

ALL. B

Decreto Rettore Università di Roma “La Sapienza” n. 1343/2024 del 13.06.2024

LUCA ALDEGA

Curriculum Vitae ai fini della pubblicazione

Part I – General Information

Full Name	LUCA ALDEGA
Citizenship	Italian
Spoken Languages	Italian, English

Part II – Education

Type	Year	Institution	Notes (Degree, Experience)
University graduation	2001	Università degli Studi Roma Tre - Dipartimento di Scienze Geologiche	Degree in Geological Sciences (110/110 cum laude). Dissertation on:” Caratterizzazione mineralogica e ricostruzione di storie di seppellimento delle unità geologico-strutturali comprese tra il Monte Sirino e il Monte Raparo (Basilicata, Appennino meridionale.”
PhD	2005	Università degli Studi Roma Tre - Dipartimento di Scienze Geologiche	PhD in Geodynamics. Dissertation on:” Relationships between tectonic/sedimentary burial and exhumation in the evolution of the Apennines by means of clay mineralogy.”

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
01/08/2005	30/07/2007	Università degli Studi Roma Tre - Dipartimento di Scienze Geologiche	Post-doc position (2 years) on the research project: “Carichi tettonico-sedimentari ed esumazione delle catene a pieghe e sovrascorrimenti attraverso studi di mineralogia delle argille, materia organica, tracce di fissione e inclusioni fluide.”
1/10/2007	30/09/2009	Università degli Studi Roma Tre -	Post-doc position (2 years) on the

		Dipartimento di Scienze Geologiche	research project:” Fillosilicati triottaedrici in rocce appenniniche e loro prodotti deuterici.”
01/02/2010	31/10/2010	Università degli Studi Roma Tre - Dipartimento di Scienze Geologiche	Research grant on: Ricostruzione dell’evoluzione termica del margine peri-tirrenico laziale in aree di interesse geotermico attraverso lo studio della mineralogia delle argille e della materia organica dispersa nei sedimenti.”
01/11/2010	02/09/2019	Sapienza Università di Roma - Dipartimento di Scienze della Terra	Researcher on Stratigraphic Geology and Sedimentology (SSD GEO/02)
03/09/2019	Present	Sapienza Università di Roma - Dipartimento di Scienze della Terra	Associate Professor on Stratigraphic Geology and Sedimentology (SSD GEO/02)
05/04/2017	05/04/2028	MIUR (Ministero dell’Istruzione dell’Università e della Ricerca)	National Qualification for Full Professor in sector “04/A2 Geologia Strutturale, Geologia Stratigrafica, Sedimentologia e Paleontologia”

IIIB – Other Appointments

Start	End	Institution	Position
2001	-	Ordine Nazionale dei Geologi	National Qualification as Geologist for professional activity
19/09/2003	19/12/2003	United States Geological Survey	Visiting researcher at the United State Geological Survey, Boulder, Colorado, USA
01/04/2008	31/08/2008	Accademia Nazionale dei Lincei-Royal Society	Visiting researcher with a research grant at the Department of Mineralogy, Natural History Museum, London
2011	Present	Sapienza Università di Roma - Facoltà di Scienze Matematiche, Fisiche e Naturali	Member of the Electoral Committee of the Faculty of Mathematics, Physics and Natural Sciences
2011	2016	Sapienza Università di Roma - Dipartimento di Scienze della Terra	Member of the Committee for Didactics
2013	2015	Sapienza Università di Roma	Member of the Research Committee (Macroarea A) of Sapienza University of Rome
20/03/2015	20/03/2015	Università degli Studi Roma Tre – Scuola dottorale in Geologia dell’Ambiente e delle Risorse	Member of PhD commission for the PhD school in Environmental Geology and Resources of the University of Roma TRE (XXVI

			and XXVII cycles)
11/09/2015	11/09/2015	Sapienza Università di Roma - Scuola Dottorale Vito Volterra	Member of PhD commission for the PhD school “Vito Volterra” of Sapienza University of Rome (XXVI and XXVII cycles)
2015	2018	Sapienza Università di Roma – Dipartimento di Biologia Ambientale	Board Member of the Council of Didactics (CAD) of “Scienze e Tecnologie per l'Ambiente, la Natura e il Territorio”
2015	Present	Sapienza Università di Roma – Dipartimento di Biologia Ambientale	Reference tutor for students of the Bachelor's Degree in Environmental Sciences (L-32)
2014	2021	Associazione Italiana per lo studio delle Argille - Onlus	Advisor for the Italian Association for the Study of Clays
01/01/2019	31/12/2023	Sapienza Università di Roma - Dipartimento di Scienze della Terra	Member of the Coordination Committee for the Excellence Project of the Department of Earth Science of Sapienza University of Rome (funded by MIUR)
29/05/2017	29/05/2017	Università degli Studi Roma Tre – Scuola dottorale in Scienze della Terra	Member of PhD commission for the PhD school in Earth Sciences of the University of Roma TRE (XXIX cycle)
2017	Present	Sapienza Università di Roma - Dipartimento di Scienze della Terra	Member of the Academic Board for the PhD school “Vito Volterra” of Sapienza University of Rome
2017	Present	Sapienza Università di Roma - Facoltà di Scienze Matematiche, Fisiche e Naturali	Member of the Committee on Space and Room Management of the Faculty of Mathematics, Physics and Natural Sciences
31/07/2019	09/09/2022	Sapienza Università di Roma - Scuola Dottorale Vito Volterra	Member of PhD commission for the PhD school “Vito Volterra” of Sapienza University of Rome (XXXV cycle)
2019	2022	Sapienza Università di Roma - Facoltà di Scienze Matematiche, Fisiche e Naturali	Board member of the Faculty of Mathematics, Physics and Natural Sciences
2019	2022	Sapienza Università di Roma - Dipartimento di Scienze della Terra	Board member of the Department of Earth Sciences
2020	2023	Sapienza Università di Roma – Dipartimento di Biologia Ambientale	President of the Quality Assurance Management Committee (CGAQ) for the Environmental Sciences course (L-32)
2022	2023	Sapienza Università di Roma - Facoltà di Scienze Matematiche, Fisiche e Naturali	Member of the Committee for Faculty Regulations
2023	Present	Sapienza Università di Roma	Member of the Research

Committee (Macroarea A) of
Sapienza University of Rome

Part IV – Specialistic Courses

Start	End	Institution	Position
16/09/2002	19/09/2002	Università degli studi di Perugia	School on Structural Geology “G. Pialli” – I edition. Topic: “Geometrical and kinematics reconstruction methods applied in structural geology”. Teachers: C. Kluth and J.V. Keller of the Structural Geology Team of the Chevron Petroleum Technology Company
25/06/2003	25/06/2003	Università degli studi di Modena e Reggio Emilia	Workshop on: Quantitative X-Ray Diffraction Analysis Topic: “Quantitative analysis of multiphase materials by Rietveld method”. Lecturer: Prof. A. Gualtieri
05/06/2003	06/06/2003	Università degli Studi di Pavia - Dipartimento di Scienze della Terra	Workshop on: The record of thermal history in sedimentary successions: short course on methods and examples from the Italian region. Topic: optical analysis of organic matter, fluid inclusions, apatite fission track and clay mineralogy.
30/08/2004	04/09/2004	University of Vienna	6th EMU Summer School on Spectroscopic Methods in Mineralogy tenuta presso l’Institute of Mineralogy and Crystallography. Topic: Optical, infrared, Raman, Mössbauer, NMR and XAS spectroscopy
07/09/2004	10/09/2004	Istituto di Metodologie per l’analisi Ambientale del CNR di Tito scalo (PZ)	VII Corso di Formazione AIPEA Topic: X-ray diffraction and SEM analysis of clay minerals: Theory and applications.
10/07/2006	12/07/2006	Università degli Studi di Modena e Reggio Emilia	“Corso teorico-pratico: Metodologie analitiche avanzate in campo mineralogico-petrografico. Analisi diffrattometriche avanzate per polveri: l’analisi strutturale”

			Topic: Structural refinement of X-ray tracings by Rietveld method. Lecturer: Prof. A. Gualtieri
07/01/2009	13/01/2009	Università degli Studi Roma Tre	Short Course on Tectonic Geomorphology and Landscape evolution Topic: Relationships among erosion, tectonics, climate and topography through thermochronological data (apatite fission track, U-Th/He dating). Lecturer: Prof. F.J. Pazzaglia
31/05/2010	04/06/2010	Università degli Studi Roma Tre	Course on “Tectonics of sedimentary basins and continental topography” Topic: kinematic models for extensional and compressional basins. Lecturer: Prof. S. Cloetingh
02/10/2013	04/10/2013	Università degli Studi Roma Tre	Course on “Geodynamics of Mountain Building and its Interaction with Climate” Topic: Mediterranean geodynamics, processes of mountain building. Lecturer: Prof. P. Molnar
12/05/2016	16/05/2016	Sapienza Università di Roma	Corso di formazione generale per lavoratori – modulo generale 4 ore ai sensi del D.lgs. 81/08 e s.m.i. art. 37 accordo Stato-Regioni
24/12/2023	24/12/2023	Sapienza Università di Roma	Corso di formazione generale salute e sicurezza sul lavoro per lavoratori e equiparati – modulo generale 4 ore erogato in modalità e-learning ai sensi del D.lgs. 81/08 e s.m.i. art. 37 accordo Stato-Regioni

Part V – Teaching experience

Year	Institution	Lecture/Course
2000-2004	Università degli Studi Roma TRE	Teaching assistance in room and in the field on the macroscopic identification of rocks and interpretations of geological maps for

		the course Geologia II (SSD GEO/02 – Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. A. Praturlon)
2000-2007	Università degli Studi Roma TRE	Teaching assistance on interpretations of geological maps and drawing cross sections for the course Laboratorio di Cartografia Geologica (SSD GEO/03 – Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. S. Corrado)
2001-2002	Università degli Studi Roma TRE	Teaching assistance on stratigraphy of sedimentary successions for the course Geologia V (SSD GEO/02 – Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. M. Parotto)
2002-2010	Università degli Studi Roma TRE	Field assistance for the Campo di Introduzione al Terreno (SSD GEO/03 – Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. S. Corrado)
2002-2004	Università degli Studi Roma TRE	Teaching assistance in room and in the field on the macroscopic identification of rocks for the course Geologia I (SSD GEO/02 – Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. A. Praturlon)
2004-2005	Università degli Studi Roma TRE	Teaching assistance on the macroscopic identification of rocks for the course Introduzione alla Geologia (SSD GEO/02 – Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. A. Praturlon)
25/09/2006-28/09/2006	Istituto di Metodologie per l'Analisi Ambientale, C.N.R. - Tito Scalo, Potenza	Invited speaker and lecturer of the “VIII Corso di Formazione AISA - Analisi di sedimenti argillosi per diffrazione di raggi X: metodi di preparazione campioni, analisi qualitativa e quantitativa” (16 hours)
2006-2007	Università degli Studi Roma TRE	Teaching assistance for the course Introduzione alla Geologia (SSD GEO/03 – Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. M. Mattei)
2007-2009	Università degli Studi Roma TRE	Lecturer of the advanced course "Geologia Dell'Appennino" for the PhD in Geodynamics at the Department of Geological Sciences of Roma Tre University. Topic: Thermal reconstructions and burial of sedimentary successions by paleothermal and thermochronological indicators. (PhD Coordinator: Prof. D. Cosentino)
2009-2010	Università degli Studi Roma TRE	Teaching assistance on macroscopic identification of sedimentary rocks and drawing cross sections for the course Laboratorio di Geologia (SSD GEO/03 –

		Corso di Laurea in Scienze Geologiche) - Main Lecturer: Prof. S. Corrado)
2009-2010	Università degli Studi Roma TRE	Lecturer of the advanced course "Geologia Dell'Appennino" for the doctoral school in Geology of the Environment and Resources at the Department of Geological Sciences of Roma Tre University. Topic: Thermal reconstructions and burial of sedimentary successions by paleothermal and thermochronological indicators. (PhD Coordinator: Prof. D. Cosentino)
2011-2015	Sapienza Università di Roma	Teaching assistance in the field for the course "Tirocinio di rilevamento geologico" (Cod.: AAF1390, SSD GEO/02, 6 CFU – Laurea Triennale in Scienze Geologiche, L-34) Main Lecturer: Prof. M. Santantonio
2011-2015	Sapienza Università di Roma	Teaching assistance in the field for the course "Fondamenti di rilevamento geologico" (SSD GEO/02, 6 CFU – Laurea Triennale in Scienze Geologiche, L-34) Main Lecturer: Prof. M. Santantonio
2012	Sapienza Università di Roma	Seminars on the endogenous and exogenous dynamics of Earth for high school students of Lazio for the national selection of the 2012 Earth Sciences Olympics.
15/10/2013-17/10/2013	Università degli studi di Perugia – Dipartimento di Scienze della Terra	Lecturer of course for PhD students "Tools for thermal and thermochronological study of sedimentary basins: from data to modeling"
2013-2014	Sapienza Università di Roma- Nokia-Here Group	Lecturer of Educational activities (AAF) "Cartografia digitale: esperienze di raccolta dati sul terreno e costruzione di mappe" in collaboration with the Nokia-Here Group (SSD GEO/02, 3 CFU – Laurea Triennale in Scienze Ambientali, L-32)
2013-2014	Sapienza Università di Roma	Teaching assistance in the field for the course "Geologia e Rilevamento del Vulcanico" (SSD GEO/08, 6CFU – Laurea Magistrale in Geologia di esplorazione, LM-74) Main Lecturer: Prof. D. Palladino
2014-2016	Sapienza Università di Roma- Nokia-Here Group	Lecturer of Educational activities (AAF) "La Mappa dell'era moderna, Map Creator: esperienze di cartografia digitale" in collaboration with the Nokia-Here Group (SSD GEO/02, 4 CFU – Laurea Triennale in Scienze Ambientali, L-32)
2014-2018	Sapienza Università di Roma	Lectures on "Lettura ed interpretazione di carte geologiche" (Master II livello in Analisi e mitigazione del rischio idrogeologico. Cod. 15310)

2011- Present	Sapienza Università di Roma	Main Lecturer of the course “Geologia e Dinamica sedimentaria” (Cod.: 1016327, SSD GEO/02, 9 CFU – Laurea Triennale in Scienze Ambientali, L-32)
2016- Present	Sapienza Università di Roma	Lecturer of the course “Tirocinio di rilevamento geologico ” (Cod.: AAF1390, SSD GEO/02, 3 CFU – Laurea Triennale in Scienze Geologiche, L-34)
2021- Present	Sapienza Università di Roma	Main Lecturer of the course “Introduzione alle Scienze della Terra” 3 CFU (within Geografia Cartografia e Introduzione alle Scienze della Terra (Cod.: 30048, SSD GEO/02, GEO/04, 9 CFU – Laurea Triennale in Scienze Naturali, L-32)
2010- Present	Università degli Studi Roma TRE	Cotutor of 4 PhD thesis: Dr. Lea Di Paolo (XXIII cycle) “Reconstruction of burial and exhumation history of the Apenninic-Maghrebian fold-and-thrust belt in eastern Sicily by means of integrated studies of thermal and thermochronological constraints”. Dr. Chiara Caricchi (XXV cycle) - “Cenozoic geometric and kinematic evolution of the Tuscan-Umbrian tectono-stratigraphic units (Northern Apennines): paleothermometric and paleomagnetic constraints”. Dr. Andrea Schito (XXVIII cycle) - “New integrated approach to assess thermal maturity of sedimentary successions by means of organic and inorganic indicators”. Dr. Martina Balestra (XXXI cycle) – “3D thermal-kinematic modelling on the Sicilian fold-and-thrust-belt”.
2016- Present	Sapienza Università di Roma	Tutor of 2 PhD thesis: <i>Dr. Cobra Mahdikhani Sarvejahani</i> (XXXII cycle) – “Burial evolution of sedimentary successions in the Lorestan Basin (NW of Zagros Folded Belt, Iran)”. <i>Dr. Vincenzo Moretto</i> (XXXVIII cycle) – “Reconstructing Fluid Circulation and Temperature evolution in Fault Zones in Space and Time”.
2006-2016	Università degli Studi Roma TRE	Cotutor of 14 Bachelor and Master Thesis
2013- Present	Sapienza Università di Roma	Tutor of 13 Bachelor and 3 Master Thesis
2013- Present	Sapienza Università di Roma	Tutor of 3 Post-doc: <i>Dr. Simone Fabbi</i> – “Evoluzione termica, termocronologica e stratigrafico-strutturale di successioni sedimentarie e di basso grado metamorfico dell’Arco Calabro Peloritano”. <i>Dr. Luca Smeraglia</i> - “Vincoli paleotermici e geochimici in zone di faglia”. <i>Dr. Barbara</i>

Marchesini – “Reconstruction of paleofluid evolution and thermal history across the Val d’Agri Basin”

Part VI - Society memberships, Editorial Boards, Awards and Honors

Year	Title
2005	Co-editor of the special volume n° 10 - Atti Ticinensi di Scienze della Terra. “CORRADO S., DI GIULIO A., ZATTIN M. & ALDEGA L. (2005) The record of thermal history in sedimentary successions: Short Course on methods and examples, 126 pp. ISSN: 1724-0077.
2007	“ Luigi Dell’Anna 2007 ” award - best researches developed in Clay Mineralogy by <35 years old earth scientists awarded by the Italian Association for the study of clays (AISA)
2008	Winner of the Accademia Nazionale dei Lincei-Royal Society research grant in Mineralogy and applications
2008-2014	Organizer of the European Association of Geoscientists and Engineers Student Lecture Tour for Sapienza University (2011-2014) and Roma Tre University (2008-2012). Lecturer: Isabelle Moretti (IFP); Sylvie Grimaud (Total), Isabelle Séjourné, Salvatore Lombardi, David Roberts.
2009-2012	Member of the Visioning Team of the Young Earth Scientists Network (YES Network)
25/10/2009-28/10/2009	Organizer of the roundtable “Scientific challenges for the future geoscience workforce: Natural Resources and Energy Sustainability” at the 1 st World Young Earth Scientists Congress – Young Earth-Scientists for Society, Beijing, China
2010	“ Giorgio Dal Piaz 2009-2010 ” award – best researches developed in Geology and Paleontology by <35 years old earth scientists awarded by the Italian Geological Society (SGI)
15/10/2012 19/10/2012	Organizer of the event “Terra e Scienza alla Sapienza” within the framework of the week of Planet Earth in the Earth Sciences Department of Sapienza University of Rome
2013	“ Secondo Franchi 2013 ” award - best paper published in the Italian Journal of Geosciences in 2013 awarded by the Italian Geological Society (SGI). Cantarelli V., Aldega L., Corrado S., Invernizzi C. & Casas-Sainz A. (2013). Thermal history of the Aragón-Béarn basin (Late Paleozoic, western Pyrenees, Spain); insights into basin tectonic evolution. Italian Journal of Geosciences, 132 (3), 443-462
2014	Honors for the excellent university teaching (1st edition) awarded by the Faculty of Mathematics, Physics and Natural Sciences of Sapienza University of Rome for the 2012/2013 academic year
2014	Evaluator of SIR projects for Ministero dell’Istruzione, dell’Università e della Ricerca (MIUR)
2014	Member of the board of auditors for the Italian Geological Society (SGI)
2014-2021	Advisor for the Italian Association for the Study of Clays – ONLUS
2015	Recognized Reviewer for Tectonophysics
2015	Project evaluator for Università degli Studi della Calabria (post doc positions)
2016	Outstanding Reviewer for Marine and Petroleum Geology
2016	Reviewer for the VQR 2011-2014 products for the Agenzia Nazionale per la

	Valutazione del sistema Universitario e della Ricerca (ANVUR)
2016	Outstanding Reviewer for Journal of Petroleum Science and Engineering
2016	Recognized Reviewer for Journal of Asian Earth Sciences
2016	Best Poster award at the 88 th Congresso della Società Geologica Italiana, Napoli. Balestra M., Martizzi P., Corrado S., Aldega L. , Gasparo Morticelli M., Sulli A. & Interbartolo F. (2016). Burial and thermal evolution of the Sicilian fold-and-thrust belt: preliminary results from the Scillato wedge top basin (central-northern Sicily, Italy). Rendiconti online della Società Geologica Italiana, Suppl. n. 1 Vol. 40, 515
2016	Best Poster award at the 88 th Congresso della Società Geologica Italiana, Napoli. Smeraglia L., Aldega L. , Billi A., Carminati E. & Doglioni C. (2016). Phyllosilicate occurrence along extensional faults in carbonate rocks and implications for seismic slip propagation: case studies from the central Apennines, Italy. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 Vol. 40, 48
2017	Recognized Reviewer for Journal of Natural Gas Science and Engineering
2017	Outstanding Reviewer for Marine and Petroleum Geology
2018	Honors for the excellent university teaching (4th edition) awarded by the Faculty of Mathematics, Physics and Natural Sciences of Sapienza University of Rome for the 2017/2018 academic year
2018	“Secondo Franchi 2016” award - best paper published in the Italian Journal of Geosciences in 2016 awarded by the Italian Geological Society (SGI). Caricchi C., Corrado S., Di Paolo L., Aldega L. & Grigo D. (2016). Thermal maturity of Silurian deposits in the Baltic Syncline (on-shore Polish Baltic basin): contribution to unconventional resources assessment. Italian Journal of Geosciences, 135 (3), 383-393.
2021	Best paper award 2021 published in Journal of Structural Geology - Curzi M., Aldega L. , Bernasconi S., Berra F., Billi A., Boschi C., Franchini S., Van der Lelij R., Viola G. & Carminati E. (2020). Architecture and evolution of an extensionally-inverted thrust (Mt. Tancia Thrust, Central Apennines): geological, structural, geochemical, and K-Ar geochronological constraints. Journal of Structural Geology, 136, 104059
2021	Project evaluator for the “Programma per Giovani Ricercatori - Rita Levi Montalcini 2019”
2022	Best paper award 2022 published in Journal of Structural Geology - Zuccari C., Viola G., Curzi, M., Aldega L. , Vignaroli G. (2022) - What steers the “folding to faulting” transition in carbonate-dominated seismic fold-and-thrust belts? New insights from the Eastern Southern Alps (Northern Italy). Journal of Structural Geology, 157, 104560
2006-Present	Member of the Associazione Italiana per lo Studio delle Argille – ONLUS
2010-Present	Member of the Società Geologica Italiana (SGI)
2014-Present	Member of the GEOSSED Association
2014-Present	Member of the gruppo italiano di geologia strutturale (GIGS)
2010-Present	Reviewer for Earth and Planetary Science Letters, Scientific Reports, Tectonophysics, Marine and Petroleum Geology, Solid Earth, Journal of Structural Geology, Global and Planetary Change, Frontiers in Earth Science, Journal of

	Petroleum Science and Engineering, Journal of Geodynamics, Clays and Clay Minerals, International Journal of Coal Geology, Energies, Minerals, Catena, Italian Journal of Geosciences, Journal of Asian Earth Sciences, Arabian Journal of Geosciences, Quaternary Science Reviews, Journal of Natural Gas Science and Engineering, European Journal of Soil Science, The Open Petroleum Engineering Journal, Geosciences, Periodico di Mineralogia, Acta Geochimica, Computers and Geosciences, Sustainability, Water, Italian Journal of Engineering Geology and Environment
2021	Reviewer for the VQR 2015-2019 products for the Agenzia Nazionale per la Valutazione del sistema Universitario e della Ricerca (ANVUR)
2021	Project evaluator for Università degli Studi dell'Insubria (Junior and Senior post doc positions)
2021-Present	Associate Editor for Minerals
2022-Present	Associate Editor for Frontiers in Earth Science – Division of Structural Geology and Tectonics
2024-Present	Project evaluator for the Swiss National Science Foundation

Part VII - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value and Role
2004	Metodologie integrate (maturità della materia organica, inclusioni fluide, mineralogia e geochimica delle argille, tracce di fissione ed età U-Th/He) per la ricostruzione dei carichi tettonico/sedimentari e dell'esumazione in Appennino meridionale (confine calabro-lucano) e in Sicilia orientale (catena sedimentaria a pieghe e sovrascorrimenti) (National coordinator: Prof. S. Corrado)	PRIN 2004	Investigator (Post doc)
2006	Le miche: ordinamento cationico, popolazione anionica e loro controllo da parte dei fattori petrologici (National coordinator: Prof. M.F. Brigatti)	PRIN 2006	Investigator (Post doc)
2009	Modello geologico 4D di un sistema estensionale guidato da una faglia diretta a basso angolo da dati di superficie e di sottosuolo: la faglia Altotiberina, Appennino settentrionale. (National coordinator: Prof. M. Barchi)	PRIN 2009	Investigator (external collaborator)
2010	La subduzione e l'esumazione di litosfera continentale: i suoi effetti sulla struttura degli orogeni, sull'ambiente e sul clima. (National coordinator: Prof. R. Carosi)	PRIN 2010-2011	Investigator
2010	Esplorazione e utilizzo di risorse geotermiche di media e bassa entalpia in area sub-andina per lo sviluppo energetico sostenibile delle città delle province di Jujuy e Salta. (P.I.: Prof. C.	IV Programma di Ricerca CUIA 2010-2012	Investigator

	Invernizzi)		
2011	Evoluzione termica, termocronologica e stratigrafico-strutturale di successioni sedimentarie e di basso grado metamorfico dell'Arco Calabro-Peloritano: relazione tra seppellimento ed esumazione nella quantificazione dei tassi dei movimenti verticali di un orogene.	Progetto di Ateneo 2011	8.000 euro (Principal investigator)
2011	Control of Cambrian salt on the geometry and strain of fault-related anticlines in the Zagros fold-and-thrust belt. (P.I.: Prof. E. Carminati).	DARIUS PROGRAMME 2011	9.000 euro (investigator)
2012	Fratturazione e stato termico in reservoir esposti, analoghi a quelli sepolti in Pianura Padana e Adriatico. (P.I.: Prof. E. Carminati)	Progetto di Ateneo 2012	12.000 euro (investigator)
2012	Thermal and structural evolution of the SW Zagros from internal to external zones. (P.I.: Prof. E. Carminati)	DARIUS PROGRAMME 2012	10.000 euro (investigator)
2013	Evoluzione termica, termocronologica e stratigrafico-strutturale di successioni sedimentarie e di basso grado metamorfico dell'Arco Calabro Peloritano.	Progetti under 40 from Faculty of Mathematics, Physics and Natural Sciences of Sapienza Università di Roma DR n. 4456 - 10.12.2012	19.367 euro (Principal investigator)
2013	Potenziamento di metodologie integrate (analisi ottica della materia organica, mineralogia delle argille, inclusioni fluide, analisi di fratturazione) per la prospezione di reservoir geotermici e petroliferi	Progetto di Ateneo 2013	13.500 euro (Principal investigator)
2014	Sviluppo sostenibile dei sistemi geotermici associati ai sistemi vulcanici della Puna nelle Province di Salta e Jujuy” - ARGENTINA. (Coordinator: Prof. G. Giordano).	Ministero degli Affari Esteri, Direzione Generale per la Promozione del Sistema Paese - assegnazione 2014	25.000 euro (investigator)
2015	Sviluppo sostenibile dei sistemi geotermici associati ai sistemi vulcanici della Puna nelle Province di Salta e Jujuy” - ARGENTINA. (Coordinator: Prof. G. Giordano).	Ministero degli Affari Esteri, Direzione Generale per la Promozione del Sistema Paese – assegnazione 2015	20.000 euro (investigator)
2016	The subduction and exhumation of the continental lithosphere; their effects on the structure and evolution of the orogens. (Coordinator: Prof. C. Doglioni).	Prin 2015	301.000 euro (investigator)
2016	Aplicación de métodos magnéticos (ASM y Paleomagnetismo) al estudio de las rocas de falla-MAGFAULT (Coordinator: Prof. Teresa Román	Plan Estatal de Investigación Científica y Técnica	Investigator

	Berdiel)	y de Innovación 2013-2016	
2016	Ricostruzione dei carichi sedimentari e/o tettonici ed esumazione del sistema orogenico Alpino-Himalayano attraverso l'analisi dell'evoluzione termica e termocronologica dei sedimenti.	Progetto di Ateneo 2016	31.600 euro (Principal investigator)
2017	Beneficiario del Finanziamento Annuale Individuale delle Attività Base di Ricerca	FFABR 2017	3.000 (Principal investigator)
2017	Faults, fractures and fluids in carbonate rocks. (P.I. Prof. E. Carminati)	Progetto di Ateneo 2017	30.000 euro (Investigator)
2018	Deciphering the timing of deformation of polyphase faults in fold-and-thrust belts: Insights from K-Ar dating of clay gouges and U-Pb of calcite veins	Progetto di Ateneo 2018	13.000 euro (Principal investigator)
2019	Obduction of ophiolites in the Alpine-Himalayan belt: a regional comparison via a multidisciplinary approach (P.I. Prof. E. Carminati)	Progetto di Ateneo 2019	15.000 euro (Investigator)
2020	Constraining rates and mechanisms of vertical movements of orogenic belts in space and through time by thermal and geochronological evolution of sedimentary successions and fault rocks.	Progetto di Ateneo 2020	50.000 euro (Principal investigator)
2021	Circolazione dei fluidi e comportamento meccanico delle zone di faglia della Val d'Agri (Appennino Meridionale): implicazioni sulla sismicità indotta e sull'inquinamento delle falde. (P.I. Prof. E. Carminati)	Progetto di Ateneo 2021	14.800 euro (Investigator)
2022	Fault and fracture network in carbonate reservoir analogues: Scaling laws and controlling factors for the green transition (P.I. Dr. M. Mercuri)	Progetto di Ateneo 2022	11.000 euro (Investigator)
2022	Fault Architecture in Space and Time – “FAST” (National Coordinator – Prof. G. Viola)	PRIN 2020	824.698 euro (principal investigator of research unit)
2024	Natural Hydrogen for Energy trAnsiTion (NHEAT) (National Coordinator – Dr. C. Boschi)	PRIN 2022 PNRR	239.955 euro (Investigator)

Part VIII –National and International Agreements, Assignments and Collaborations

Year	Brief description	Role
14/09/2001 31/10/2001	Assignment for research activity on interpretation of X-ray tracings from the clay fraction of sediments exposed in the Marcellina Sinkhole as a part of the scientific collaboration between Provincia di Roma and Roma TRE university.	Participant
02/01/2002	Contract for research activities on thermal maturity of	Participant

30/04/2022	sediments by X-ray diffraction of pelites and organic matter optical analysis of sandstones of the Lagonegro succession (Basilicata). Agreement with Roma TRE University.	
01/10/2000 31/01/2007	Consultant for “Laboratorio di Igiene Industriale del Centro Diagnostico (via Pigafetta 1 Roma)” for the research activities on asbestos and free crystalline silica in sedimentary rocks and building materials by X-ray diffraction, phase contrast microscopy (MOCF), and ionic chromatography.	Responsible
01/07/2006 31/12/2006	Agreement with Laboratori Chimici riuniti s.r.l. for the project "Standardizzazione delle procedure di analisi della silice libera cristallina in diffrazione a raggi X"	Responsible
01/01/2006 30/06/2006	Agreement with Laboratori Chimici riuniti s.r.l. for the project "Messa a punto di procedure standard di calibrazione per l'analisi quantitativa in diffrazione a raggi X di materiali contenenti asbesto"	Responsible
20/10/2006 03/11/2006	Assignment for research activity on fault zones in Calabria by X-ray analysis of whole-rock composition of fault rocks, gouge and host rocks as a part of research agreement between Astaldi s.p.a. and Roma Tre University (Coordinator: Prof. R. Funicello)	Participant
01/09/2009 31/03/2010	Assignment for research activity on micropaleontological, mineralogical and magnetostratigraphic analyses of S-1 (Sassa) and S-3 (Roio Piano) wells in the L'Aquila basin as a part of research agreement between Università degli Studi dell'Aquila and Roma Tre University (Coordinator: Prof. A. Mottana)	Participant
01/11/2009 31/11/2009	Assignment for research activity on the thermal evolution of sediments and database build-up with thermal maturity and thermochronological data from the Apennines. Agreement with Roma TRE University.	Participant
01/11/2009 31/11/2009	Assignment for research activity on X-ray quantitative analysis of airborne dust on silver supports for the investigation of silica polymorphs. Agreement with Roma TRE University.	Participant
01/01/2012 31/12/2014	Assignment for research activity on the project “New rationale and new methodologies for the quantitative evaluation of the thermal maturity of organic matter dispersed in sediments and for thermal evolution of sedimentary successions” as a part of the research contract between ENI spa and Roma TRE University.	Participant
26/06/2014 21/07/2014	Assignment for research activity on characterization of thermal maturity of sediments by X-ray diffraction (Rep. n. 23. Prot. n. 859). Agreement with Roma TRE University.	Responsible

Part IX – Research Activities

Keywords	Brief Description
Basin Analysis	Reconstruction of the thermal evolution and burial-exhumation history of sedimentary basins and large sectors of the Apennine-Maghrebide chain,
Burial-exhumation	

history	the Pyrenean chain, the Zagros and the Oman Mountains by means of paleothermal indicators derived from organic matter optical analysis, X-ray diffraction of fine grained rocks, microthermometry of fluid inclusions, thermochronological data (apatite fission track, U-Th/He) and thermal modelling. This research line represents a fertile field where stratigraphic and structural investigations in the field are integrated with laboratory analytical techniques and numerical modelling to constrain the burial and exhumation history of key sectors of fold-and-thrust belts, to quantify the maximum sedimentary/tectonic burial experienced by sedimentary successions, modes and magnitude of exhumation and erosion rates. In the end, this research line has important implications for the calibration of thermal maturity parameters in diagenesis, the kinematic reconstructions of fold-and-thrust belts and geodynamic models, and have many application-oriented potentialities mainly for industrial purposes, concerning energy resources (renewable and not renewable) exploration.
Thermal modelling	
Paleothermal indicators	
Low temperature thermochronology	

Thermal evolution of faulted successions	Time-space and thermal evolution of faulted successions and orogen-scale fault zones by X-ray diffraction, stable isotopes (H, C, O), and radiometric techniques (K-Ar and U-Pb) with the aim to understand the cause/effect mechanisms among fault kinematics, temperature of (de)formation, clay minerals growth processes and fluid circulation in the crust. The reconstruction of clay minerals thermal evolution (t, T) in fault zones due to shear heating, depth of deformation or crystallization by fluids and a better understanding on the origin of fluid circulating within fault zones have important implications for the definition of the diagenetic/deformation history of fine-grained rocks (pelites, sandstones), timing of faulting and fluid flow and positive spillover for seismic hazard analysis and fault hydraulic properties.
X-ray diffraction	
Stable isotopes (H, C, O)	
U-Pb dating	
K-Ar dating	

Thermal evolution of cap rocks	Integrated methods (stratigraphic and structural geology, fluid inclusion, clay mineralogy, organic matter optical analysis) for the definition of paleo-geothermal systems at low- and mid-enthalpy in the peri-Tyrrhenean margin and north-western Argentina. This research line was born with the idea to borrow classical thermal maturity techniques generally applied for hydrocarbon exploration purposes to geothermal exploration contexts. Combining paleothermal indicators (e.g., mixed layers illite-smectite, vitrinite reflectance) from hydrothermally altered cap rocks with structural analysis of fracturing distribution allows to trace the paths of hot fluid circulation at shallow depths, to evaluate the extent of fluid-rock interaction and the cap rock efficiency with the ultimate purpose of drawing up guideline and/or protocols that can reduce the risk associated with geothermal exploration.
X-ray diffraction	
Fluid inclusion	
Organic matter optical analysis	
Geothermal systems	

Part X – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	94	Scopus	2003	2024
Papers [national]	17	Scopus	2003	2013
Books [scientific]	1	Scopus	2011	2011

Total Impact factor	302.995 (Web of science)
Average impact Factor	3.223 (Web of science)
Total Citations	2024 (Scopus)
Average Citations per Product	18.73 (Web of science)
Hirsch (H) index	30 (Scopus)
Normalized H index*	1.36

*H index divided by the academic seniority.

Part XI– Selected Publications

1. CURZI M., ALDEGA L., BILLI A., BOSCHI C., CARMINATI E., VIGNAROLI G., VIOLA G., BERNASCONI S.M. (2024). *Fossil chemical-physical (dis)equilibria between paleofluids and host rocks and their relationship to the seismic cycle and earthquakes*. Earth-Science Reviews, **254**, 104801. **(journal impact factor 10.8, citations 0)**
2. TAVANI S., SMERAGLIA L., FABBI S., ALDEGA L., SABBATINO M., CARDELLO G.L., MARESCA A., SCHIRRIPIA SPAGNOLO G., KYLANDER-CLARK A., BILLI A., BERNASCONI S.M., CARMINATI E. (2023). *Timing, thrusting mode, and negative inversion along the Circeo thrust, Apennines, Italy: how the accretion-to-extension transition operated during slab rollback*. Tectonics, **42** (6), e2022TC007679. **(journal impact factor 3.3 in 2023, citations 7)**
3. ALDEGA L., CARMINATI E., SCHARF A. & MATTERN F. (2021). *Thermal maturity of the Hawasina units and origin of the Batinah Mélange (Oman Mountains): Insights from clay minerals*. Marine and Petroleum Geology, **133**, 105316. **(journal impact factor 5.361 in 2021, citations 17)**
4. CORRADO S., SCHITO A., ROMANO C., GRIGO D., POE B.T., ALDEGA L., CARICCHI C., DI PAOLO L. & ZATTIN M. (2020). *An integrated platform for thermal maturity assessment of polyphase, long-lasting sedimentary basins, from classical to brand-new thermal parameters and models: An example from the on-shore Baltic Basin (Poland)*. Marine and Petroleum Geology, **122**, 104547. **(journal impact factor 4.348 in 2020, citations 18)**
5. CURZI M., ALDEGA L., BERNASCONI S., BERRA F., BILLI A., BOSCHI C., FRANCHINI S., VAN DER LELIJ R., VIOLA G. & CARMINATI E. (2020). *Architecture and evolution of an extensionally-inverted thrust (Mt. Tancia Thrust, Central Apennines): geological, structural, geochemical, and K-Ar geochronological constraints*. Journal of Structural Geology, **136**, 104059. **(journal impact factor 3.571 in 2020, citations 41)**
6. ALDEGA L., VIOLA G., CASAS-SAINZ A., MARCÉN M., ROMÁN-BERDIEL T. & VAN DER LELIJ R. (2019). *Unraveling multiple thermo-tectonic events accommodated by crustal-scale faults in northern Iberia, Spain: Insights from K-Ar dating of clay gouges*. Tectonics, **38** (10), 3629-3651. doi: 10.1029/2019TC005585. **(journal impact factor 3.543 in 2019, citations 33)**.
7. CORRADO S., ALDEGA L., PERRI F., CRITELLI S., MUTO F., SCHITO A. & TRIPODI V. (2019). *Detecting syn-orogenic extension and sediment provenance of the Cilento wedge top basin (southern Apennines, Italy): Mineralogy and geochemistry of fine-grained sediments and petrography of dispersed organic matter*. Tectonophysics, **750**, 404-418. **(journal impact factor 3.048 in 2019, citations 50)**
8. BALESTRA M., CORRADO S., ALDEGA L., GASPARO MORTICELLI M., SULLI A., RUDKIEWICZ J.-L. & SASSI W. (2019). *Thermal and structural modeling of the Scillato wedge-top basin source-to-sink system: Insights into the Sicilian fold-and-thrust belt evolution (Italy)*. Geological Society of American Bulletin, **131** (11/12), 1763–1782. doi: 10.1130/B35078.1 **(journal impact factor 3.558 in 2019, citations 31)**

9. SMERAGLIA L., ALDEGA L., BILLI A., CARMINATI E., DI FIORE F., GERDES A., ALBERT R., ROSSETTI F. & VIGNAROLI G. (2019). *Development of an intrawedge tectonic mélangé by out-of-sequence thrusting, buttressing, and intraformational rheological contrast, Mt. Massico ridge, Apennines, Italy*. *Tectonics*, **38** (4), 1223–1249. **(journal impact factor 3.543 in 2019, citations 26)**
10. ALDEGA L., BIGI S., CARMINATI E., TRIPPETTA F., CORRADO S. & KAVOOSI M.A. (2018). *The Zagros fold-and-thrust belt in the Fars province (Iran): II. Thermal evolution*. *Marine and Petroleum Geology*, **93**, 376-390. **(journal impact factor 3.538 in 2018, citations 34)**
11. SCHITO A., ANDREUCCI B., ALDEGA L., CORRADO S., DI PAOLO L., ZATTIN M., SZANIAWSKI R., JANKOWSKI, L. & MAZZOLI, S. (2018). *Burial and exhumation of the western border of the Ukrainian Shield (Podolia): a multi-disciplinary approach*. *Basin Research*, **30**, 532-549. **(journal impact factor 3.538 in 2018, citations 26)**
12. SCHITO A., CORRADO S., TROLESE M., ALDEGA L., CARICCHI C., CIRILLI S., GRIGO D., GUEDES A., ROMANO C., SPINA A. & VALENTIM B. (2017). *Assessment of thermal evolution of Paleozoic successions of the Holy Cross Mountains (Poland)*. *Marine and Petroleum Geology*, **80**, 112-132. **(journal impact factor 3.281 in 2017, citations 48)**
13. ALDEGA L., CARMINATI E., SCHARF A., MATTERN F. & AL-WARDI M. (2017). *Estimating original thickness and extent of the Semail Ophiolite in the eastern Oman Mountains by paleothermal indicators*. *Marine and Petroleum Geology*, **84**, 18-33. **(journal impact factor 3.281 in 2017, citations 34)**
14. SCHITO A., CORRADO S., ALDEGA L. & GRIGO D. (2016). *Overcoming pitfalls of vitrinite reflectance measurements in the assessment of thermal maturity: the case history of the Lower Congo Basin*. *Marine and Petroleum Geology*, **74**, 59-70. **(journal impact factor 2.888 in 2016, citations 37)**
15. CARICCHI C., ALDEGA L. & CORRADO S. (2015). *Reconstruction of maximum burial along the Northern Apennines thrust wedge (Italy) by indicators of thermal exposure and modeling*. *Geological Society of American Bulletin*, **127** (3-4), 428-442. doi:10.1130/B30947.1 **(journal impact factor 4.332 in 2015, citations 35)**
16. ALDEGA L., CORRADO S., CARMINATI E., SHABAN A. & SHERKATI S. (2014). *Thermal evolution of the Kuh-e-Asmari and Sim anticlines in the Zagros fold-and-thrust belt: implications for hydrocarbon generation*. *Marine and Petroleum Geology*, **57**, 1-13. **(journal impact factor 2.639 in 2014, citations 34)**

Total publications on International peer-reviewed journals

1. CURZI M., ALDEGA L., BILLI A., BOSCHI C., CARMINATI E., VIGNAROLI G., VIOLA G. & BERNASCONI S.M. (2024). *Fossil chemical-physical (dis)equilibria between paleofluids and host rocks and their relationship to the seismic cycle and earthquakes*. *Earth-Science Reviews*, **254**, 104801.
2. INNAMORATI G., FABBI S., PIGNATTI J., ALDEGA L. & SANTANTONIO M. (2024). *Early Eocene tectono-sedimentary evolution of northern Calabria: hints from the Paludi formation (Sila Greca)*. *Italian Journal of Geosciences*, **143** (1), 130-154.
3. CURZI M., VIOLA G., ZUCCARI C., ALDEGA L., BILLI A., VAN DER LELIJ R., KYLANDER-CLARK A. & VIGNAROLI G. (2024). *Tectonic evolution of the Eastern Southern Alps (Italy): A reappraisal from new structural data and geochronological constraints*. *Tectonics*, **43**, e2023TC008013.
4. MAZZONI C., PIACENTINI A., DI BELLA L., ALDEGA L., PERINELLI C., CONTE A.M., INGRASSIA M., RUSPANDINI T., BONFANTI A., CARABA B., FALESE F.G., CHIOCCI F.L. & FAZI S. (2024). *Carbonate precipitation and phosphate trapping by microbialite isolates from an alkaline insular lake (Bagno dell'Acqua, Pantelleria Island, Italy)*. *Frontiers in Microbiology*, **15**, 1391968. doi: 10.3389/fmicb.2024.1391968.
5. CURZI M., CIPRIANI A., ALDEGA L., BILLI A., CARMINATI E., VAN DER LELIJ R., VIGNAROLI G. & VIOLA G. (2024). *Architecture and permeability structure of the Sibillini Mts. Thrust and influence*

upon recent, extension-related seismicity in the central Apennines (Italy) through fault-valve behavior. Geological Society of American Bulletin, **136** (1-2), 3-26.

6. SCHIRRIPA SPAGNOLO G., AGOSTA F., **ALDEGA L.**, PROSSER G., SMERAGLIA L., TAVANI S., LOOSER N., GUILLONG M., BERNASCONI S.M., BILLI A. & CARMINATI E. (2024). *Structural architecture and maturity of Val d'Agri faults, Italy: Inferences from natural and induced seismicity*. Journal of Structural Geology, **180**, 105084.
7. MARCHESINI B., TAVANI S., MERCURI M., MONDILLO N., PIZZATI M., BALSAMO F., **ALDEGA L.** & CARMINATI C. (2024). *Structural control on the alteration and fluid flow in the lithocap of the Allumiere-Tolfa epithermal system*. Journal of Structural Geology, **179**, 105035.
8. BOCCACCINI F., RICCUCCI C., MESSINA E., PASCUCCI M., BOSI F., **ALDEGA L.**, CICCOLA A., POSTORINO P., FAVERO G., INGO G.M. & DI CARLO G. (2024). *Stages of Metal Corrosion in Coastal Archaeological Sites: Effects of Chemical Composition in Silver and Copper Alloys*. Materials, **17**, 442. <https://doi.org/10.3390/ma17020442>
9. VOLPE G., POZZI G., COLLETTINI C., SPAGNUOLO E., ACHTZIGER-ZUPANČIČ P., ZAPPONE A., **ALDEGA L.**, MEIER M.A., GIARDINI D. & COCCO M. (2023). *Laboratory simulation of fault reactivation by fluid injection and implications for induced seismicity at the BedrettoLab, Swiss Alps*. Tectonophysics, (862), 229987.
10. SMERAGLIA L., BERNASCONI S., MANNIELLO C., SPANOS D., PAGOULATOS A., **ALDEGA L.**, KYLANDER-CLARK A., JAGGI M. & AGOSTA F. (2023). *Regional scale, fault-related fluid circulation in the Ionian zone of the external Hellenides fold-and-thrust belt, western Greece: clues for fluid flow in fractured carbonate reservoirs*. Tectonics, **42** (8), e2023TC007867.
11. BEAUBIEN S.E., SCHIRRIPA SPAGNOLO G., RIDOLFI R.M., **ALDEGA L.**, ANTONCECCHI I., BIGI S., BILLI A. & CARMINATI E. (2023). *Structural control of gas migration pathways in the hydrocarbon-rich Val d'Agri basin (Southern Apennines, Italy)*. Marine and Petroleum Geology, **154**, 106339.
12. TAVANI S., SMERAGLIA L., FABBI S., **ALDEGA L.**, SABBATINO M., CARDELLO G.L., MARESCA A., SCHIRRIPA SPAGNOLO G., KYLANDER-CLARK A., BILLI A., BERNASCONI S.M. & CARMINATI E. (2023). *Timing, thrusting mode, and negative inversion along the Circeo thrust, Apennines, Italy: how the accretion-to-extension transition operated during slab rollback*. Tectonics, **42** (6), e2022TC007679.
13. MERCURI M., TAVANI S., **ALDEGA L.**, TRIPPETTA F., BIGI S. & CARMINATI E. (2023). *Are open-source aerial images useful for fracture network characterisation? Insights from a multi-scale approach in the Zagros Mts*. Journal of Structural Geology, **171**, 104866.
14. BIGARONI, N., SCUDERI M.M., CAPPÀ F., GUGLIELMI Y., NUSSBAUM C., **ALDEGA L.**, POZZI G. & COLLETTINI C. (2023). *Frictional properties of Opalinus Clay: influence of humidity, normal stress and grain size on frictional stability*. Geophysical Journal International, **233** (1), 211-228.
15. BILLI A., SMERAGLIA L., **ALDEGA L.**, BALSAMO F., BARBERIO M.D., BOSCHI C., CARACAUSI A., CARMINATI E., IANNACE A., MERCURI M., PIZZATI, M. & TAVANI, S. (2023). *Dolostone pulverization induced by coseismic rapid decompression of CO₂-rich gas in nature (Matese, Apennines, Italy)*. Earth and Planetary Science Letters, **604**, 117996.
16. NICCHIO M.A., BALSAMO F., NOGUEIRA F.C.C., **ALDEGA L.**, PONTES C.C.C., BEZERRA F.H.R. & SOUZA J.A.B. (2023). *The effect of fault-induced compaction on petrophysical properties of deformation bands in poorly lithified sandstones*. Journal of Structural Geology, 166, Article number 104758.
17. CURZI M., CARACAUSI A., ROSSETTI F., RABIEE A., BILLI A., CARMINATI E., **ALDEGA L.**, BERNASCONI S.M., BOSCHI C., DRIVENES K., RIZZO A.L. & SØRENSEN B.E. (2022). *From fossil to active hydrothermal outflow in the back-arc of the central Apennines (Zannone Island, Italy)*. Geochemistry, Geophysics, Geosystems, **23**, e2022GC010474.
18. NICCHIO M.A., BALSAMO F., CIFELLI F., NOGUEIRA F.C.C., **ALDEGA L.**, BEZERRA F.H.R., VASCONCELOS D.L. & SOUZA J.A.B. (2022). *An integrated structural and magnetic fabric study to constrain the progressive extensional tectonics of the Rio do Peixe Basin, Brazil*. Tectonics, **41**, e2022TC007244.

19. VANNUCCHI P, CLARKE A., DE MONTSERRAT A., OUGIER-SIMONIN A., **ALDEGA L.**, MORGAN J.P. (2022) - *A strength inversion origin for non-volcanic tremor*. *Nature Communications*, **13** (1), 2311.
20. VIOLA G., MUSUMECI G., MAZZARINI F., TAVAZZANI L., CURZI M., TORGENSEN E., VAN DER LELIJ R. & **ALDEGA L.** (2022) - *Structural characterization and K–Ar illite dating of reactivated, complex and heterogeneous fault zones: lessons from the Zuccale Fault, Northern Apennines*. *Solid Earth*, **13**, 1327–1351.
21. MARCHESINI B., CARMINATI E., **ALDEGA L.**, MIRABELLA F., PETRELLI M., CARACAUSI A. & BARCHI, M.R. (2022). *Chemical interaction driven by deep fluids in the damage zone of a seismogenic carbonate fault*. *Journal of Structural Geology*, **161**, 104668.
22. VOLPE G., POZZI G., CARMINATI E., BARCHI M.R., SCUDERI M.M., TINTI E., **ALDEGA L.**, MARONE C. & COLLETTINI C. (2022) - *Frictional controls on the seismogenic zone: Insights from the Apenninic basement, Central Italy*. *Earth and Planetary Science Letters*, **583**, 117444.
23. ZUCCARI C., VIOLA G., CURZI M., **ALDEGA L.** & VIGNAROLI G. (2022) - *What steers the “folding to faulting” transition in carbonate-dominated seismic fold-and-thrust belts? New insights from the Eastern Southern Alps (Northern Italy)*. *Journal of Structural Geology*, **157**, 104560.
24. GAETA, M., **ALDEGA L.**, ASTOLFI M.L., BONECHI B., MARRA F., PACHECO P., PERINELLI C. & TIBERI F. (2022) - *Soils developed on the Si-poor, alkali-rich pyroclastic rocks of the Colli Albani volcanic district (Central Italy): The effect of leucite, clinopyroxene and phlogopite on the base cations mobility*. *Applied Geochemistry*, **145**, 105430.
25. GAETA, M., **ALDEGA L.**, ASTOLFI M.L., BONECHI B., PACHECO P. & PERINELLI C. (2022) - *Base Cation Mobility in Vineyard Soils of the Colli Albani Volcanic District (Central Italy)*. *Journal of Soil Science and Plant Nutrition*, **22** (4), 4392-4403.
26. DELCHIARO M., IACOBUCCI G., TROIANI, F., DELLA SETA M., BALLATO P., **ALDEGA L.** (2022) - *Morphoevolution of the Seymareh landslide-dam lake system (Zagros Mountains, Iran): Implications for Holocene climate and environmental changes*. *Geomorphology*, **413**, 108367.
27. FILIPOVICH R., CHIODI A., BÁEZ W., AHUMADA M.F., INVERNIZZI C., TAVIANI S., **ALDEGA L.**, TASSI F., BARRIOS A., CORRADO S., GROPELLI G., NORINI G., BIGI S., CARICCHI C., DE BENEDETTI A., DE ASTIS G., BECCHIO R., VIRAMONTE J.G. & GIORDANO G. (2022). *Structural analysis and fluid geochemistry as tools to assess the potential of the Tocomar geothermal system, Central Puna (Argentina)*. *Geothermics*, **98**, 102297.
28. CURZI M., BERNASCONI S.M., BILLI A., BOSCHI C., **ALDEGA L.**, FRANCHINI S., ALBERT R., GERDES A., BARBERIO M.D., LOOSER N & CARMINATI E. (2021). *U–Pb age of the 2016 Amatrice earthquake causative fault (Mt. Gorzano, Italy) and paleo-fluid circulation during seismic cycles inferred from inter- and co-seismic calcite*. *Tectonophysics*, **819**, 229076.
29. **ALDEGA L.**, CARMINATI E., SCHARF A. & MATTERN F. (2021). *Thermal maturity of the Hawasina units and origin of the Batinah Mélange (Oman Mountains): Insights from clay minerals*. *Marine and Petroleum Geology*, **133**, 105316.
30. MARRONE S., MONIÉ P., ROSSETTI F., **ALDEGA L.**, BOUYBAOUENE M., CHARPENTIER D., LUCCI F., PHILLIPS D., THEYE T. & ZAGHLOUL M.N. (2021). *Timing of Alpine orogeny and postorogenic extension in the Alboran Domain, inner Rif chain, Morocco*. *Tectonics*, **40**, e2021TC006707.
31. **ALDEGA L.**, BRANDANO M. & CORNACCHIA I. (2020). *Trophism, climate and paleoweathering conditions across the Eocene-Oligocene transition in the Massignano section (northern Apennines, Italy)*. *Sedimentary Geology*, **405**, 105701.
32. CURZI M., BILLI A., CARMINATI E., ROSSETTI F., ALBERT R., **ALDEGA L.**, CARDELLO G.L., CONTI A., GERDES A., SMERAGLIA L., VAN DER LELIJ R., VIGNAROLI G. & VIOLA G. (2020). *Disproving the presence of Paleozoic-Triassic metamorphic rocks on the Island of Zannone (central Italy): Implications for the early stages of the Tyrrhenian-Apennines tectonic evolution*. *Tectonics*, **39** (12), e2020TC006296. doi: 10.1029/2020TC006296
33. CORRADO S., SCHITO A., ROMANO C., GRIGO D., POE B.T., **ALDEGA L.**, CARICCHI C., DI PAOLO L. & ZATTIN M. (2020). *An integrated platform for thermal maturity assessment of polyphase, long-*

- lasting sedimentary basins, from classical to brand-new thermal parameters and models: An example from the on-shore Baltic Basin (Poland)*. *Marine and Petroleum Geology*, **122**, 104547.
34. SMERAGLIA L., ALDEGA L., BERNASCONI S.M., BILLI A., BOSCHI C., CARACAUSI A., CARMINATI E., FRANCHINI S., RIZZO A.L., ROSSETTI F. & VIGNAROLI G. (2020). *The role of trapped fluids during the development and deformation of a carbonate/shale intra-wedge tectonic mélange (Mt. Massico, Southern Apennines, Italy)*. *Journal of Structural Geology*, **138**, 104086.
35. CARMINATI E., ALDEGA L., SMERAGLIA L., SCHARF A., MATTERN F., ALBERT R. & GERDES A. (2020). *Tectonic evolution of the Northern Oman Mountains, part of the Strait of Hormuz Syntaxis: new structural and paleothermal analyses and U-Pb dating of synkinematic calcite*. *Tectonics*, **39** (4), e2019TC005936. doi:10.1029/2019TC005936
36. CURZI M., ALDEGA L., BERNASCONI S., BERRA F., BILLI A., BOSCHI C., FRANCHINI S., VAN DER LELIJ R., VIOLA G. & CARMINATI E. (2020). *Architecture and evolution of an extensionally-inverted thrust (Mt. Tancia Thrust, Central Apennines): geological, structural, geochemical, and K-Ar geochronological constraints*. *Journal of Structural Geology*, **136**, 104059.
37. CARBONI F., VIOLA G., ALDEGA L., VAN DER LELIJ R., BROZZETTI F. & BARCHI M. (2020). *K-Ar fault gouge dating of Neogene thrusting: The case of the siliciclastic deposits of the Trasimeno Tectonic Wedge (Northern Apennines, Italy)*. *Italian Journal of Geosciences*, **139** (2), 300-308. doi 10.3301/IJG.2020.06
38. FILIPOVICH R., BÁEZ W., GROPELLI G., AHUMADA F., ALDEGA L., BECCHIO R., BERARDI G., BIGI S., CARICCHI C., CHIODI A., CORRADO S., DE ASTIS G., DE BENEDETTI A.A., INVERNIZZI C., NORINI G., SOLIGO M., TAVIANI S., VIRAMONTE J.G. & GIORDANO G. (2020). *Geological Map of the Tocomar Basin (Puna Plateau, NW Argentina). Implication for the Geothermal System Investigation*. *Energies*, **13**, 5492. doi:10.3390/en13205492
39. ALDEGA L., VIOLA G., CASAS-SAINZ A., MARCÉN M., ROMÁN-BERDIEL T. & VAN DER LELIJ R. (2019). *Unraveling multiple thermo-tectonic events accommodated by crustal-scale faults in northern Iberia, Spain: Insights from K-Ar dating of clay gouges*. *Tectonics*, **38** (10), 3629-3651. doi: 10.1029/2019TC005585
40. BALESTRA M., CORRADO S., ALDEGA L., GASPARO MORTICELLI M., SULLI A., RUDKIEWICZ J.-L. & SASSI W. (2019). *Thermal and structural modeling of the Scillato wedge-top basin source-to-sink system: Insights into the Sicilian fold-and-thrust belt evolution (Italy)*. *Geological Society of American Bulletin*, **131** (11/12), 1763–1782. doi: 10.1130/B35078.1
41. CORRADO S., ALDEGA L., PERRI F., CRITELLI S., MUTO F., SCHITO A. & TRIPODI V. (2019). *Detecting syn-orogenic extension and sediment provenance of the Cilento wedge top basin (southern Apennines, Italy): Mineralogy and geochemistry of fine-grained sediments and petrography of dispersed organic matter*. *Tectonophysics*, **750**, 404-418.
42. SMERAGLIA L., ALDEGA L., BILLI A., CARMINATI E., DI FIORE F., GERDES A., ALBERT R., ROSSETTI F. & VIGNAROLI G. (2019). *Development of an intrawedge tectonic mélange by out-of-sequence thrusting, buttressing, and intraformational rheological contrast, Mt. Massico ridge, Apennines, Italy*. *Tectonics*, **38** (4), 1223–1249.
43. BALESTRA M., CORRADO S., ALDEGA L., RUDKIEWICZ J.-L., GASPARO MORTICELLI M., SULLI A. & SASSI W., (2019). *3D structural modeling and restoration of the Apennine-Maghrebian chain in Sicily: Application for non-cylindrical fold-and-thrust belts*. *Tectonophysics*, **761**, 86-107.
44. MARCÉN M., CASAS-SAINZ A.M., ROMÁN-BERDIEL T., OLIVA-URCIA B., SOTO R. & ALDEGA L., (2018). *Kinematics and strain distribution in an orogen-scale shear zone: Insights from structural analyses and magnetic fabrics in the Gavarnie thrust, Pyrenees*. *Journal of Structural Geology*, **117**, 105-123.
45. MARCÉN M., CASAS-SAINZ A.M., ROMÁN-BERDIEL T., GRIERA A., SANTANACH P., POCOVÍ A., GIL-IMAZ A., ALDEGA L. & IZQUIERDO-LLAVALL E. (2018). *Multiple movements recorded in a crustal weakness zone in NE Iberia: The Vallès-Penedès Fault revisited*. *Journal of Geodynamics*, **121**, 96-114.

46. ALDEGA L., BIGI S., CARMINATI E., TRIPPETTA F., CORRADO S. & KAVOOSI M.A. (2018). *The Zagros fold-and-thrust belt in the Fars province (Iran): II. Thermal evolution*. Marine and Petroleum Geology, **93**, 376-390.
47. BIGI S., CARMINATI E., ALDEGA L., TRIPPETTA F. & KAVOOSI M.A. (2018). *Zagros fold and thrust belt in the Fars province (Iran) I: Control of thickness/rheology of sediments and pre-thrusting tectonics on structural style and shortening*. Marine and Petroleum Geology, **91**, 211-224.
48. CASAS-SAINZ A.M., GIL-IMAZ, A., SIMÓN, J.L., IZQUIERDO-LLAVALL E., ALDEGA L., ROMÁN-BERDIEL T., OSÁCAR M.C., PUEYO-ANCHUELA, Ó., ANSÓN M., GARCÍA-LASANTA C., CORRADO S., INVERNIZZI, C. & CARICCHI C. (2018). *Strain indicators and magnetic fabric in intraplate fault zones: Case study of Daroca thrust, Iberian Chain, Spain*. Tectonophysics, **730**, 29-47.
49. SCHITO A., ANDREUCCI B., ALDEGA L., CORRADO S., DI PAOLO L., ZATTIN M., SZANIAWSKI R., JANKOWSKI, L. & MAZZOLI, S. (2018). *Burial and exhumation of the western border of the Ukrainian Shield (Podolia): a multi-disciplinary approach*. Basin Research, **30**, 532-549.
50. ALDEGA L., CARMINATI E., SCHARF A., MATTERN F. & AL-WARDI M. (2017). *Estimating original thickness and extent of the Semail Ophiolite in the eastern Oman Mountains by paleothermal indicators*. Marine and Petroleum Geology, **84**, 18-33.
51. SCHITO A., CORRADO S., TROLESE M., ALDEGA L., CARICCHI C., CIRILLI S., GRIGO D., GUEDES A., SPINA A. & VALENTIM B. (2017). *Reply to Narkiewicz (2017) comment on "Thermal evolution of Paleozoic successions of the Holy Cross Mountains (Poland)"*. Marine and Petroleum Geology, **88**, 1114-1122.
52. CASAS-SAINZ A.M., ROMÁN-BERDIEL T., OLIVA-URCIA B., GARCÍA-LASANTA C., VILLALAÍN J.J., ALDEGA L., CORRADO S., CARICCHI C., INVERNIZZI C. & OSÁCAR M.C. (2017). *Multi-disciplinary approach to constrain kinematics of fault zones at shallow depths: a case study from the Cameros-Demanda thrust (North Spain)*. International Journal of Earth Sciences, **106**, 1023-1055. DOI: 10.1007/s00531-016-1349-5
53. SCHITO A., CORRADO S., TROLESE M., ALDEGA L., CARICCHI C., CIRILLI S., GRIGO D., GUEDES A., ROMANO C., SPINA A. & VALENTIM B. (2017). *Assessment of thermal evolution of Paleozoic successions of the Holy Cross Mountains (Poland)*. Marine and Petroleum Geology, **80**, 112-132.
54. GIORDANO G., AHUMADA F., ALDEGA L., BAEZ W., BECCHIO R., BIGI S., CARICCHI C., CHIODI A., CORRADO S., DE BENEDETTI A.A., FAVETTO A., FILIPOVICH R., FUSARI A., GROPELLI G., INVERNIZZI C., MAFFUCCI R., NORINI G., PINTON A., POMPOSIELLO C., TASSI F., TAVIANI S., VIRAMONTE J. (2016). *Preliminary data on the structure and potential of the Tocomar geothermal field (Puna plateau, Argentina)*. Energy Procedia, **97**, 202-209.
55. MAFFUCCI R., CORRADO S., ALDEGA L., BIGI S., CHIODI A., DI PAOLO L., GIORDANO G. & INVERNIZZI C. (2016). *Cap rock efficiency of geothermal systems in fold-and-thrust belts: evidence from paleo-thermal and structural analyses in Rosario de La Frontera geothermal area (NW Argentina)*. Journal of Volcanology and Geothermal Research, **328**, 84-95.
56. CARICCHI C., CORRADO S., DI PAOLO L., ALDEGA L. & GRIGO D. (2016). *Thermal maturity of Silurian deposits in the Baltic Syncline (on-shore Polish Baltic Basin): contribution to unconventional resources assessment*. Italian Journal of Geosciences, **135** (3), 383-393.
57. SMERAGLIA L., ALDEGA L., BILLI A., CARMINATI E. & DOGLIONI C. (2016). *Phyllosilicate injection along extensional carbonate-hosted faults and implications for co-seismic slip propagation: case studies from the central Apennines, Italy*. Journal of Structural Geology, **93**, 29-50.
58. SANTANTONIO M., FABBI S. & ALDEGA L. (2016). *Mesozoic architecture of a tract of the European-Iberian continental margin: Insights from preserved submarine palaeotopography in the Longobucco Basin (Calabria, Southern Italy)*. Sedimentary Geology, **331**, 94-113.
59. CARMINATI E., ALDEGA L., BIGI S., MINELLI G. & SHABAN A. (2016). *Not so simple "simply-folded Zagros": The role of pre-collisional extensional faulting, salt tectonics and multi-stage thrusting in the Sarvestan transfer zone (Fars, Iran)*. Tectonophysics, **671**, 235-248.

60. SCHITO A., CORRADO S., **ALDEGA L.** & GRIGO D. (2016). *Overcoming pitfalls of vitrinite reflectance measurements in the assessment of thermal maturity: the case history of the Lower Congo Basin*. *Marine and Petroleum Geology*, **74**, 59-70.
61. CARICCHI C., **ALDEGA L.** & CORRADO S. (2015). *Reconstruction of maximum burial along the Northern Apennines thrust wedge (Italy) by indicators of thermal exposure and modeling*. *Geological Society of American Bulletin*, **127** (3-4), 428-442. doi:10.1130/B30947.1
62. VIGNAROLI G., **ALDEGA L.**, BALSAMO F., BILLI A., DE BENEDETTI A.A., DE FILIPPIS L., GIORDANO G. & ROSSETTI F. (2015). *A way to hydrothermal paroxysm, Colli Albano Volcano, Italy*. *Geological Society of American Bulletin*, **127** (5-6), 672-687. doi:10.1130/B31139.1
63. CARICCHI C., **ALDEGA L.**, BARCHI, M., CORRADO S., GRIGO, D., MIRABELLA F. & ZATTIN M. (2015). *Exhumation patterns along shallow low-angle normal faults: an example from the Altotiberina active fault system (Northern Apennines, Italy)*. *Terra Nova*, **27** (4), 312-321.
64. **ALDEGA L.**, CORRADO S., CARMINATI E., SHABAN A. & SHERKATI S. (2014). *Thermal evolution of the Kuh-e-Asmari and Sim anticlines in the Zagros fold-and-thrust belt: implications for hydrocarbon generation*. *Marine and Petroleum Geology*, **57**, 1-13
65. CORRADO S., **ALDEGA L.**, CELANO, A.S., DE BENEDETTI A.A. & GIORDANO G. (2014). *Cap rock efficiency and fluid circulation of natural hydrothermal systems by means of XRD on clay minerals (Sutri, Northern Latium, Italy)*. *Geothermics*, **50**, 180-188.
66. CARMINATI E., **ALDEGA L.**, TRIPPETTA F., SHABAN A., NARIMANI H. & SHERKATI S. (2014). *Control of folding and faulting on fracturing in the Zagros (Iran): the Kuh-e-Sarbalesh anticline*. *Journal of Asian Earth Sciences*, **79**, 400-414.
67. DI PAOLO L., OLIVETTI V., CORRADO S., **ALDEGA L.**, BALESTRIERI M.L. & MANISCALCO R. (2014). *Detecting the stepwise propagation of the Eastern Sicily thrust belt (Italy): insight from thermal and thermochronological constraints*. *Terra Nova*, **26** (5), 363-371
68. BALSAMO F., **ALDEGA L.**, DE PAOLA N., FAORO I & STORTI F. (2014). *The signature and mechanics of earthquake ruptures along shallow creeping faults in poorly lithified sediments*. *Geology*, **42**, 435-438.
69. CARMINATI E., **ALDEGA L.**, BIGI S., CORRADO S., D'AMBROGI C., MOHAMMADI P., SHABAN A, SHERKATI S. (2013). *Control of Cambrian evaporites on fracturing in fault-related anticlines in the Zagros fold-and-thrust belt*. *International Journal of Earth Sciences*, **102**, 1237-1255.
70. CANTARELLI V., **ALDEGA L.**, CORRADO S., INVERNIZZI C. & CASAS-SAINZ A. (2013). *Thermal history of the Aragón-Béarn basin (Late Paleozoic, western Pyrenees, Spain); insights into basin tectonic evolution*. *Italian Journal of Geosciences*, **132** (3), 443-462. doi:10.3301/IJG.2012.41
71. STORTI F., **ALDEGA L.**, BALSAMO F., CORRADO S., DEL MONACO F., DI PAOLO L., MASTALERTZ M., MONACO, P. & TALLINI M. (2013). *Evidence of strong Quaternary earthquakes in the epicentral area of the April 6th 2009 L'Aquila seismic event from sediment paleofluidization and overconsolidation*. *Journal of Geophysical Research*, **118** (7), 3767-3784.
72. CARLINI M., ARTONI A., **ALDEGA L.**, BALESTRIERI M.L., CORRADO, S., VESCOVI P., BERNINI M., & TORELLI L. (2013). *Exhumation and reshaping of far-travelled/allochthonous tectonic units in mountain belts. New insights for the relationships between shortening and coeval extension in the western Northern Apennines (Italy)*. *Tectonophysics*, **608**, 267-287.
73. IZQUIERDO-LLAVALL E., **ALDEGA L.**, CANTARELLI V., CORRADO S., GIL-PEÑA I., INVERNIZZI C., CASAS-SAINZ A. (2013). *On the origin of cleavage in the Central Pyrenees: Structural and paleo-thermal study*. *Tectonophysics*, **608**, 303-318.
74. DI PAOLO L., **ALDEGA L.**, CORRADO S. & MASTALERTZ M. (2012). *Maximum burial and unroofing of Mt. Judica recess area in Sicily: implication for the Apenninic-Maghrebian wedge dynamics*. *Tectonophysics*, **530-531**, 193-207.
75. MENEGHINI F., BOTTI F., **ALDEGA L.**, BOSCHI C., CORRADO S., MARRONI M. & PANDOLFI L. (2012). *Hot fluid pumping along shallow-level collisional thrusts: the Monte Rentella Shear Zone, Umbria Apennine, Italy*. *Journal of Structural Geology*, **37**, 36-52.

76. ALDEGA L., CORRADO S., DI PAOLO, L., SOMMA R., MANISCALCO R. & BALESTRIERI, M.L. (2011). *Shallow burial and exhumation of the Peloritani Mts. (NE Sicily, Italy): Insight from paleo-thermal and structural indicators.* Geological Society of America Bulletin, **123**, 132-149.
77. ROSSETTI F., ALDEGA L., TECCE F., BALSAMO F., BILLI, A. & BRILLI M. (2011). *Fluid flow within the damage zone of the Boccheggiano extensional fault (Larderello-Travale geothermal field, central Italy): structures, alteration and implications for hydrothermal mineralization in extensional settings.* Geological Magazine, **148** (4), 558-579.
78. CORRADO S., INVERNIZZI C., ALDEGA L., D'ERRICO M., DI LEO P., MAZZOLI S., & ZATTIN M. (2010). *Testing the validity of organic and inorganic thermal indicators in different tectonic settings from continental subduction to collision: the case history of the Calabria-Lucania border (southern Apennines, Italy).* Journal of the Geological Society, **167**, 985-999.
79. CORRADO S., ALDEGA L. & ZATTIN M. (2010). *Sedimentary vs. tectonic burial and exhumation along the Apennines (Italy).* In: (Eds.) M. Beltrando, A. Peccerillo, M. Mattei, S. Conticelli, and C. Doglioni, *The Geology of Italy*, Journal of the Virtual Explorer, Electronic Edition, ISSN 1441-8142, vol. 36, paper 15, 1-37, doi:10.3809/jvirtex.2010.00232.
80. ALDEGA L., CUADROS J., LAURORA, A. & ROSSI A. (2009) - *Weathering of phlogopite to beidellite in a karstic environment.* American Journal of Science, **309**, 689-710.
81. CUADROS J., ALDEGA L., VETTERLEIN J., DRICKAMER K., DUBBIN W. (2009). *Reactions of lysine with montmorillonite at 80 °C: implications for optical activity, H⁺ transfer and lysine-montmorillonite binding.* Journal of Colloid and Interface Science, **333**, 78-84.
82. BIGI S., MILLI S., CORRADO S., CASERO P., ALDEGA L., BOTTI F., MOSCATELLI M., STANZIONE O., FALCINI F., MARINI M., & CANNATA D. (2009) - *Stratigraphy, structural setting and burial history of the Messinian Laga Basin in the context of Apennine foreland basin system.* Journal of Mediterranean Earth Sciences, **1**, 61-84.
83. CORRADO S., ALDEGA L., BALESTRIERI, M.L., MANISCALCO R. & GRASSO M. (2009) - *Structural evolution of the sedimentary accretionary wedge of the alpine system in Eastern Sicily: thermal and thermochronological constraints.* Geological Society of America Bulletin, **121**, 1475-1490.
84. MAZZOLI S., D'ERRICO M., ALDEGA L., CORRADO S., INVERNIZZI C., SHINER, P. & ZATTIN M. (2008) - *Tectonic burial and "young" (< 10 Ma) exhumation in the southern Apennines fold-and-thrust belt (Italy).* Geology, **36** (3), 243-246.
85. ALDEGA L., CORRADO S., GRASSO M. & MANISCALCO R. (2007) - *Correlation of diagenetic data from organic and inorganic studies in the Apenninic-Maghrebic fold-and-thrust belt: a case study from Eastern Sicily.* The Journal of Geology, **115** (3), 335-353.
86. ALDEGA L., BOTTI F. & CORRADO S. (2007) - *Clay mineral assemblages and vitrinite reflectance in the Laga Basin (Central Apennines, Italy): What do they record?* Clays and Clay Minerals, **55** (5), 504-518.
87. MAZZOLI S., ALDEGA L., CORRADO S., INVERNIZZI C. & ZATTIN M. (2006) - *Pliocene-Quaternary thrusting, syn-orogenic extension and tectonic exhumation in the southern Apennines (Italy): insights from the Monte Alpi area.* In: *Styles of Continental Contraction (Mazzoli S. and Butler R.W.H., eds)*, Geological Society of America, Special paper, **414**, 55-77, doi: 10.1130/2006.2414(04), ISBN-10 0-8137-2414-7, ISBN-13 978-0-8137-2414-0
88. ROSSETTI F., TECCE F., ALDEGA L., BRILLI M. & FACCENNA C. (2006) - *Deformation and fluid flow during orogeny at the Paleo-Pacific active margin of Gondwana: the Early Palaeozoic Robertson Bay accretionary complex (North Victoria Land, Antarctica).* Journal of Metamorphic Geology, **24**, 33-53.
89. ALDEGA L. & EBERL D.D. (2005) - *Detrital illite crystals identified from crystallite thickness measurements in siliciclastic sediments.* American Mineralogist, **90**, 1587-1596.
90. CORRADO S., ALDEGA L., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MAZZOLI S. & ZATTIN M. (2005) - *Thermal maturity of the axial zone of the Southern Apennines fold-and thrust-belt (Italy) from multiple organic and inorganic indicators.* Terra Nova, **17** (1), 56-65.

91. BOTTI F., ALDEGA L. & CORRADO S. (2004) - *Sedimentary and tectonic burial evolution of the Northern Apennines in the Modena-Bologna area: constraints from combined stratigraphic, structural, organic matter and clay mineral data of Neogene thrust-top basins*. *Geodinamica Acta*, **17** (3), 185-203.
92. ALDEGA L., CORRADO S., GIAMPAOLO C. & MAZZOLI S. (2003) - *Studio della mineralogia delle argille per la ricostruzione dei carichi tettonico/sedimentari: esempi dalle Unità Lagonegresi e Liguridi della Lucania sud-occidentale (Appennino Meridionale)*. *Boll. Soc. Geol. It.*, **122**, 203-216.

PEER-REVIEWED BOOK CHAPTERS

1. MOTTANA A. & ALDEGA L. (2011). *Advanced techniques to define intercalation processes*. In: (Eds.) A. Mottana and M.F. Brigatti, *Layered mineral structures and their application in advanced technologies*, EMU Notes in Mineralogy, vol. **11**, Chapter 8, 285-312. ISBN 978-0-903056-29-8

Database

1. ALDEGA L., VIOLA G., CASAS-SAINZ A., MARCÉN M., ROMÁN-BERDIEL T. & VAN DER LELIJ R. (2019). X-ray diffraction and K-Ar geochronological data of fault rocks in northern Iberia. Interdisciplinary Earth Data Alliance (IEDA), doi:10.1594/IEDA/111380.
2. CARMINATI E., ALDEGA L., SMERAGLIA L., SCHARF A., MATTERN F., ALBERT R. & GERDES A. (2020). X-ray diffraction, U-Pb geochronological and structural data of Musandam carbonates and Hamrat Duru and Sumeini Groups (Northern Oman Mountains), Interdisciplinary Earth Data Alliance (IEDA), doi:10.1594/IEDA/111477.

Blog

1. CARICCHI, C. & ALDEGA, L. (2021). La fontana di Trevi e la pietra di Roma. <https://ingvambiente.com/2021/07/02/la-fontana-di-trevi-e-la-pietra-di-roma/>

Publications on National Journals

1. GIAMPAOLO C. & ALDEGA L. (2013). *Il Travertino: la pietra di Roma*. *Rendiconti Online della Società Geologica Italiana*, **27**, 98-109.
2. ALDEGA L. (2006) - *Relationships between tectonic/sedimentary burial and exhumation in the evolution of the Apennines by means of clay mineralogy*. *Plinius*, **32**, 1-10.
3. ALDEGA L., CORRADO S., GRASSO M. & MANISCALCO R. (2005) - *Correlation of inorganic and organic thermal indicators in the eastern Sicily fold-and-thrust belt*. *Atti Ticinensi di Scienze della Terra - serie speciale*, **10**, 61-65.
4. ALDEGA L. & EBERL D.D. (2005) - *A method for quantifying detrital illite from crystallite thickness measurements*. *Atti Ticinensi di Scienze della Terra - serie speciale*, **10**, 57-60.
5. ALDEGA L., CORRADO S., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MARTINO C., MAZZOLI S., SCHIATTARELLA M. & ZATTIN M. (2005) - *The Southern Apennines case history: thermal constraints and reconstruction of tectonic and sedimentary burials*. *Atti Ticinensi di Scienze della Terra - serie speciale*, **10**, 45-53.
6. TECCE F., ROSSETTI F., ALDEGA L., BRILLI M. & FACCENNA C. (2005) - *Fluid inclusions constraints on P-T conditions during accretionary complex formation: the case of the Robertson Bay Terrane (north Victoria land, Antarctica)*. *Atti Ticinensi di Scienze della Terra - special volume*, **10**, 111-115.
7. GIAMPAOLO C., LO MASTRO S. & ALDEGA L. (2005) - *Metodo Ufficiale n°IV.2 - Diffrattometria a raggi X. Analisi mineralogica semiquantitativa*. *Gazzetta Ufficiale n. 79 del 06-04-2005*,

- Supplemento ordinario n. 60 - Serie Generale, Ministero delle Politiche Agricole e Forestali, Decreto 21 Marzo 2005, 36-41.
8. GIAMPAOLO C., LO MASTRO S. & ALDEGA L. (2005) - *Analisi quantitativa di minerali argillosi su polveri orientate per DRX*. In: (S. Fiore ed.) - Argille e Minerali delle argille, V volume, digilabs, Bari, 75-89.
 9. GIAMPAOLO C., LO MASTRO S. & ALDEGA L. (2005) - *VIII. Diffrazione a raggi X – Analisi mineralogica semiquantitativa*. In: Metodi di Analisi Mineralogica del Suolo (P. Adamo Ed.), FrancoAngeli, Milano, 1-21.
 10. ALDEGA L., ARGENTIERI A., DE RITA D., FABBRI M., GIAMPAOLO C. & LORETELLI S. (2004). *Contributo dello studio mineralogico alla ricostruzione dell'evoluzione geologica del bacino di Pozzo Grande (Marcellina, Roma)*. In: Stato dell'arte sullo studio dei fenomeni di sinkholes e ruolo delle amministrazioni statali e locali nel governo del territorio (S. Nisio ed.), Roma, 53-61.
 11. ALDEGA L., CORRADO S., GIAMPAOLO C. & MAZZOLI S. (2003) - *Primi dati sulle ricerche mineralogiche della frazione pelitica della successione lagonegrese della Rupe del Corvo (Val D'Agri, Basilicata)*. Studi Geologici Camerti 1/2003, 7-14.
 12. CORRADO S., ALDEGA L. & TOZER R. (2003) - *New constraints from organic matter maturity, clay mineralogy and structural data to the tectonic style of the central Apennines fold-and-thrust belt*. Atti Ticinensi di Scienze della Terra - serie speciale, v. 9, 124-129.
 13. BOTTI F., ALDEGA L. & CORRADO S. (2003) - *Tectono-sedimentary burial evolution of the Modena-Bologna Apennines: constraints from combined organic matter, clay mineral and stratigraphic-structural data of thrust-top basins*. Atti Ticinensi di Scienze della Terra - serie speciale, v. 9, 116-119.
 14. ALDEGA L., CELLO G., CORRADO S., CUADROS J., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MARTINO C., MAZZOLI S., SCHIATTARELLA M., ZATTIN M. & ZUFFA G. (2003) - *Tectono-sedimentary evolution of the Southern Apennines (Italy): thermal constraints and modelling*. Atti Ticinensi di Scienze della Terra - serie speciale, v. 9, 135-140.

Proceedings to National and International Conferences and meetings

1. ALDEGA L., CORRADO S., GIAMPAOLO C., LO MASTRO S., MAZZOLI S. (2001). *Analisi mineralogica di alcune successioni pelitiche meso-cenozoiche della Basilicata (Appennino meridionale)*. 3° Convegno FIST. Chieti, 5-8 Settembre 2001. Volume dei Riassunti, 649-650.
2. ALDEGA L., CORRADO S., CUADROS J., DI LEO P., GIAMPAOLO C., INVERNIZZI C., LO MASTRO S., MATTIONI L., MAZZOLI S., SCHIATTARELLA M., ZATTIN M., ZUFFA G. (2002). *Thermal constraints for the reconstruction of the Neogene-Quaternary evolution of the Lucanian sector of the southern Apennines (Italy)*. 81ª Riunione estiva della Società Geologica Italiana. Torino, 10-12 Settembre 2002. Volume dei riassunti, 9-10.
3. ALDEGA L., ARGENTIERI A., GIAMPAOLO C., LORETELLI S., VECCHIA P. (2002). *Il sinkhole di Marcellina (Roma): Risultati preliminari sulla mineralogia dei depositi di riempimento della Piana di Pozzo Grande*. 82° Convegno SIMP. Cosenza, 18-20 Settembre 2002. Plinius, n. 28, 25-27.
4. CORRADO S., ALDEGA L., CELLO G., CUADROS J., DI LEO P., GIAMPAOLO C., INVERNIZZI C., LO MASTRO S., MARTINO C., MAZZOLI S., SCHIATTARELLA M., ZATTIN M., ZUFFA G. (2003). *Reconstruction of the Neogene-Quaternary evolution of the Lucanian sector of the Southern Apennines (Italy): Thermal constraints and modelling*. EGS-AGU-EUG Joint Assembly. Nice, 6-11 Aprile 2003. EAE03-A-14844; VGP33-1FR4P-0690.
5. ALDEGA L., CORRADO S., CUADROS J., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MASTRANDREA G., MARTINO C., ZATTIN M. (2003). *Definition of a Basin Maturity Chart using clay minerals evolution and other different thermal indicators in complex geological settings: the Lucanian Apennine case*. Euroclay 2003, Modena 22-26 Giugno 2003. Volume dei riassunti, 11-12.

6. **ALDEGA L.** & EBERL D.D. (2004). *Detrital and diagenetic illite crystals determined from crystallite thickness measurements in siliciclastic sediments*. 32nd International Geological Congress, Firenze, 20-28 Agosto 2004.
7. BOTTI F., **ALDEGA L.**, CORRADO S., EBERL D.D. (2004). *Thermal maturity of Miocene siliciclastic turbiditic deposits as a tool for unravelling kinematics of the Modena-Bologna Apennines (Italy)*. 32nd International Geological Congress, Firenze, 20-28 Agosto 2004.
8. INVERNIZZI C., **ALDEGA L.**, CELLO G., CORRADO S., DI LEO P., GIAMPAOLO C., MARTINO C., MAZZOLI S., ZATTIN M. & ZUFFA G. (2004). *Thermal constraints and modelling for the Neogene-Quaternary evolution of the Lucanian sector of the southern Apennines (Italy)*. 32nd International Geological Congress, Firenze, 20-28 Agosto 2004.
9. CORRADO S., GORZA M., **ALDEGA L.**, ROBUSTINI P., TOZER R., BUTLER R.W.H.(2004). *Organic matter maturity, clay mineralogy and structural methods for detecting structural styles in the Central Apennines fold-and-thrust belt (Italy)*. 32nd International Geological Congress, Firenze, 20-28 Agosto 2004.
10. ZATTIN M., **ALDEGA L.**, BERSANI D., CORRADO S., INVERNIZZI C., MAZZOLI S. (2004) - *Multidisciplinary constraints to the apatite annealing temperatures: a case history from the southern Apennines*. 10th International Fission Track Dating and Thermochronology Conference, Amsterdam, 8-13 August 2004.
11. BIGI S., CORRADO S., **ALDEGA L.** (2004) -*Detecting structural styles in the Central Apennines fold-and-thrust belt (Italy): constraints from organic matter maturity, clay mineralogy and structural geology methods*. Geosed 2004 - Roma, 22-25 Settembre 2004, Volume dei Riassunti, 31-32.
12. **ALDEGA L.**, CORRADO S., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MARTINO C., MAZZOLI S., SCHIATTARELLA M. & ZATTIN M. (2005)- *Burial evolution and exhumation of the Southern Apennines fold-and-thrust belt*. Geitalia 2005 - Spoleto, 21-23 Settembre 2005, 10.1474/Epitome.01.0712.Geitalia2005 31-6, 201.
13. ROSSETTI F., TECCE F., **ALDEGA L.**, BRILLI M., FACCENNA C. (2005) - P-T-deformation history and paleo-fluidconditions during orogenic construction in a low-grade terrane: the early Paleozoic Robertson Bay accretionary complex (North Victoria Land, Antarctica). Geitalia 2005 - Spoleto, 21-23 Settembre 2005, 10.1474/Epitome.01.0713.Geitalia2005 31-7, 201.
14. INVERNIZZI C., **ALDEGA L.**, CORRADO S., D'ERRICO M., DI LEO P., MAZZOLI S. & ZATTIN M. (2006) - *New thermo-baric data from the (meta-)sedimentary units of northern Calabria (Italy): implications for tectonic burial and exhumation in the southern Apennines*. EGU General Assembly, Vienna, 2-7 April 2006. Geophysical Research Abstracts, vol. 8, 03577.
15. **ALDEGA L.**, CANTARELLI V., CASERO P., CORRADO S. (2006) - *Sedimentary vs. tectonic burial of the Laga Basin (Central Apennines, Italy): constraints from combined organic matter and clay mineral data*. EGU General Assembly, Vienna, 2-7 April 2006. Geophysical Research Abstracts, vol. 8, 08885.
16. MAZZOLI S., **ALDEGA L.**, CORRADO S., D'ERRICO M., INVERNIZZI C., SHINER P., ZATTIN M. (2006) - *Modes of tectonic accretion and recent (< 10 Ma) tectonic exhumation in the Southern Apennines fold and thrust belt (Italy): structural and thermochronological constraints*. GSA Philadelphia Annual Meeting (22–25 October 2006).
17. MAZZOLI S., **ALDEGA L.**, BUTLER R., CORRADO S., D'ERRICO M., INVERNIZZI C., SHINER P., ZATTIN M. (2007) - *Miocene basin development, tectonic burial and exhumation in the southern Apennines fold-and-thrust belt (Italy)*. Tectonic Studies Group annual meeting, Glasgow 3-6 January 2007, Abstract volume, 95.
18. **ALDEGA L.**, BIGI S., CANTARELLI V., CASERO P., CORRADO S. (2007) - *Unravelling the sedimentary and tectonic burial history of the Laga Basin (Central Apennines, Italy): constraints from combined organic matter and clay mineral data*. Tectonic Studies Group annual meeting, Glasgow 3-6 January 2007, Abstract volume, 69.
19. **ALDEGA L.**, CORRADO S., GRASSO M., MANISCALCO R. (2007) - *Correlation of organic and inorganic thermal indicators in the Apenninic-Maghrebian fold-and-thrust belt: a case study from*

Eastern Sicily. Tectonic Studies Group annual meeting, Glasgow 3-6 January 2007, Abstract volume, 68 .

20. **ALDEGA L.** (2007) - *Reconstructing the thermal evolution of a fold-and-thrust belt: integration of illite-smectite mixed layers and vitrinite reflectance in Eastern Sicily*. Clay Day 2007, 20 Febbraio 2007, CD-Rom.
21. **CORRADO S., ALDEGA L., BIGI S., CASERO P.** (2007) - *Integrated methodologies for the reconstruction of tectonic/sedimentary burials: the Laga Basin (Central Apennines) case history*. Clay Day 2007, 20 Febbraio 2007, CD-Rom.
22. **MAZZOLI S., ALDEGA L., CORRADO S., D'ERRICO M., INVERNIZZI C., SHINER P., ZATTIN M.** (2007) - *Neogene-Quaternary shortening, tectonic burial and exhumation in the Southern Apennines fold and thrust belt (Italy): Geological, Geophysical and thermochronological constraints*. 2nd International Conference on the Geology of the Tethys, Cairo 19-22 March 2007, Abstract volume, 91.
23. **CORRADO S., ALDEGA L., BALESTRIERI M.L., GRASSO M., MANISCALCO R.** (2007) - *Thermal and thermo-chronological evolution of the eastern Sicily fold-and-thrust belt (Italy): constraints from organic and inorganic parameters and fission track data*. 2nd International Conference on the Geology of the Tethys, Cairo 19-22 March 2007, Abstract volume, 93.
24. **ALDEGA L., CORRADO S., D'ERRICO M., DI LEO P., INVERNIZZI C., MAZZOLI S., ZATTIN M.** (2007) - *Causes and implications of contrasting geothermometric data from HP/LT metasediments: The Calabria-Lucania border case history (southern Italy)*. Euroclay 2007, Aveiro 22-27 July.
25. **ALDEGA L., CORRADO S., D'ERRICO M., DI LEO P., INVERNIZZI C., MAZZOLI S., SCHIATTARELLA M., ZATTIN M.** (2007). *Constraints for the kinematic evolution of the tectonic units of southern Apennines (Calabria-Lucania Border, Italy)*. Rimini, 12-14 Settembre 2007, 10.1474/Epitome.02.0345.Geoitalia2007, T11-20, 101.
26. **CORRADO S., ALDEGA L., BALESTRIERI M.L., GRASSO M., MANISCALCO R.** (2007) - *A thermal and thermo-chronological approach to study the evolution of the Eastern Sicily fold-and-thrust belt (Italy)*. Rimini, 12-14 Settembre 2007, 10.1474/Epitome.02.0335.Geoitalia2007, T11-10, 98.
27. **BIGI S., CORRADO S., MILLI S., CASERO P., MOSCATELLI M., STANZIONE O., BOTTI F., ALDEGA L.** (2007) - *Integrated basin analysis approach to the study of the central Apennines foreland system: the Laga Basin case history, Italy*. Rimini, 12-14 Settembre 2007, 10.1474/Epitome.02.0317.Geoitalia2007, T10-2, 93.
28. **MAZZOLI S., ALDEGA L., CORRADO S., D'ERRICO M., INVERNIZZI C., PIGNALOSA A., SHINER P., ZATTIN M.** (2008) - *Tectonic shortening vs gravity-driven processes in the southern Apennines fold and thrust belt (Italy)*. Fold-thrust belt exploration- the Geological Society, London, 14-15 Maggio 2008.
29. **ALDEGA L., BALESTRIERI M.L., CORRADO S., DI PAOLO L., GRASSO M., MANISCALCO R.** (2008) - *Thermal and thermo-chronological constraints to burial-exhumation history of Eastern Sicily fold-and-thrust belt*. Tethys to Mediterranean: a journey of geological discovery. Meeting in memory of Angelo Di Grande and Mario Grasso. Catania, 3-5 Giugno 2008, Abstract Volume.
30. **BOTTI F., ALDEGA L., BARSELLA M., CORRADO S., MARRONI M., MENEGHINI F., PALANDRI S., PANDOLFI L.** (2008) - *Structural and thermal constraints to the tectonic evolution of foredeep successions in the Northern Apennines (Italy)*. 70th EAGE Conference and exhibition. Rome, 9-12 June 2008. First Break. Extended abstract.
31. **CANTARELLI V., ALDEGA L., BIGI S., CASERO P., CORRADO S., MILLI S.** (2008) - *Organic matter optical analysis and clay mineralogy to unravel the tectonic/sedimentary burial in the Laga Basin (Italy)*. 70th EAGE Conference and exhibition. Rome, 9-12 June 2008. First Break. Extended abstract.
32. **DI PAOLO L., ALDEGA L., CORRADO S.** (2008) - *Structural evolution of the Apenninic-Maghrebian orogen in Eastern Sicily: thermal and thermochronological constraints*. 70th EAGE Conference and exhibition. Rome, 9-12 June 2008. First Break. Extended abstract.
33. **INVERNIZZI C., ALDEGA L., CORRADO S., DI LEO P., D'ERRICO M., GIAMPAOLO C., MAZZOLI S., SCHIATTARELLA M., ZATTIN M.** (2008) - *Thermal and thermochronological constraints to the*

southern Apennines evolution (Italy). 70th EAGE Conference and exhibition. Rome, 9-12 June 2008. First Break. Extended abstract.

34. MAZZOLI S., ALDEGA L., ASCIONE A., CORRADO S., D'ERRICO M., INVERNIZZI C., PIGNALOSA A., SHINER P., ZATTIN M. (2008) - *Structural, morphotectonic and thermo-chronological constraints to the Late Miocene-Quaternary tectonic evolution and exhumation in the southern Apennines (Italy)*. 70th EAGE Conference and Exhibition. Rome, 9-12 June 2008. Extended abstract.
35. ALDEGA L. & CORRADO S. (2008) - *Detrital and diagenetic illite identified from crystallite thickness measurements: a tool for paleo-temperature estimate*. 70th EAGE Conference and Exhibition. Rome, 9-12 June 2008. First Break. Extended abstract.
36. MAZZOLI S., ALDEGA L., ASCIONE A., CORRADO S., D'ERRICO M., IANNACE A., INVERNIZZI C., PIGNALOSA A., VITALE S., ZATTIN M. (2008) - *Integrated stratigraphic, structural, morphotectonic and thermochronometric constraints on the Neogene-Quaternary tectonic evolution of the southern Apennines-Calabrian Arc system*. 33rd International Geological Congress, Oslo, 6-14 Agosto 2008.
37. CORRADO S. & ALDEGA L. (2008) - *Correlation of organic and inorganic parameters for thermal maturity reconstructions in the Apennine-Maghrebien fold-and-thrust belt (Italy)*. 33rd International Geological Congress, Oslo, 6-14 Agosto 2008.
38. CORRADO S., ALDEGA L., ASCIONE A., BUTLER R.W.H., D'ERRICO M., INVERNIZZI C., MAZZOLI S., PIGNALOSA A., ZATTIN M. (2008) - *Comparing structural styles in the Apennines fold-and-thrust belt: constraints from thermal, thermochronometric and structural data*. 33rd International Geological Congress, Oslo, 6-14 Agosto 2008.
39. CUADROS J., DEKOV V., ALDEGA L., FIORE S. (2008) - *Chemical controls on phyllosilicates composition at the early stage*. Workshop on Martian Phyllosilicates: Recorders of Aqueous Processes? Paris, 21-23 October, 2008. Extended abstract.
40. CARLINI M., ALDEGA L., CORRADO S., VANNUCCHI P., REMITTI F., BETTELLI G. (2009). - *New thermal constraints on a shallow fossil subduction channel from the Northern Apennines of Italy*. Geophysical Research Abstracts, vol. 11, EGU2009-0, Vienna, 19-24 Aprile 2009.
41. CANTARELLI V., CASAS-SAINZ A., CORRADO S., GISBERT-AGUILAR J., INVERNIZZI C., ALDEGA L. (2009) - *Late Paleozoic basin evolution in the Western Pyrenees*. Geophysical Research Abstracts, vol. 11, EGU2009-8621, Vienna, 19-24 Aprile 2009.
42. ALDEGA L., CUADROS J., LAURORA A., ROSSI A. (2009) - *Low temperature alteration of trioctahedral micas to beidellite in a karstic environment*. 14th International Clay Conference, Castellaneta Marina (TA), 14-20 Giugno 2009.
43. CUADROS J., ALDEGA L., PARBHAKAR A., VETTERLEIN J., DUBBIN W., WEISS D., DRICKAMER K., SEPHTON M., COLES B. (2009) - *Adsorption of L-lysine on montmorillonite and reactions at 80 °C*. 14th International Clay Conference, Castellaneta Marina (TA), 14-20 Giugno 2009.
44. DI PAOLO L., ALDEGA L., BALESTRIERI M.L., CORRADO S., MANISCALCO S., SOMMA R. (2009) - *Shallow burial and exhumation of the Peloritani Mts. (NE Sicily, Italy): insight from paleo-thermal and structural indicators*. Geoitalia 2009, Rimini, 9-11 Settembre 2009.
45. CANTARELLI V., INVERNIZZI C., CORRADO S., CASAS-SAINZ A., GISBERT-AGUILAR J., ALDEGA L., ZATTIN M. (2009) - *Thermal and thermo-chronological integrated study of late Paleozoic transtensional basins in the Western Pyrenees*. Geoitalia 2009, Rimini, 9-11 Settembre 2009.
46. ALDEGA L., CUADROS J., LAURORA A., ROSSI A. (2009) - *Phlogopite to beidellite in a karstic system: insight for a solid-state transformation*. Geoitalia 2009, Rimini, 9-11 Settembre 2009.
47. SOMMA R., ALDEGA L., CORRADO S., DI PAOLO L. (2010) - *Tectonics and paleo-seismicity in the Peloritani Mountains: evidences from the Miocene siliciclastic deposits*. 2nd Convegno della Società Geologica Italiana Sezione Giovani, Napoli, 18-20 Marzo 2010.
48. DI PAOLO L., ALDEGA L., CORRADO S., SOMMA R., BALESTRIERI M.L., MANISCALCO S. (2010) - *Paleo-thermal and structural indicators for unraveling burial/exhumation paths in the Peloritani Mts. (NE Sicily, Italy)*. 72nd EAGE Conference and Exhibition. Barcelona, 14-17 June 2010. First Break. Extended abstract.

49. MENEGHINI F., BOTTI F., **ALDEGA L.**, BOSCHI C., CORRADO S., MARRONI M., PANDOLFI L. (2010) - *Hot fluid pumping along shallow level collisional thrusts: The Monte Rentella Shear Zone, Umbria Apennine, Italy.* 85° Congresso della Società Geologica Italiana, Pisa 6-8 Settembre 2010.
50. CANTARELLI V., **ALDEGA L.**, CORRADO S., INVERNIZZI C., CASAS-SAINZ A. (2010) - *Late Paleozoic evolution of the Aragón-Béarn Basin (western Pyrenees): insight from thermal indicators.* 85° Congresso della Società Geologica Italiana, Pisa 6-8 Settembre 2010.
51. CORRADO S., ZATTIN M., **ALDEGA L.** (2010) - *Burial and exhumation processes along the Apennine chain.* 85° Congresso della Società Geologica Italiana, Pisa 6-8 Settembre 2010.
52. **ALDEGA L.**, CORRADO S., DE BENEDETTI A.A., GIORDANO G. (2010) - *Valutazione e mappatura dell'efficacia delle rocce sigillo nei sistemi geotermici del Lazio settentrionale: una nova metodologia integrata mineralogica e petrografica organica.* GeothermEXPO 2010, Ferrara 21-23 Settembre 2010.
53. DI PAOLO L., **ALDEGA L.**, CORRADO S., MASTALERZ M. (2011) - *Thermal evolution of the Mesozoic-Cenozoic pelagic basin of Mt. Judica (Eastern Sicily) by means of FTIR spectroscopy on organic matter and X-ray diffraction analysis on clay mineral assemblages: implications for burial and exhumation history.* EGU General Assembly, Vienna, 3-8 April 2011. Geophysical Research Abstracts.
54. CORRADO S., **ALDEGA L.**, CASAS-SAINZ A., CANTARELLI V., INVERNIZZI C., ZATTIN M. (2011) - *Cenozoic flexure of the Iberia plate and foreland basin subsidence of the Hecho Group in the Western Pyrenees (Spain): constraints from burial and thermal evolution of pre- and syn-orogenic sequences by means of fluid inclusions, vitrinite reflectance, XRD on clay minerals and apatite fission tracks.* EGU General Assembly, Vienna, 3-8 April 2011. Geophysical Research Abstracts.
55. D'ARPINO T., **ALDEGA L.**, GIAMPAOLO C., LO MASTRO S., ROMANI G., MARIOTTINI M. (2011) - *Mineralogical, petrographical and mechanical characterization of second century blocks from a Roman latomia: a building stone of the ancient Rome.* EGU General Assembly, Vienna, 3-8 April 2011. Geophysical Research Abstracts.
56. CARLINI M., ARTONI A., BERNINI M., VESCOVI P., REMITTI F., BETTELLI G., VANNUCCHI P., BALESTRIERI M.L., CORRADO S., **ALDEGA L.** (2011) - *Regional and local trends of maximum burial and exhumation timing in the northern Apennines of Italy: a new updated dataset of low-temperature thermal and thermochronological data integrated with geological constraints.* EGU General Assembly, Vienna, 3-8 April 2011. Geophysical Research Abstracts.
57. BILLI A., ROSSETTI F., FACCENNA C., **ALDEGA L.**, FUBELLI G., LEONI G., PUGLISI C., VIGNAROLI G. (2011) - *A multi-disciplinary reappraisal of the Gimigliano Dam site (Calabria, southern Italy) to assess landslide hazard.* The second world landslide forum, Rome 3-9 October, 385.
58. CARICCHI C., **ALDEGA L.**, BOTTI F., CIFELLI F., CORRADO S., MATTEI M., SPERANZA F. (2011) - *Preliminary results on the reconstruction of the Cenozoic thermal and kinematic evolution of the external portion tuscan nappe (northern Apennines).* Geoitalia 2011, Torino 19-23 Settembre 2011, Epitome, 4, 147.
59. CORRADO S., **ALDEGA L.**, BALESTRIERI M.L., DI PAOLO L., MANISCALCO R., SOMMA R. (2011) - *Burial and exhumation history of the Apenninic-Maghrebian chain in eastern Sicily by means of thermal modelling.* Geoitalia 2011, Torino 19-23 Settembre 2011, Epitome, 4, 145-146.
60. CARMINATI E., **ALDEGA L.**, BELLATRECCIA F., BIGI S., CORRADO S., D'AMBROGI C., MOHAMMADI P., SHABAN A., SHERKATI S. (2012) - *Control of Cambrian salt on the geometry and strain of fault-related anticlines in the Zagros fold-and-thrust belt.* GEO2012 – 10th Middle East Geosciences Conference and Exhibition, Bahrain, 4-7 March 2012.
61. CARICCHI C., **ALDEGA L.**, CIFELLI F., CORRADO S., MATTEI M., SPERANZA F. (2012) - *First results from paleomagnetic and paleothermal analyses on internal Tertiary deposits (Tuscan Unit) of the Northern Apennines chain.* EGU General Assembly 2012, Vienna 22-27 Aprile 2012, Vol. 14, EGU2012-7180-2.
62. STORTI F., BALSAMO F., **ALDEGA L.**, CORRADO S., DI PAOLO L., MASTALERTZ M., TALLINI M. (2012). *Evidence of strong Quaternary earthquakes in the epicentral area of the April 6th 2009*

- L'Aquila seismic event from sediment paleofluidization and overconsolidation*. EGU General Assembly 2012, Vienna 22-27 Aprile 2012, Vol. 14, EGU2012-5121.
63. DI PAOLO L., **ALDEGA L.**, BALESTRIERI M.L., CORRADO S., OLIVETTI V. (2012). *Integration of thermal and thermochronological constraints in thermal modeling of fold-and-thrust belts: the case history of the Eastern Sicily wedge*. AAPG Hedberg Conference "Petroleum Systems: Modeling the past, planning the Future", Nice 1-5 October.
64. CARMINATI E., **ALDEGA L.**, BIGI S., CORRADO S., D'AMBROGI C., MOHAMMADI P., SHABAN A., SHERKATI S. (2012). *Control of Cambrian salt on strain in fault-related anticlines, Zagros fold-and-thrust belt*. Darius Program – Barcelona Workshop, 14-16 Maggio 2012, abstract volume, 43-44.
65. CORRADO S., **ALDEGA L.**, CARMINATI E., SHERKATI S. (2012). *Thermal evolution of the Kuh-e-Asmari and Sim anticlines in the Zagros fold-and-thrust belt by means of organic and inorganic paleo-thermal indicators*. Darius Program – Barcelona Workshop, 14-16 Maggio 2012, abstract volume, 39-41.
66. BALSAMO F., FAORO I., **ALDEGA L.**, DE PAOLA N., STORTI F. (2012). *Coseismic signature in poorly lithified sediments: field data and friction experimental results*. Rock Deformation from field studies, experiments and theory: a meeting in honour of the work of Prof. E.H. Rutter. The Geological Society, London 30-31 May 2012. Abstract book, 44.
67. BALSAMO F., FAORO I., **ALDEGA L.**, DE PAOLA N., STORTI F. (2012). *Evidence of coseismic rupture in poorly lithified sediments of the Crotona basin (Italy): field and friction experimental data*. Rendiconti online Soc. Geol. It., Vol. **22** (2012), 4-5. Riunione annuale Gruppo Italiano di Geologia Strutturale, Modena, 25-26 Ottobre 2012.
68. DI PAOLO L., **ALDEGA L.**, CORRADO S., GIORDANO G., INVERNIZZI C. (2012). *Modelling of organic and inorganic paleo-thermal indicators to constrain the evolution of the geothermal system of Rosario de La Frontera (La Candelaria Ridge, NW Argentina): a new tool for geothermal exploration*. Rendiconti Online della Società Geologica Italiana, **21**, 807-808.
69. CARLINI M., ARTONI A., VESCOVI P., BERNINI M., REMITTI R., BETTELLI G., VANNUCCHI P., **ALDEGA L.**, BALESTRIERI M.L., CORRADO S., TORELLI L. (2012). *Late orogenic deformation of the shallowest portion of an orogenic wedge: coeval activity of extensional and compressional tectonics in the western Northern Apennines (Italy)*. Rendiconti Online della Società Geologica Italiana, **21**, 193-194.
70. CARICCHI C., CORRADO S., **ALDEGA L.** (2012). *Burial history of the southern portion of the Tuscan Nappe (Northern Apennines) constrained by means of organic and inorganic paleo-thermal indicators: implications for the orogenic wedge evolution*. Rendiconti Online della Società Geologica Italiana, **21**, 190-192.
71. DI PAOLO L., CORRADO S., OLIVETTI V., **ALDEGA L.**, BALESTRIERI M.L., MANISCALCO R. (2012). *Stepwise behavior of the Eastern Sicily thrust belt: propagation vs thickening by means of thermal and thermochronological constraints*. Rendiconti Online della Società Geologica Italiana, **21**, 198-200.
72. PERRI F., GRECO A., **ALDEGA L.**, CORRADO S., CRITELLI S., DI PAOLO L. (2012). *Composition provenance and thermal history of sedimentary successions from the Cilento Group (southern Apennines)*. Rendiconti Online della Società Geologica Italiana, **21**, 203-205.
73. ROSSETTI F., **ALDEGA L.**, TECCE F., BALSAMO F., BILLI A., BRILLI M. (2012). *Hydrothermal mineralisation along the damage zone of the Boccheggiano normal fault, Tuscany, Italy*. Rendiconti Online della Società Geologica Italiana, **21**, 838.
74. CARICCHI C., **ALDEGA L.**, BARCHI M.R., CORRADO S., MIRABELLA F. & ZATTIN M. (2013). *Paleothermal and thermochronological constraints to the kinematic evolution of an extensional system driven by a low-angle normal fault: the case history of the Altotiberina fault (Northern Apennines, Italy)*. EGU General Assembly 2013, Vol. 15, EGU2013-11693, 7-12 Aprile, Vienna.
75. BALSAMO F., STORTI F., **ALDEGA L.** (2013). *Extensional fault zone architecture and deformation band scaling properties in high-porosity sands: example from the Crotona basin (south Italy)*. EGU General Assembly 2013, Vol. 15, EGU2013-11693, 7-12 Aprile, Vienna.

76. CARLINI M., ARTONI A., VESCOVI P., BERNINI M., REMITTI F., BETTELLI G., VANNUCCHI P., **ALDEGA L.**, BALESTRIERI M.L., CORRADO S., TORELLI L. (2013). *Tectonic and erosional exhumation processes in the western Northern Apennines of Italy: coeval compressional and extensional tectonics affecting an eroding orogenic wedge*. EGU General Assembly 2013, 7-12 Aprile, Vienna. Vol. 15, EGU2013-12994.
77. MAFFUCCI R., **ALDEGA L.**, BARCELONA H., BIGI S., CORRADO S., DI PAOLO L., GIORDANO G., INVERNIZZI C., UNGARELLI C. (2013). *The geothermal system of Rosario de La Frontera (Salta Province, NW Argentina) for sustainable development of future towns: results of C.U.I.A. Project 2010 by means of an integrated geological and geophysical approach*. Giornate CUIA 2013, 25 Aprile Salta (Argentina).
78. CARICCHI C., **ALDEGA L.**, BARCHI M.R., CORRADO S., GRIGO D., MIRABELLA F., ZATTIN M. (2013). *Kinematic evolution of the Altotiberina extensional fault system (Northern Apennines) constrained by paleothermal and thermochronological indicators*. Geoitalia 2013 – IX Forum di Scienze della Terra, 16-18 Settembre, abstract volume, 140.
79. MIRABELLA F., CARICCHI C., **ALDEGA L.**, BARCHI M.R., CORRADO S., GRIGO D., ZATTIN M. (2013). *Uplift at the foot-wall of a low angle normal fault from kinematic reconstructions and paleothermal and thermochronological indicators*. 9th TOPO-EUROPE meeting, 9-11 Ottobre 2013, Certosa di Pontignano.
80. CARICCHI C., **ALDEGA L.**, BARCHI M.R., CORRADO S., GRIGO D., MIRABELLA F., ZATTIN M. (2013). *Paleothermal and thermochronological indicators to constrain the foot-wall exhumation of the Altotiberina low angle normal fault system (Northern Apennines, Italy)*. GIGS 2013, 28-29 Ottobre, Milano, Rendiconti online della Società Geologica Italiana, **29**, 222.
81. SCHITO A., **ALDEGA L.**, CORRADO S., DI PAOLO L., GANGEMI G. (2013). *Thermal evolution of Paleozoic and Mesozoic-Cenozoic successions of the Carpathian orogenic system (central sector - Ukraine) from the fold and thrust belt to the foreland by means of organic petrography, spectroscopy and XR Diffraction: preliminary results*. GIGS 2013, 28-29 Ottobre, Milano, Rendiconti online della Società Geologica Italiana, **29**, 162-164.
82. MIRABELLA F., **ALDEGA L.**, BARCHI M.R., CARICCHI C., CORRADO S., DE DONATIS M., GRIGO D., LUPATTELLI A., SUSINI S., ZATTIN M. (2014). *Growth pattern and tectonic evolution of a regional low angle normal fault from sequential restoration techniques*. The Geological Society, Burlington House, London, 23-25 June 2014.
83. CALVÍN P., CASAS-SAINZ A., ROMÁN-BERDIEL T., OLIVA-URCIA B., GARCÍA-LASANTA C., POCOVÍ A., GIL-IMAZ A., PUEYO-ANCHUELA O., IZQUIERDO-LLAVALL E., OSÁCAR C., VILLALAIN J., CORRADO S., INVERNIZZI C., **ALDEGA L.**, CARICCHI C., ANTOLÍN-TOMÁS B. (2014) - *Unraveling the deformational history of faults from AMS*. EGU General Assembly, Vienna 27 April – 02 May 2014, Geophysical Research Abstracts Vol. 16, EGU2014-6064.
84. BALSAMO F., **ALDEGA L.**, DE PAOLA N., FAORO I., STORTI F. (2014) - *Field and experimental evidence for coseismic ruptures along shallow creeping faults in forearc sediments of the Crotona Basin, South Italy*. EGU General Assembly, Vienna 27 April-02 May 2014, Geophysical Research Abstracts Vol. 16, EGU2014-15230-2.
85. DI PAOLO L., CORRADO S., ROMANO C., **ALDEGA L.**, DI GENOVA D., GRIGO D. (2014) - *A combined integrated multi-method approach for the assessment of the thermal maturity of sedimentary basins*. 30th Anniversary of Abu Dhabi International Petroleum Exhibition & Conference, 10-13 November 2014.
86. CARICCHI C., CORRADO S., DI PAOLO L., ROMANO C., **ALDEGA L.**, GRIGO D., VONA A. (2014) - *A new multi-method approach to assess thermal maturity of Lower Paleozoic sedimentary successions: the case history of Polish Baltic Basin*. Congresso SGI-SIMP 2014, Milano 10-12 Settembre 2014. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **31**, 740.
87. VIGNAROLI G., **ALDEGA L.**, BALSAMO F., BILLI A., DE BENEDETTI A.A., DE FILIPPIS L., GIORDANO G., ROSSETTI F. (2014) - *Paroxysmal hydrothermal manifestations in the tectono-volcanic setting of*

- the Colli Albani, Rome*. Congresso SGI-SIMP 2014, Milano 10-12 Settembre 2014. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **31**, 502.
88. GARCÍA-LASANTA C., CASAS-SAINZ A., ROMÁN-BERDIEL T., OLIVA-URCIA B., VILLALÁIN, S. CORRADO S., INVERNIZZI C., **ALDEGA L.**, CARICCHI C., OSÁCAR C., CALVÍN P. (2014) - *Deciphering the kinematic of thrusts from fault rocks: insights from AMS and paleotemperature analyses*. 24e Réunion des Sciences de la Terre, Pau 27-31 October, 2014, Abstract volume, 300.
89. **ALDEGA L.**, CARMINATI E., BIGI S., TRIPPETTA F., CORRADO S., SHABAN A. (2014) - *Thermal and tectonic evolution of the SW Zagros (Fars province) from internal to external zones*. Congresso SGI-SIMP 2014, Milano 10-12 Settembre 2014. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **31**, 737.
90. MINELLI G., BIGI S., **ALDEGA L.**, CARMINATI E., LUPATELLI A., SHABAN A. (2014) - *Tectonic evolution of the Sarvestan area (Fars region, Zagros): constraints from seismic lines, field data and thermal maturity of sediments*. Congresso SGI-SIMP 2014, Milano 10-12 Settembre 2014. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **31**, 746.
91. BALSAMO F., **ALDEGA L.**, DE PAOLA N., FAORO I. & STORTI F. (2014) - *Coseismic ruptures along shallow creeping faults in unconsolidated sediments of the Crotone Basin, South Italy: field and experimental data*. Congresso SGI-SIMP 2014, Milano 10-12 Settembre 2014. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **31**, 633.
92. FABBI S., SANTANTONIO M., **ALDEGA L.** (2014) - *The northern Longobucco basin-margin architecture and evolution. Preliminary results*. Congresso SGI-SIMP 2014, Milano 10-12 Settembre 2014. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **31**, 160.
93. GRIGO D., **ALDEGA L.**, ANDREUCCI B., CARICCHI C., CORRADO S., DI PAOLO L., ROMANO C., ZATTIN M. (2014) - *The thermal history of the Baltic Basin evaluated by means of a multidisciplinary approach, the IMPR – Integrated Maturity Profile*. Congresso SGI-SIMP 2014, Milano 10-12 Settembre 2014. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **31**, 745.
94. CARMINATI E., **ALDEGA L.**, BIGI S., TRIPPETTA F., CORRADO S., MINELLI G., SHABAN A. (2014) - *Thermal and structural evolution of the Zagros*. Darius Symposium, Paris 8-9th December 2014.
95. MANISCALCO R., **ALDEGA L.**, CORRADO S., DI PAOLO L., PUNTURO R., STURIALE G. (2015) - *Deep water Numidian sandstones in Sicily: a proven gas play*. AAPG Europe region, Sicily 16-17th April 2015.
96. TROLESE M., CELANO A.S., CORRADO S., CARICCHI C., SCHITO A., **ALDEGA L.** (2015) - *Thermal evolution of Lower Paleozoic sedimentary successions from organic and inorganic studies: the case history of the Holy Cross Mountains (central Poland)*. Geophysical Research Abstracts, vol. 17, EGU2015-6398.
97. ANDREUCCI B., SCHITO A., **ALDEGA A.**, CORRADO S., DI PAOLO L., ZATTIN M., SZANIAWSKI R., JANKOWSKI L., MAZZOLI S. (2015). *Burial and exhumation of the western border of the Ukrainian shield*. Geophysical Research Abstracts, vol. 17, EGU2015-15703.
98. SANTANTONIO M., FABBI S., **ALDEGA L.** (2015) *Rifted Hercynian basement and mixed carbonate/siliciclastic sedimentation in the Jurassic of the Longobucco Basin (NE Calabria, S Italy)*. 31st IAS Meeting of Sedimentology, Krakow 22-25 June 2015, Abstract book, 466.
99. TAVIANI S., CHIODI A., INVERNIZZI M.C., **ALDEGA L.**, BAEZ W., BECCHIO R., CARICCHI C., DE BENEDETTI A.A., FILIPOVICH R., VIRAMONTE J., CORRADO S., GIORDANO G. (2015). *Preliminary hydrological conceptual model of the Tocomar Geothermal system (Puna, Argentina)*. AQUA 2015, 13-18 Settembre 2015.
100. SCHITO A., **ALDEGA L.**, CARICCHI C., CELANO A.S., CORRADO S., GUEDES A., ROMANO C., TROLESE M. (2015) - *New constraints on Holy Cross Mountains (Central Poland) thermal maturity by means of reflectance on organoclasts and Raman Spectroscopy*. AAPG European Conference and Exhibition, 18-19 May 2015.
101. SCHITO A., CORRADO C., **ALDEGA L.**, GRIGO D., DI PAOLO L., ROMANO C. (2015) - *A new multimethod approach for the assessment of thermal maturity in fan-delta systems: a case history from the Lower Congo Basin*. Petroleum Geology Student Contest, Matera 27th November.

102. SCHITO A., CORRADO C., TROLESE M., **ALDEGA L.**, CARICCHI C., CIRILLI S., SPINA A. (2016) - *Thermal evolution of the Holy Cross Mountains (central Poland) through modelling of new and old thermal maturity indicators of Paleozoic sedimentary successions*. Paleozoic Stratigraphy of Gondwana, Perugia 14-16th April 2016, Abstract book, 54.
103. SCHITO A., CORRADO C., CARICCHI C., **ALDEGA L.**, TROLESE M. (2016) - *Modelling thermal maturity evolution of Paleozoic successions in the Holy Cross Mts (Poland) by new and old datasets of thermal indicators*. AAPG Europe region 19-20th May, Bucharest.
104. MARTIZZI P., BALESTRA M., CORRADO S., **ALDEGA L.**, INTERBARTOLO F., GASPARO MORTICELLI M., SULLI A. (2016) - *Thermal history and provenance studies of the Scillato wedge top basin (central-northern Sicily, Italy) by means of vitrinite reflectance and XRD on clay minerals*. AAPG Europe region 19-20th May, Bucharest. DOI: 10.13140/RG.2.2.22576.76803
105. **ALDEGA L.**, CARMINATI E., SCHARF A., MATTERN F. (2016). *Thermal and structural imprint of the Cretaceous ophiolite obduction in Oman*. 88° Congresso della Società Geologica Italiana, Napoli, 7-9 Settembre 2016. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **40**, 512.
106. CARMINATI E., **ALDEGA L.**, BIGI S., TRIPPETTA F., CORRADO S. (2016). *Thermal constraints to the tectonic evolution of the SW Zagros (Fars province) along a 250 km transect from internal to external zones*. 88° Congresso della Società Geologica Italiana, Napoli, 7-9 Settembre 2016. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **40**, 519.
107. BALESTRA M., MARTIZZI P., CORRADO S., **ALDEGA L.**, GASPARO MORTICELLI M., SULLI A., INTERBARTOLO F. (2016). *Burial and thermal evolution of the Sicilian fold-and-thrust belt: preliminary results from the Scillato wedge top basin (central-northern Sicily, Italy)*. 88° Congresso della Società Geologica Italiana, Napoli, 7-9 Settembre 2016. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **40**, 515.
108. CORRADO S., SCHITO A., **ALDEGA L.**, GRIGO D. (2016). *A quantitative multi-method approach to assess thermal evolution of the Lower Congo Basin (Angola)*. 88° Congresso della Società Geologica Italiana, Napoli, 7-9 Settembre 2016. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **40**, 525.
109. SMERAGLIA L., **ALDEGA L.**, BILLI A., CARMINATI E., DOGLIONI C. (2016). *Phyllosilicate occurrence along extensional faults in carbonate rocks and implications for seismic slip propagation: case studies from the central Apennines, Italy*. 88° Congresso della Società Geologica Italiana, Napoli, 7-9 Settembre 2016. Rendiconti online della Società Geologica Italiana, Suppl. n. 1 al Vol. **40**, 48.
110. SCHARF A., MATTERN F., AL-WARDI M., **ALDEGA L.**, CARMINATI E. (2017) - *Postobduction ooid deformation in Mesozoic limestone and paleotemperature (Jabal Akhdar Dome, Oman Mountains)*. AAPG (American Association of Petroleum Geologists) 2017, Structural Styles in the Middle East Geosciences Technology Workshops, Muscat, May 9th -11th, Workshop Poster Abstracts, p. 5.
111. CASAS-SAINZ, A., ROMÁN-BERDIEL, T., MARCÉN, M., OLIVA-URCIA, B., SOTO, R., GARCÍA-LASANTA, C., CALVÍN, P., POCOVÍ A., GIL-IMAZ, A., PUEYO-ANCHUELA, O., IZQUIERDO-LLAVALL, E., SIMÓN, J.L., SANTANACH, P., VERNET, E., SANTOLARIA, P., OSÁCAR, C., VILLALAIN, J.J., CORRADO, S., INVERNIZZI, C., **ALDEGA, L.**, CARICCHI, C. (2017) – *Aplicación de la Anisotropía de la Susceptibilidad Magnética a rocas de falla. Ejemplos del norte de Iberia*. Reunión Magiber 2017: Paleomagnetismo en Iberia y Canarias, 14-16 September, 2017, Abstract volume, 59-62.
112. CARLINI M., STORTI F., BALSAMO F., CLEMENZI L., OGATA K., **ALDEGA L.**, CORRADO S., TAGLIAFERRI A., TINTERRI R., VIOLA G. (2017) - *Tectono-sedimentary evolution of the palazzuolo anticline (Northern Apennines – Italy)*. Geophysical Research Abstracts Vol. 19, EGU2017-17123.
113. CASAS A., ROMAN-BERDIEL T., MARCÉN, M., OLIVA-URCIA, B., SOTO, R., GARCIA-LASANTA, C., CALVIN, P., POCOVÍ A., GIL-IMAZ, A., PUEYO-ANCHUELA, O., IZQUIERDO-LLAVALL, E., VERNET, E., SANTOLARIA, P., OSACAR, C., SANTANACH, P., CORRADO, S., INVERNIZZI, C., **ALDEGA, L.**, CARICCHI, C., VILLALAIN, J.J. (2017) - *Application of Anisotropy of Magnetic*

Susceptibility to large-scale fault kinematics: an evaluation. Geophysical Research Abstracts Vol. 19, EGU2017-15988

114. CARMINATI E., **ALDEGA L.**, SMERAGLIA L., SCHARF A., MATTERN F. (2018). *Obduction and collision tectonics in Oman: constraints from structural and thermal analyses.* 1st Conference of the Arabian Journal of Geosciences (CAJG), 12-15 Novembre 2018, Hammamet, Tunisia, 319-321, doi: 10.1007/978-3-030-01455-1_70.
115. BALESTRA M., CORRADO S., **ALDEGA L.**, GASPARO MORTICELLI M., SULLI A., RUDKIEWICZ J.L., SASSI W. (2018). *3D kinematic and thermal evolution of the Sicilian Fold-and-Thrust belt in the Kumeta-Busambra Mts. area (Italy).* EGU General Assembly, 8-13 April, Wien (Austria), Geophysical Research Abstracts Vol. 20, EGU2018-10080.
116. BALESTRA M., CORRADO S., **ALDEGA L.**, GASPARO MORTICELLI M., SULLI A., RUDKIEWICZ J.L., SASSI W. (2018). *3D Structural Modeling and Restoration in thrust belts: examples from the Kumeta and Busambra Mts, Sicilian fold and thrust belt, Italy.* Congresso SGI-SIMP 2018, 12-14 Settembre, Catania, Italia, Abstract book, 241.
117. MAHDIKHANI SARVEJAHANI C., **ALDEGA L.**, CORRADO S., SARFI M. (2018). *Preliminary paleothermal and geochemical data of the sedimentary succession in the Huleylan well, Lorestan, Iran.* Congresso SGI-SIMP 2018, 12-14 Settembre, Catania, Italia, Abstract book, 255.
118. FILIPOVICH R., INVERNIZZI C., AHUMADA F., CHIODI A., BÁEZ W., **ALDEGA L.**, BIGI S., BECCHIO R., CORRADO S., CARICCHI C., DE ASTIS G., DE BENEDETTI A.A., GROPELLI G., NORINI G., TAVIANI S., TASSI F., VIRAMONTE J., GIORDANO G. (2018). *New conceptual model for the Tocomar Geothermal System (Central Puna, NW Argentina): insights from geological, structural and geochemical data.* Congresso SGI-SIMP 2018, 12-14 Settembre, Catania, Italia, Abstract book, 249.
119. **ALDEGA L.**, VIOLA G., CASAS-SAINZ A., MARCÉN M., ROMÁN-BERDIEL T., VAN DER LEIJ R. (2018). *Deciphering the timing of deformation of polyphase crustal-scale faults in northern Iberia, Spain: Insights from K-Ar dating of clay gouges.* Congresso SGI-SIMP 2018, 12-14 Settembre, Catania, Italia, Abstract book, 162.
120. ATOUABAT A., CORRADO S., SCHITO A., FRIZON DE LAMOTTE D., GIMENO O., MOHN G., **ALDEGA L.**, ZAGHLOUL M.N. (2019). *Sedimentary and tectonic burial evolution of the Western-Central Rif Belt (Morocco): constraints from petrography and Raman spectroscopy on organic matter, clay mineralogy and structural investigations.* EGU General Assembly, 7-12 April, Wien (Austria), Geophysical Research Abstracts Vol. 21, EGU2019-1221.
121. BALESTRA M., CORRADO S., **ALDEGA L.**, RUDKIEWICZ J-L., GASPARO MORTICELLI M., SULLI A., SASSI W. (2019). *3D structural modeling and restoration of the Apennine-Maghrebian chain in Sicily: application for non-cylindrical fold-and-thrust belts.* EGU General Assembly, 7-12 April, Wien (Austria), Geophysical Research Abstracts Vol. 21, EGU2019-5517.
122. CORRADO S., BALESTRA M., **ALDEGA L.**, GASPARO MORTICELLI M., RUDKIEWICZ J-L., SASSI W., SULLI A. (2019). *1D and 3D modelling of paleothermal indicators as a tool for reconstructing the kinematic evolution of the Sicilian fold-and-thrust belt (Italy).* EGU General Assembly, 7-12 April, Wien (Austria), Geophysical Research Abstracts Vol. 21, EGU2019-8735.
123. CURZI M., CARMINATI E., **ALDEGA L.**, BERRA F., BILLI A., VAN DER LEIJ R., VIOLA G. (2019). *Architecture and evolution of an extensionally-inverted thrust (Monte Tancia thrust, central Apennines, Italy): geological, structural, geochemical, and K-Ar geochronological constraints.* Congresso SIMP-SGI-SOGEI 2019, 16-19 Settembre, Parma, Abstract volume, 468.
124. ATOUABAT A., ZAGHLOUL M.N., CORRADO S., SCHITO A., FRIZON DE LAMOTTE D., MOHN G., GIMENO O., **ALDEGA L.** (2019). *The Maghrebian Flysch Basin accretionary wedge in the western Rif Belt (Morocco): paleo-thermal and structural constraints.* Journée des Jeunes Chercheurs en Géosciences (3^{èmes} JJCG-2019), 18-19 April 2019, Kenitra, Morocco.
125. CARBONI F., VIOLA G., **ALDEGA L.**, VAN DER LEIJ R., BARCHI M.R. (2019). *New geochronological constraints on the tectonic evolution of the Tertiary Tuscan Nappe (Northern*

Apennines) by *K-Ar fault gouge dating*. 12th Geosymposium of Young Researchers “Silesia 2019”, 2-4 September 2019, Tarnowskie Góry, Poland.

126. VANNUCCHI P., CLARKE A.P., DE MONTSERRAT A., OUGIER-SIMONIN A., ALDEGA L., MORGAN J.P. (2019). *The strength inversion origin of non-volcanic tremor: observations and models*. abstract #T52A-05, AGU Fall Meeting 2019 San Francisco, 9-13th December.
127. MARCÉN, M., CASAS-SAINZ, A., ROMÁN-BERDIEL, T., OLIVA-URCIA, B., SOTO, R., GARCÍA-LASANTA, C., CALVIN, P., GIL-IMAZ, A., ALDEGA, L. (2020). *Magnetic fabric in brittle faults and ductile shear-zones: Examples from cataclasites from the Iberian Peninsula*. EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-207, <https://doi.org/10.5194/egusphere-egu2020-207>.
128. CURZI M., BILLI A., CARMINATI E., ALBERT R., ALDEGA L., BERNASCONI S., BOSCHI C., CARACAUSI A., CARDELLO L., CONTI A., DRIVENES K., FRANCHINI S., GERDES A., RIZZO A.L., ROSSETTI F., SMERAGLIA L., SØRENSEN B.E., VAN DER LELIJ R., VIGNAROLI G., VIOLA G. (2020). *Deciphering orogenic and post-orogenic fluid-assisted deformations by coupling structural, mineralogical, geochemical, and geochronological investigation methods. An example from Zannone Island, Italy*. EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-970, <https://doi.org/10.5194/egusphere-egu2020-970>.
129. CARBONI, F., VIOLA, G., ALDEGA, L., VAN DER LELIJ, R., BROZZETTI, F., AND BARCHI, M. R. (2020). *K-Ar dating of recent thrusts: an application to the Tertiary clay gouges in the Northern Apennines of Italy*. EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-13888, <https://doi.org/10.5194/egusphere-egu2020-13888>.
130. MORGAN J.P., DE MONTSERRAT NAVARRO A., VANNUCCHI P., CLARKE A.P., OUGIER-SIMONIN A., ALDEGA L. (2020). *The strength inversion origin of non-volcanic tremor: models and observations* EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-10070, <https://doi.org/10.5194/egusphere-egu2020-10070>.
131. SMERAGLIA L., ALDEGA L., BERNASCONI S., BILLI A., BOSCHI C., CARACAUSI A., CARMINATI E., FRANCHINI S., RIZZO A.L., ROSSETTI F., VIGNAROLI G. (2020). *Deformation mechanisms and syntectonic fluid circulation within intra-wedge tectonic mélange*. 36th International Geological Congress, 2-8 March 2020, New Delhi, India.
132. ZUCCARI C., VIOLA G., VIGNAROLI G., ALDEGA L. (2021). *What steers deformation within fold-and-thrust belts: insights from the carbonate multilayer footwall of the Belluno Thrust, Italian eastern Southern Alps*. EGU General Assembly 2021, 19–30 April 2021, EGU21-1068
133. MERCURI M., CARMINATI E., ALDEGA L., TRIPPETTA F. (2021). *Geometry and topology of fractures and faults affecting anticlines in the Zagros fold-and-thrust belt: a multiscale approach*. EGU General Assembly 2021, 19–30 April 2021, EGU21-7774
134. DELCHIARO M., IACOBUCCI G., TROIANI F., DELLA SETA M., BALLATO P., ALDEGA L. (2021). *Middle Holocene environmental reconstruction and climatic inferences through multi-proxy records from Seymareh lake sediments (Zagros Mts., Iran)*. EGU General Assembly 2021, 19–30 April 2021, EGU21-12511.
135. MARCHESINI B., MIRABELLA F., ALDEGA L., PETRELLI M., CARMINATI E., BARCHI M.R. (2021). *Circulation of sulfate-rich fluids along extensional faults in the Apennines: an example from the Gubbio normal fault*. 90° congresso SGI, 13-17 September 2021, online. Sessione S29
136. INNAMORATI G., FABBI S., ALDEGA L., MARINO M., PIGNATTI J., SANTANTONIO M. (2021). *Sedimentological and biostratigraphic characterization of the Paludi Formation (Longobucco Basin, north-eastern Calabria): proto-Apenninic shortening of an Alpine foredeep?* 90° congresso SGI, 13-17 September 2021, online. Sessione 2-16
137. VOLPE G., POZZI G., CARMINATI E., BARCHI M.R., SCUDERI M.M., ALDEGA L., MARONE C., COLLETTINI C. (2021). *Structural and frictional heterogeneities within the Apenninic basement and implications for the seismicity cutoff*. ERC Tectonic workshop, Rome 2021.

138. ZUCCARI C., VIOLA G., VIGNAROLI G., **ALDEGA L.** (2021). *What steers deformation in carbonate multilayer systems? New perspectives from the Belluno Thrust, Italian eastern Southern Alps*. Be geoscientists, 1° congresso nazionale di giovani geoscientisti, Napoli 7-10 October.
139. CURZI M., **ALDEGA L.**, BILLI A., CARMINATI E., VAN DER LELIJ R., VIOLA G. (2021). *Unravelling brittle faulting in time and space combining structural and X-ray diffraction analysis with K-Ar dating of synkinematic clay minerals. Examples from the central Apennines*. 51ST TSG AGM, ONLINE, 2021.
140. MARRAS G., BRANDANO M., TOMASSETTI L., MORELLI G., RIMONDI V., **ALDEGA L.**, BARBERIO M.D., PRETO N., STAGNO V. (2022). *Geochemical and mineralogical investigations of the Bonarelli level (Gubbio, Italy): evidence of Hg anomalies*. EGU 2022, Vienna 23-27 Maggio 2022, EGU22-377.
141. ZUCCARI C., VIOLA G., SIMPSON G., CURZI M., **ALDEGA L.**, VIGNAROLI G. (2022). *Fold evolution and the transition from folding to faulting: New insights from the carbonate multilayer succession of the Italian Eastern Southern Alps*. EGU 2022, Vienna 23-27 Maggio 2022, EGU22-10312.
142. ZUCCARI C., VIOLA G., CURZI M., SIMPSON G., **ALDEGA L.**, VIGNAROLI G. (2022). *New perspectives on the folding to faulting transition in carbonate multilayer successions. Insights from the fold-and-thrust belt of the Italian Eastern Southern Alps*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 1098.
143. INNAMORATI G., **ALDEGA L.**, FABBI S., SANTANTONIO M. (2022). *From Jurassic rifting to early Miocene shortening: polyphase history of the Longobucco/Paludi welded basins (northern Calabria)*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 893.
144. RUSCITTO V., TOMASSETTI L., CORNACCHIA I., LIRER F., CASCELLA A., **ALDEGA L.**, CATANZARITI R., TRAPASSO F., BRANDANO M. (2022). *The stratigraphic expression of the Middle Eocene Climatic Optimum (MECO) in a mixed siliciclastic carbonate system: the Capo Mortola section (Ligurian Alps, Italy)*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 854.
145. RUSCITTO V., TOMASSETTI L., CORNACCHIA I., LIRER F., **ALDEGA L.**, CATANZARITI R., TRAPASSO F., BRANDANO M. (2022). *The MECO (Middle Eocene Climatic Optimum) in the Capo Mortola section (Ligurian Alps, Italy)*. Convegno Geosed 2022, Bari, 13-17 Giugno 2022.
146. RUSCITTO V., TOMASSETTI L., CORNACCHIA I., LIRER F., CASCELLA A., **ALDEGA L.**, CATANZARITI R., TRAPASSO F., BRANDANO M. (2022). *The stratigraphic expression of MECO (Middle Eocene Climatic Optimum) in the Capo Mortola section (Ligurian Alps, Italy)*. C⁴ Workshop – Climate change and carbon cycle, Pisa, 22-24 Giugno 2022.
147. CURZI M., VIOLA G., **ALDEGA L.**, BILLI A., CARMINATI E., ZUCCARI C., VAN DER LELIJ R., KYLANDER-CLARK A.R.C., VIGNAROLI G. (2022). *Tectonics of the Eastern Southern Alps: a perspective from new structural and radiometric constraints*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 1080.
148. MARCHESINI B., TAVANI S., MERCURI M., **ALDEGA L.**, MONDILLO N., PIZZATI M., BALSAMO F., CARMINATI E. (2022). *Structural and permeability evolution in the lithocap of a fossil geothermal system (Allumiere quarry, northern Latium, Italy)*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 269.
149. MERCURI M., TAVANI S., **ALDEGA L.**, TRIPPETTA F., BIGI S., CARMINATI E. (2022). *Multiscale characterization of a fracture network using NetworkGT and open-source aerial images: the Kuh-e-Asmari anticline case study in Zagros Mts., Iran*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 245.
150. SCHIRRIPIA SPAGNOLO G., **ALDEGA L.**, BERNASCONI S., BILLI A., CARMINATI E., SMERAGLIA L. (2022). *Reconstruction of paleo-fluid flow along the Val d'Agri extensional faults systems (Southern Apennines, Italy)*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 1088.

151. VIOLA G., MUSUMECI G., MAZZARINI F., TAVAZZANI L., TORGERSEN E., VAN DER LELIJ R., **ALDEGA L.** (2022). *Structural characterization and K-Ar illite dating of reactivated, complex and heterogeneous fault zones: Lessons from the Zuccale Fault, Northern Apennines*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 1093.
152. VOLPE G., POZZI G., CARMINATI E., BARCHI M.R., SCUDERI M.M., TINTI E., ALDEGA L., MARONE C., COLLETTINI C. (2022). *Frictional control on the base of the seismogenic zone: insights from the Apenninic basement, Central Italy*. Congresso SGI-SIMP, Torino 19-21 Settembre 2022, Abstract book, 818.
153. MERCURI M., TAVANI S., **ALDEGA L.**, TRIPPETTA F., BIGI S., CARMINATI E. (2022). *Multiscale characterization of the fracture network affecting the Kuh-e-Asmari anticline (Zagros Mts., Iran), using NetworkGT and open-source aerial images*. AAPG meeting- Carbonate Sequences and Reservoirs, 22-23 Giugno 2022, Napoli.
154. MERCURI M., TAVANI S., **ALDEGA L.**, TRIPPETTA F., BIGI S., CARMINATI E. (2023). *The usage of open-source aerial images for the characterisation of a fracture network. Insights from a multi-scale approach in the Zagros Mts*. EGU 2023, Vienna 23-28 Aprile 2023, EGU23-4909.
155. SCHIRIPA SPAGNOLO G., AGOSTA F., **ALDEGA L.**, BILLI A., BERNASCONI S., PROSSER G., SMERAGLIA L., CARMINATI E. (2023). *Upper Miocene to Present fault architecture and fluid pathways in the Val d'Agri basin (southern Italy)*. EGU 2023, Vienna 23-28 Aprile 2023, EGU23-1686.
156. SCHARF A., **ALDEGA L.**, MATTERN, F., CARMINATI E. (2023). *Late Miocene to Present erosion of the Masirah allochthon and its cover based on clay minerals and thermal modeling, Batain area, eastern Sultanate of Oman*. EGU 2023, Vienna 23-28 Aprile 2023, EGU23-1772.
157. CURZI M., **ALDEGA L.**, BILLI A., BOSCHI C., CARMINATI E., VIGNAROLI G., VIOLA G., BERNASCONI S. (2023). *Fluid-rock chemical-physical equilibrium/disequilibrium inferred from tectonic carbonates in the Apennines (Italy): an advanced approach to track seismic cycles and earthquakes*. EGU 2023, Vienna 23-28 Aprile 2023, EGU23-6476.
158. VIGNAROLI G., CURZI M., ZUCCARI C., **ALDEGA L.**, BILLI A., CARMINATI E., VAN DER LELIJ R., KYLANDER-CLARK A., VIOLA G. (2023). *Long-term tectonic evolution of the Eastern Southern Alps (Italy): a reappraisal from new structural and radiometric constraints*. EGU 2023, Vienna 23-28 Aprile 2023, EGU23-16650.
159. MARCHESINI B., TAVANI S., MERCURI M., **ALDEGA L.**, MONDILLO N., PIZZATI M., BALSAMO F., CARMINATI E. (2023). *Structurally controlled kaolinite-alunite mineralization in the lithocap of a fossil geothermal system*. EGU 2023, Vienna 23-28 Aprile 2023, EGU23-15099.
160. PIZZATI M., LIETA N., TORABI A., **ALDEGA L.**, STORTI F., BALSAMO F. (2023). *Evidence for coseismic slip preserved in high-porosity sandstone at very shallow burial conditions (Croton Basin, Italy)*. EGU 2023, Vienna 23-28 Aprile 2023, EGU23-6468.
161. CORNACCHIA I., **ALDEGA L.**, CATANZARITI R., CASCELLA A., LIRER F., TRAPASSO F., AVERSA L., BRANDANO M. (2023). *Increased Biogeochemical weathering during the middle Eocene climatic optimum (MECO): insights from trace element analyses and Sr isotope ratios from a shallow water carbonate succession of the Ligurian Alps (Northern Italy)*. 36th International Meeting of Sedimentology, Dubrovnik, June 12-16 2023.
162. CORNACCHIA I., **ALDEGA L.**, CATANZARITI R., CASCELLA A., LIRER F., TRAPASSO F., AVERSA L., BRANDANO M. (2023). *The impact of the Middle Eocene Climatic Optimum (MECO) on a shallow-water succession of the Ligurian Alps (Northern Italy)*. Congresso GeoSed 2023, 25 Giugno – 1 Luglio, Torino.
163. MORETTO V., VIOLA G., VIGNAROLI G., CURZI M., DALLAI L., **ALDEGA L.** (2023). *The origin of neoformed clay minerals in fault zones: an example from the Carboneras Fault, Betic Cordilleras, Spain*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 907.
164. VIOLA G., CURZI M., MORETTO V., **ALDEGA L.**, VIGNAROLI G. (2023). *High-resolution multidisciplinary studies of fault zone architectures: A futile exercise or a necessary insight into*

fault mechanics and seismogenesis? Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 918.

165. SCHIRRIPA SPAGNOLO G., AGOSTA F., **ALDEGA L.**, PROSSER G., SMERAGLIA L., TAVANI S., BERNASCONI S., BILLI A., CARMINATI E. (2023). *Structural architecture and maturity of the seismically active and hydrocarbons productive Val d'Agri basin (Southern Italy)*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 874.
166. MARRAS G., STAGNO V., **ALDEGA L.**, BARBERIO M.D., BENEDETTI F., CORNACCHIA I., MORELLI G., PRETO N., RIMONDI V., BRANDANO M. (2023). *Searching for large magmatic events signature in the sedimentary record: a mineralogical, geochemical and isotopic study of the Bonarelli level (Gubbio, Italy)*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 753.
167. CURZI M., **ALDEGA L.**, A. BILLI A., BOSCHI C., CARMINATI E., VIGNAROLI G., VIOLA G., BERNASCONI S.M. (2023). *Closed vs. Open fluid-rock-fault systems tracked by structural, geochemical, geochronological, and thermal constraints*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 863.
168. TAVANI S., SMERAGLIA L., FABBI S., **ALDEGA L.**, SABBATINO M., CARDELLO G.L., MARESCA A., SCHIRRIPA SPAGNOLO G., KYLANDER-CLARK A., BILLI A., BERNASCONI S.M., CARMINATI E. (2023). *Thrusting and negative inversion along the Circeo thrust, central Apennines*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 917.
169. STAGNO V., BOVENZI J., MARRAS G., **ALDEGA L.**, CORNACCHIA I., MANCINI A., MARIANELLI D., MORELLI G., RIMONDI V., BRANDANO M. (2023). *Petrography, mineralogy and geochemistry of the K/Pg layer at the Bottaccione Gorge of Gubbio, Italy*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 671.
170. INNAMORATI G., FABBI S., **ALDEGA L.**, SANTANTONIO M. (2023). *Apennines, what Apennines? The hidden orogeny*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 732.
171. ZANCHI A., ZANCHETTA S., ROCCA M., MONTEMAGNI C., **ALDEGA L.**, KYLANDER-CLARK A., VIOLA G. (2023). *New geochronological data confirm Late Cretaceous thrusting in the Italian central Southern Alps*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 856.
172. PIZZATI M., LIETA N., TORABI A., **ALDEGA L.**, STORTI F. & BALSAMO F. (2023). *Scar left by a fossil earthquake: coseismic deformation affecting high-porosity sandstone under shallow burial conditions (Crotone Basin, Italy)*. Congresso congiunto SIMP, SGI, SOGEI, AIV, Potenza 19-21 Settembre 2023, Abstract book 870.
173. POZZI G., ACHTZIGER-ZUPANČIČ P., **ALDEGA L.**, CECCATO A., COLLETTINI C., ESCALLON D., HERTRICH M., MA X., MEIER M-A., OSTEN J., SHAKAS A., SPAGNUOLO E., VOLPE G., ZAPPONE A., AMANN F., COCCO M., GIARDINI D., WIEMER S. (2023). *The candidate fault for fluid-induced earthquake rupture experiments in the Rotondo granite*. AGU 2023 fall meeting, 11-15 Dicembre 2024, San Francisco, USA.
174. SCHIRRIPA SPAGNOLO G., BERNASCONI S.M., **ALDEGA L.**, CASTORINA F., AGOSTA F., BILLI A., PROSSER G., SMERAGLIA L., CARMINATI E. (2024). *The Isotope and REY geochemistry of fault-related calcites document syn-kinematic fluid distribution along the Val d'Agri faults (southern Italy)*. EGU 2024, Vienna 14-19 Aprile 2024, EGU24-1982.
175. ZUCCARI C., MAZZARINI F., TAVARNELLI E., VIOLA G., **ALDEGA L.**, VAN DER LELIJ R., MUSUMECI G. (2024). *Evolution and activation of an orogen-scale shear zone in the northern Aegean Rift System: insights from the Mykonos Detachment, Cyclades, Greece*. EGU 2024, Vienna 14-19 Aprile 2024, EGU24-1615.
176. MORETTO V., DEL SOLE L., CURZI M., DALLAI L., VIGNAROLI G., VIOLA G., BALSAMO F., BERIO L.R., GRATHOFF G., WARR L.N., **ALDEGA L.** (2024). *Tracing the origin of parental fluids and paleo-temperature distribution in fault zones: case studies from the Carboneras Fault (Spain) and Lemnos Island (Greece)*. Vienna 14-19 Aprile 2024, EGU24-4381.

177. FIORINI A., ALDEGA L., DALLAI L., DI MARCANTONIO E., ROCCA M., TAVANI S., ZANCHETTA S., ZANCHI A., CARMINATI E. (2024). *Multiple tectonic phases and fluids variability along transverse zones of the Central Southern Alps (Lombardy, Italy)*. EGU 2024, Vienna 14-19 Aprile 2024, EGU24-4663.
178. PIZZATI M., TORABI A., ALDEGA L., CAVOZZI C., STORTI F., BALSAMO F. (2024). *Pleistocene near-surface earthquake events recorded in high-porosity fluvial sandstone sequence (Crotona forearc Basin, Italy)*, EGU 2024, Vienna 14-19 Aprile 2024, EGU24-6361.
179. DEL SOLE L., VIGNAROLI G., MORETTO V., CURZI M., ALDEGA L., VAN DER LELIJ R., VIOLA G. (2024). *A reappraisal of the Carboneras Fault (SE Spain) from new structural, geochronological and thermal constraints*. EGU 2024, Vienna 14-19 Aprile 2024, EGU24-11036.
180. ZANCHI A., ZANCHETTA S., ROCCA M., MONTEMAGNI C., ALDEGA L., KYLANDER-CLARK A., FIORINI A., CARMINATI E. (2024). *U-Pb calcite geochronology attests Late Cretaceous S-verging thrusting in the central Southern Alps, Italy*. EGU 2024, Vienna 14-19 Aprile 2024, EGU24-10919.
181. MARRAS G., STAGNO V., ALDEGA L., BARBERIO M.D., BENEDETTI F., CORNACCHIA I., LABIDI J., MORELLI G., PRETO N., RIMONDI V., BRANDANO M. (2024). *The Bonarelli level (Gubbio, Italy) reveals a potential correlation between the occurrence of oceanic anoxic events and large-scale magmatic activity*. Vienna 14-19 Aprile 2024, EGU24-18517.
182. ZANCHETTA S., ROCCA M., MONTEMAGNI C., VIOLA G., ALDEGA L., ZANCHI A. (2024). *Evolution in space and time of a regional-scale fault: example from the Orobic Thrust (European Alps, Southalpine Domain)*. Vienna 14-19 Aprile 2024, EGU24-16253.
183. DI BUDUO G.M., GAETA M., PALLADINO D.M., MARRA F., ALDEGA L., VINGIANI S., MARINARI S. (2024). *Paleo-geomorphological and mineralogical evidence for the definition of timing and climate framework of paleosols of in the Paleovulsini volcano (Vulsini Volcanic District, central Italy)*. Centennial IUSS 2024 Congress, Firenze 19-21 Maggio 2024.
184. DI BUDUO G.M., GAETA M., PALLADINO D.M., MARRA F., ALDEGA L., VINGIANI S., MARINARI S. (2024). *Bedrock in the paleosols sequence at Latera Volcano (Vulsini Volcanic District, central Italy) to define timing and climatic features in the middle Pleistocene (226-253 ka)*. Centennial IUSS 2024 Congress, Firenze 19-21 Maggio 2024.
185. MORETTO V., DEL SOLE L., CURZI M., DALLAI L., VIGNAROLI G., VIOLA G., ALDEGA L. (2024). *Time-space evolution of synkinematic clay minerals in the Carboneras fault zone traced by X-ray diffraction, H and O isotopes, and K-Ar dating*. Benelux Association of stable isotope Scientists, Annual meeting, Amsterdam 25-26 Aprile, Abstract book, 59.
186. DEL SOLE L., VIGNAROLI G., MORETTO V., CURZI M., ALDEGA L., VAN DER LELIJ R., VIOLA G. (2024). *Understanding fault architecture evolution in space and time: new structural, geochronological and thermal constraints from the Carboneras Fault (SE Spain)*. DRT-2024 Barcelona, 9-11 Luglio 2024.
187. SCHIRRIPA SPAGNOLO G., BEAUBIEN S., MARCHESINI B., BERNASCONI S.M., AGOSTA F., PROSSER G., CASTORINA F., ALDEGA L., TAVANI S., BIGI S., SMERAGLIA L., NOVELLA D., RUGGIERI G., BILLI A., CARMINATI E. (2024). *Structural control on the upwelling of fluids from the Val d'Agri hydrocarbon reservoir (Southern Italy)*. DRT-2024 Barcelona, 9-11 Luglio 2024.
188. ZUCCARI C., TAVARNELLI E., MAZZARINI F., VIOLA G., ALDEGA L., MORETTO V., VAN DER LELIJ R., MUSUMECI G. (2024). *Fault architecture, age and deformation localisation history of the Mykonos Detachment, Cyclades, Greece*. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.
189. MARCHESINI B., ROSSETTI F., RUGGIERI G., CAVALLO A., MORETTO V., CASTORINA F., TRIPPETTA F., ALDEGA L., NOVELLA D., BILLI A., CARMINATI E. (2024). *Alteration-controlled repeated breakage of hydrothermally altered marly-limestones seals, Fenice-Capanne mining area (Tuscany, Italy)*. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.
190. MORETTO V., DEL SOLE L., CURZI M., DALLAI L., VIGNAROLI G., VIOLA G., ALDEGA L. (2024). *Paleothermal indicators and H, O stable isotopes for constraining temperature and fluid*

evolutionary models of complex fault zones: a new approach. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.

191. DEL SOLE L., VIGNAROLI G., MORETTO V., CURZI M., **ALDEGA L.**, VAN DER LELIJ R., VIOLA G. (2024). *Unveiling complex fault architecture evolution through (micro)structural, geochronological and petrophysical investigations: the case of the Carboneras Fault (SE Spain)*. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.
192. AVERSA L., CORNACCHIA I., **ALDEGA L.**, CATANZARITI R., GORI F., MARIANELLI D., BRANDANO M. (2024). *Clay minerals, trace elements and stable isotope geochemistry reveal increased biogeochemical weathering during the Middle Eocene Climatic Optimum: The Ligurian Alps record (northern Italy)*. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.
193. MONTEMAGNI C., ROCCA M., ZANCHI A., FAVARO S., VIOLA G., **ALDEGA L.**, ZANCHETTA S. (2024). *Long-lived activity of a regional thrust-system in a pre-collisional setting: The Orobic Thrust (Southern Alps, N Italy)*. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.
194. PIZZATI M., ARETUSINI S., SPAGNUOLO E., **ALDEGA L.**, TORABI A., STORTI F., BALSAMO F. (2024). *Shallow earthquakes affecting high-porosity rocks in forearc basin settings: a combined meso-microstructural, mineralogical, and experimental approach*. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.
195. ROCCA M., ZANCHETTA S., MONTEMAGNI C., **ALDEGA L.**, FIORINI A., CARMINATI E., KYLANDER-CLARK A., ZANCHI A. (2024). *New insights on the Late Cretaceous S-verging thrusting in the central Southern Alps: clues from structural, geochemical, and geochronological analyses*. Congresso congiunto SIMP-SGI, Bari 3-5 Settembre 2024, Abstract book.
196. FIORINI A., TAVANI S., **ALDEGA L.**, BERNASCONI S., DALLAI L., KYLANDER-CLARK A., ROCCA M., ZANCHETTA S., ZANCHI A., CARMINATI E. (2024). *Control of pre-orogenic inherited faults on Alpine thrusting and fluid circulation: an example from transverse zones of the Central Southern Alps (Lombardy, Italy)*. 16th EGU Émile Argand Conference on Alpine geological studies, Siena, 16-17 September 2024.
197. ZANCHETTA S., ROCCA M., MONTEMAGNI C., **ALDEGA L.**, KYLANDER-CLARK A., FIORINI A., CARMINATI E., ZANCHI A. (2024). *Late Cretaceous S-verging thrusting in the central southern Alps (N Italy) proved by U-Pb syn-tectonic calcite geochronology*. 16th EGU Émile Argand Conference on Alpine geological studies, Siena, 16-17 September 2024.

Roma, 26/06/2024

F.to Luca ALDEGA

Il presente documento è redatto in conformità a quanto prescritto dall'Art.4 del Codice in materia di protezione dei dati personali e dell'art. 26 del D.Lgs. 14 Marzo 2013, n.33, al fine della pubblicazione