

Fabrizio Mollaioli

Curriculum Vitae

Rome
December 23rd, 2020

Part I – Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	1989	Sapienza University of Rome	Laurea quinquennale in Ingegneria Civile Five years degree in Civil Engineering
PhD	1996	Sapienza University of Rome	Dottorato in Ingegneria delle Strutture PhD in Structural Engineering
Licensure 01	1991-2000	Ordine degli Ingegneri della Provincia di Perugia Charter of Professional Engineers of Perugia	Professional Engineer
Licensure 02	2001	Ordine degli Ingegneri della Provincia di Roma (per trasferimento) Charter of Professional Engineers of Rome	Professional Engineer

Part II – Appointments

IIA – Academic Appointments

Start	End	Institution	Position
2013	Present	Sapienza University of Rome	Professore Associato settore ICAR09 Associate professor in Structural design
2007	2013	Sapienza University of Rome	Professore Associato settore ICAR08 Associate professor in Structural mechanics
2000	2007	Sapienza University of Rome	Ricercatore settore ICAR08 Assistant professor in Structural mechanics
2013	Present	Sapienza University of Rome	Membro del Collegio del dottorato di Ingegneria Strutturale e Geotecnica Committee, Doctoral program in Structural Engineering and Geotechnics
2007	2012	Sapienza University of Rome	Membro del Collegio del dottorato di Ingegneria Geotecnica Committee, Doctoral program in Geotechnical Engineering
2015	Present	Sapienza University of Rome	Membro del Comitato di Coordinamento dell' Area Didattica 1 – Architettura U.E. della Facoltà di Architettura (carica elettiva) Faculty council (restricted, elective)
2009	2011	Sapienza University of Rome	Membro della Giunta del Dipartimento di Ingegneria Strutturale e Geotecnica Department council (restricted, elective)
2005	2014	Sapienza University of Rome	Membro del Comitato di Coordinamento dell' Area Didattica 1 – Architettura U.E. della Facoltà di Architettura “L. Quaroni” Faculty council
2006	2006	Politecnico di Torino	Membro eletto della Commissione per la Valutazione comparativa per la copertura di un posto di ricercatore universitario di ruolo per il settore ICAR/08, presso la I Facoltà di

2019	2019	Università degli Studi G. d'Annunzio Chieti-Pescara	Ingegneria del Politecnico di Torino. 2006. Membro della Commissione per la Procedura Comparativa di un posto di Ricercatore a Tempo Determinato di tipo B (RDTB) nel settore ICAR/09 presso l'Università degli Studi G. d'Annunzio Chieti-Pescara. 2019
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IIB – Other Appointments

Start	End	Institution	Position
1990	1999	Consiglio Nazionale delle Ricerche (CNR) National Research Council, presso il Gruppo Nazionale per la Difesa dai Terremoti (GNDT) National Group the Defense against Earthquakes (GNDT) of the National Research Council (CNR)	Ricercatore Researcher
1997	2005	Gruppo Nazionale per la Difesa dai Terremoti (GNDT/CNR) e Sapienza Università di Roma National Group for the Defense against Earthquakes and Sapienza University of Rome	Membro del Comitato Tecnico Scientifico della Regione Umbria, istituito con Ordinanza n. 2668 a seguito del terremoto Umbro-Marchigiano del 1997, a supporto delle Autorità Locali nelle operazioni di valutazione di vulnerabilità, ricostruzione e preparazione dei regolamenti inerenti ai programmi di riduzione del rischio sismico Technical and Scientific Committee of the Umbria Region, established by Ordinance n. 2668, after the 1997 Umbria-Marche earthquake, in charge of support local authorities involved in seismic vulnerability assessment, post-earthquake reconstruction activities and in preparing and writing regulations for seismic reduction programs.
2014	Present	Earthquake and Structures, Techno-Press	Editorial Board member
2016	Present	Advances in Civil Engineering, Hindawi Publishing Corporation	Editorial Board member
2015	Present	Frontiers in Built Environment, section: Earthquake Engineering	Editorial Board member
2012	Present	Open Journal of Earthquake Research, Scientific Research	Editorial Board member
2010	2011	International Federation of Structural Concrete (<i>fib</i>)	Task Group WP 4.4.7 Non-Linear Dynamic Analysis for Seismic Evaluation of RC Frames, Member
2020	2020	Politecnico di Torino	PhD Examiner Membro della Commissione per l'esame finale del dottorato in Civil and Environmental Engineering, Politecnico di Torino. 17/09/2020.
2017	2017	University of Granada (Spain)	PhD Examiner Membro della Commissione per l'esame finale del dottorato della ETS Architecture of the University of Granada, 17 luglio 2017
2015	2015	University of Granada (Spain)	PhD Examiner Membro della Commissione per l'esame finale del dottorato della ETS Architecture of the University of Granada, 29 settembre 2015
2015	2015	Università di Napoli "Federico II	PhD Examiner Membro della Commissione d'esame finale per il Dottorato in Rischio Sismico, Università di Napoli "Federico II, 21 maggio 2015

2013	2013	University of Granada (Spain)	PhD Examiner Membro della Commissione per l'esame finale del dottorato della ETS Architecture of the University of Granada, 22 novembre 2013
2013	2013	University of Granada (Spain)	PhD Examiner Membro della Commissione per l'esame finale del dottorato della ETS Architecture of the University of Granada, 5 giugno 2013
2012	2012	Universitat Politècnica del Catalunya (UPC), Spain	PhD Examiner Membro della Commissione per l'esame finale del dottorato della Escola Tècnica Superior d'Enginyers de Camins, Canals i Ports de Barcelona, Departament d'Enginyeria del Terreny, Cartogràfica i Geofísica del Universitat Politècnica del Catalunya (UPC), 7 settembre 2012
2011	2011	Università degli Studi "G. D'Annunzio" di Chieti-Pescara	PhD Examiner Membro della Commissione giudicatrice per il conferimento del titolo di Dottore di Ricerca per il corso di Dottorato in "Progetto, Analisi e Sperimentazione di Strutture", XXII-XXIII ciclo, Università degli Studi "G. D'Annunzio" di Chieti-Pescara, Aprile 2011.

Part III – Teaching experience

Year	Institution	Lecture/Course
From 2015	Sapienza University of Rome	Laboratorio di Sintesi in Progettazione e Riabilitazione Strutturale Final Design Lab in Structural Design and Rehabilitation
2014-2015	Sapienza University of Rome	Laboratorio di Progettazione Strutturale Structural Design Lab
2013-2014	Sapienza University of Rome	Laboratorio di Costruzioni Structural Design Lab
2012-2013	Sapienza University of Rome	Laboratorio di Costruzioni Structural Design Lab
From 2005 to 2015	Sapienza University of Rome	Modulo di Progetto di Strutture per il Laboratorio di Sintesi in Composizione e Progettazione Urbana Structural Design Module for the Final Lab in Urban Composition and Design
From 2000 to 2012	Sapienza University of Rome	Statica e Teoria delle Strutture Statics and Structural Theory
2015-2016	Università degli studi di Roma Tre, Sapienza University of Rome	Master "EuroProject - Progettazione Strutturale Avanzata con gli Eurocodici Master "EuroProject - Advanced Structural Design with Eurocodes.
2012	Sapienza University of Rome	Master in "Evaluation Control and Reduction of Environmental Seismic Risk (EU-NICE)

Part IV - Society memberships, Awards and Honors

Year	Title
From 2019	Membro del Board of Directors of the International research group EBSENet (Energy-Based Seismic Engineering Network), https://sites.google.com/view/ebsenet/home
From 2019	Member of the International Association of Structures and Architecture (www.structures-architecture.org)

From 2015	Member of the International SPONSE Association, International association for the seismic performance of non-structural elements (http://www.sponse.eu/)
From 1995	Member of the Seismological Society of America
From 2020	Member of the Earthquake Engineering Research Institute (EERI)
1996-2000	Member of the Earthquake Engineering Research Institute (EERI)
2019	Invited lecture at the Workshop “Sustainable Development of Civil Engineering”, ZJU-UIUC Institute of Zhejiang University, China
2016	Invited lecture at the University of British Columbia, Campus of Kelowna, Canada
2001	Invited lecture at the Indo-Italian Workshop on Seismic Risk Analysis, National Geophysical Research Institute a Hyderabad, India

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

Year	Title	Program	Grant value
2019	Towards a comprehensive framework for energy-based seismic assessment and design of structures PI	Progetto di Ricerca Grande Sapienza (con assegno di ricerca)	€63.387,00
2018	Determination of the parameters of the directivity pulses and evaluation of the effects of near-fault ground motions on structural response PI	Progetto di Ricerca Medio Sapienza	€14.000,00
2018	RINTC "Rischio implicito NTC" (WP4 – cemento armato gettato in opera) PI	Progetto Esecutivo DPC-Reluis 2014-2018	€25.125,00
2017	RINTC "Rischio implicito NTC" (WP4 – cemento armato gettato in opera) PI	Progetto Esecutivo DPC-Reluis 2014-2018	€19.125,00
2016	RINTC "Rischio implicito NTC" (WP4 – cemento armato gettato in opera) PI	Progetto Esecutivo DPC-Reluis 2014-2018	€21.250,00
2015	RINTC "Rischio implicito NTC" (WP4 – cemento armato gettato in opera) PI	Progetto Esecutivo DPC-Reluis 2014-2018	€21.250,00
2014	Seismic performance of infrastructural systems in near-fault areas PI	Progetto di Ricerca Grande Sapienza (con assegno di ricerca)	€63.075,00
2012	Misure di intensità dell'azione sismica per la selezione di accelerogrammi e per la predizione della risposta strutturale PI	Progetto di Ricerca di Università, Sapienza	€13.500,00
2011	Domanda sismica di piano per la valutazione della vulnerabilità di elementi non strutturali PI	Progetto di Ricerca di Università, Sapienza	€15.000,00
2010	Caratterizzazione della domanda sismica near-fault PI	Progetto di Ricerca di Università, Sapienza	€15.000,00
2009	Terremoto de L'Aquila. Analisi della risposta degli edifici. Correlazione del danno con l'input sismico. Effetti di sito e di sorgente. PI	Progetto di Ricerca di Università, Sapienza	€25.500,00
2009	Valutazione di spettri di accelerazione di piano di strutture intelaiate per la caratterizzazione del danno degli elementi non strutturali PI	Progetto di ricerca dell'Ateneo Federato delle Scienze umane, Arti e Ambiente, Progetto di ricerca di Facoltà, Università di Roma “La Sapienza.	€2.500,00
2008	Caratterizzazione energetica del moto sismico nel near-fault mediante analisi	Progetto di ricerca dell'Ateneo Federato delle Scienze umane, Arti	€2.100,00

	wavelet PI	e Ambiente, Progetto di ricerca di Facoltà, Università di Roma "La Sapienza.	
2007	Studio della correlazione tra misure di intensità dell'azione sismica e parametri di danno per la stima della risposta strutturale PI	Progetto di ricerca dell'Ateneo Federato delle Scienze umane, Arti e Ambiente, Progetto di ricerca di Facoltà, Università di Roma "La Sapienza.	€1.500,00
2006	Valutazione dell'influenza delle tamponature sul comportamento sismico di strutture intelaiate in cemento armato PI	Progetto di ricerca di Facoltà, Università di Roma "La Sapienza.	€1.571,00
2005	Valutazione della correlazione tra le domande sismiche in termini di energia e di spostamento per sistemi a più gradi di libertà PI	Progetto di ricerca di Facoltà, Università di Roma "La Sapienza.	€1.850,00
2004	Studio della risposta di strutture intelaiate soggette ad eccitazioni sismiche di tipo near-fault PI	Progetto di ricerca di Facoltà, Università di Roma "La Sapienza.	€1.750,00
2002-2004	Estimation of vulnerability and seismic risk for selected mega-cities of high hazard, with particular reference to habitat safety PI with Dr. R.K.Bhandari (Centre for Disaster Mitigation & Management, India)	Indo-Italian Inter-Governmental s & t Cooperation Programme - Joint Research Project	Researcher mobility refunded
2018-2020	Numerical and experimental study on the seismic response of structures with hybrid dampers that combine viscous and hysteretic components Estudio numérico y experimental de la respuesta sísmica de estructuras con disipadores de energía híbridos que combinan componentes viscosas y elastoplásticas I	Ministerio de Economía y Competitividad, Spain	€148.830,00
2009-2010	Un territoire durable et un habitat de qualité à consommation zéro dans les zones à risques sismique I	Programme interdisciplinaire de recherche L'architecture de la grande échelle indetta dal Ministère Culture e dal Ministère Environnement, Paris, France	€37.500,00
2010-2013	Progetto speciale RS-2 Domanda sismica near-source ed effetti sulle strutture Special Project RS-2 Near-source seismic demand and structural response I	Progetto Esecutivo DPC-Reluis 2010-2013	€25.500,00
2004	Valutazione dell'influenza delle caratteristiche dinamiche dei terreni sul comportamento sismico di strutture in cemento armato con e senza tamponature I	Progetto di ricerca di Ateneo, Università di Roma "La Sapienza.	€23.300,00
2003	Correlazione tra gli effetti di sito (morfologici, stratigrafici e di direttività) e la risposta di sistemi intelaiati a più gradi di libertà I	Progetto di ricerca di Ateneo, Università di Roma "La Sapienza.	€24.300,00
2002	Valutazione degli effetti di sito per sistemi geotecnici e strutturali soggetti ad eccitazione sismica I	Progetto di ricerca di Ateneo, Università di Roma "La Sapienza.	€24.850,00

Part VI – Research Activities

Keywords	Brief Description
RC Buildings	The research was particularly oriented on: Seismic performance assessment of existing structures with and without infills (e.g. papers 5, 8); Energy-Based Seismic Design (e.g. papers 2, 10, 11, 15); Damage Potential of Earthquake Ground Motion (e.g. papers 4, 6, 12, 13, 14); Tall Buildings (e.g. papers 1, 7); Seismic demand on Nonstructural components (e.g. paper 9), Performance-based seismic assessment and design of buildings; Post-earthquake safety evaluation and vulnerability assessment of buildings (e.g. paper 3)
Infilled Frames	
Seismic Energy Demand	
Floor spectra	
Tall Buildings	

Part VII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international with IF]	43	Scopus	1998	2020
Papers [international without IF]	7	Scholar	2000	2018
Papers [national]	3	Scholar	2001	2015
Papers [conferences]	100	Scholar	1993	2019
Books chapters [scientific]	1	Scholar	2002	

Total Impact factor	76.193
Total Citations	1132 Scopus/ 2192 Scholar
Average Citations per Product	26.3 Scopus/ 17.5 Scholar
Hirsch (H) index	19 Scopus/ 24 Scholar
Normalized H index*	19/22=0.864 Scopus (first paper Scopus in the year 1998)

*H index divided by the academic seniority.

All data are obtained from the SCOPUS and Google Scholar databases on December 16, 2020

N.B. All values from SCOPUS databases are derived from the following table, that consider all publications with IF.

Impact factor values, IF, and citations for the SCOPUS publications with IF

#	Title	Source title	Year	IF	Year (IF)	Citations
1	Quantification of energy-related parameters for near-fault pulse-like seismic ground motions	Applied Sciences (Switzerland)	2020	2.474	2020	
2	An integrated topology optimization framework for three-dimensional domains using shell elements	Structural Design of Tall and Special Buildings	2020	2.048	2020	
3	Ground-motion prediction equations for constant-strength and constant-ductility input energy spectra	Bulletin of Earthquake Engineering	2020	2.602	2020	4
4	Seismic Demand on a Unreinforced Masonry Wall Restrained by Elasto-Plastic Tie-Rods Under Earthquake Sequences	International Journal of Architectural Heritage	2019	1.853	2019	
5	Seismic demand of the 2016–2017 Central Italy earthquakes	Bulletin of Earthquake Engineering	2019	2.602	2019	12
6	Analysis of near-fault pulse-like seismic signals through Variational Mode Decomposition technique	Engineering Structures	2019	3.548	2019	5
7	Modeling of the temperature rises in multiple friction pendulum bearings by means of thermomechanical rheological elements	Archives of Civil and Mechanical Engineering	2019	3.672	2019	1
8	Modeling and Seismic Response Analysis of Italian Code-Conforming Reinforced Concrete Buildings	Journal of Earthquake Engineering	2018	2.754	2018	19
9	A new method to predict the critical incidence angle for buildings under near-fault motions	Structural Engineering and Mechanics	2018	2.804	2018	
10	Seismic response prediction of reinforced concrete buildings through nonlinear combinations of intensity measures	Bulletin of Earthquake Engineering	2018	2.406	2018	7
11	Energy based design of a novel timber-steel building	Earthquake and Structures	2018	1.573	2018	3
12	In-plane response of masonry infill walls: Comprehensive experimentally-based equivalent strut model for deterministic and probabilistic analysis	Engineering Structures	2018	3.084	2018	14
13	On the use of the equivalent linearization for bilinear oscillators under pulse-like ground motion	Engineering Structures	2018	3.084	2018	5
14	Improved risk-targeted performance-based seismic design of reinforced concrete frame structures	Earthquake Engineering and Structural Dynamics	2018	3.419	2018	14
15	Diagrid structural systems for tall buildings: Changing pattern configuration through topological assessments	Structural Design of Tall and Special Buildings	2017	1.500	2017	10
16	Modelling of masonry infilled RC frames subjected to cyclic loads: State of the art review and modelling with OpenSees	Engineering Structures	2017	2.755	2017	44
17	Median floor acceleration spectra of linear structures with uncertain properties	Earthquake Engineering and Structural Dynamics	2017	2.807	2017	4
18	Uniform hazard floor acceleration spectra for linear structures	Earthquake Engineering and Structural Dynamics	2017	2.807	2017	14
19	Probabilistic seismic demand model for nonstructural components	Earthquake Engineering and Structural Dynamics	2016	1.974	2016	10
20	Effectiveness of design procedures for linear TMD installed on inelastic structures under pulse-like ground motion	Earthquake and Structures	2016	0.97	2016	15
21	Intensity measures for the seismic response prediction of mid-rise buildings with hysteretic dampers	Engineering Structures	2015	1.893	2015	22
22	Preliminary ranking of alternative scalar and vector intensity measures of ground shaking	Bulletin of Earthquake Engineering	2015	2.036	2015	64
23	Correlation of elastic input energy equivalent velocity spectral values	Earthquake and Structures	2015	0.789	2015	11
24	Displacement damping modification factors for pulse-like and ordinary records	Engineering Structures	2014	1.838	2014	27
25	Proposal of new ground-motion prediction equations for elastic input energy spectra	Earthquake and Structures	2014	0.693	2014	22
26	Strength and stiffness reduction factors for infilled frames with openings	Earthquake Engineering and Engineering Vibration	2014	0.729	2014	52
27	Floor response spectra for bare and infilled reinforced concrete frames	Journal of Earthquake Engineering	2014	1.175	2014	25
28	Intensity measures for the seismic response prediction of base-isolated buildings	Bulletin of Earthquake Engineering	2013	1.368	2013	75
29	Damage potential of the 2009 L'Aquila, Italy, earthquake	Journal of Earthquake and	2012	0.309	2012	22
30	Wavelet analysis for the characterization of forward-directivity pulse-like ground motions on energy basis	Meccanica	2012	1.747	2012	25
31	Intensity measures for response prediction of a torsional building subjected to bi-directional earthquake ground motion	Bulletin of Earthquake Engineering	2011	1.559	2011	31
32	Recorded motions of the 6 April 2009 Mw 6.3 L'Aquila, Italy, earthquake and implications for building structural damage: Overview	Earthquake Spectra	2010	3.744	2010	68
33	A comparison of nga ground-motion prediction equations to Italian data	Bulletin of the Seismological Society of America	2009	1.860	2009	107
34	Influence of site effects on inelastic displacement ratios for SDOF and MDOF systems	Computers and Mathematics with Applications	2008	0.997	2008	19
35	Characterization of the dynamic response of structures to damaging pulse-type near-fault ground motions	Meccanica	2006	0.400	2006	40
36	Estimation of near-source ground motion and seismic behaviour of RC framed structures damaged by the 1999 Athens earthquake	Journal of Earthquake Engineering	2005	0.679	2005	16
37	Role of damage functions in evaluation of response modification factors	Journal of Structural Engineering	2004	0.774	2004	10
38	Seismic hazard and seismic zonation of the region affected by the 2002 Molise, Italy, earthquake	Earthquake Spectra	2004	0.402	2004	10
39	Performance of reinforced concrete buildings during the 2002 Molise, Italy, earthquake	Earthquake Spectra	2004	0.402	2004	23
40	Performance of masonry buildings during the 2002 Molise, Italy, earthquake	Earthquake Spectra	2004	0.402	2004	42
41	Characterization of displacement demand for elastic and inelastic SDOF systems	Soil Dynamics and Earthquake Engineering	2003	0.435	2003	24
42	An energy-based methodology for the assessment of seismic demand	Soil Dynamics and Earthquake Engineering	2001	0.492	2001	114
43	Formulation of elastic earthquake input energy spectra	Earthquake Engineering and Structural Dynamics	1998	0.734	2002	102

Part VIII– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

1. Angelucci G., Spence S.M.J. Mollaioli F. (2020) “An integrated topology optimization framework for three-dimensional domains using shell elements”, *The Structural Design of Tall and Special Building*. 2020;e1817, (<https://doi.org/10.1002/tal.1817>).
2. Cheng Y., Lucchini A., Mollaioli F. (2020) “Ground-Motion Prediction Equations for Constant-Strength and Constant-Ductility Input Energy Spectra”, *Bulletin of Earthquake Engineering*, (2020) 18:37–55, (<https://doi.org/10.1007/s10518-019-00725-x>).
3. Mollaioli F., AlShawa O., Liberatore L., Liberatore D., Sorrentino L. (2019) “Seismic demand of the 2016-2017 Central Italy earthquakes”, *Bulletin of Earthquake Engineering*, (2019) 17:5399–5427. (<https://doi.org/10.1007/s10518-018-0449-y>).
4. Quaranta G., Mollaioli F., (2019) “Analysis of near-fault pulse-like seismic signals through Variational Mode Decomposition technique”, *Engineering Structures* 193 (2019) 121–135 (<https://doi.org/10.1016/j.engstruct.2019.05.003>).
5. Liberatore L., Noto F., Mollaioli F., Franchin P. (2018) “In-plane response of masonry infill walls: comprehensive experimentally-based equivalent strut model for deterministic and probabilistic analysis”, *Engineering Structures*, 167(2018) 533–548 (DOI: <https://doi.org/10.1016/j.engstruct.2018.04.057>).
6. Quaranta G., Mollaioli F. (2018) “On the use of the equivalent linearization for bilinear oscillators under pulse-like ground motion”, *Engineering Structures*, 160(2018), 395-407 (DOI: <https://doi.org/10.1016/j.engstruct.2018.01.055>).
7. Angelucci G, Mollaioli F. (2017), “Diagrid structural systems for tall buildings: Changing pattern configuration through topological assessments”, *The Structural Design of Tall and Special Building*, 26(18), 25 December 2017, 2017:e1396. (DOI: 10.1002/tal.1396).
8. Nurbaiah Mohammad Noh, Laura Liberatore, Fabrizio Mollaioli, Solomon Tesfamariam (2017) “Modelling of masonry infilled RC frames subjected to cyclic loads: State of the art review and modelling with OpenSees”, *Engineering Structures*, 150 (2017) 599–621 (<http://dx.doi.org/10.1016/j.engstruct.2017.07.002>).
9. Lucchini A., Franchin P., Mollaioli F. (2017), “Uniform hazard floor acceleration spectra for linear structures”, *Earthquake Engineering and Structural Dynamics*, Volume 46, Issue 7, June 2017, Pages: 1121–1140, (DOI: 10.1002/eqe.2847).
10. Donaire-Ávila J., Mollaioli F., Lucchini A., Benavent-Climent A. (2015) “Intensity measures for the seismic response prediction of mid-rise buildings with hysteretic dampers”, *Engineering Structures* 102 (2015) 278–295 (<http://dx.doi.org/10.1016/j.engstruct.2015.08.023>).
11. Ebrahimian H., Jalayer F., Lucchini A., Mollaioli F., Manfredi G., (2015) “Preliminary ranking of alternative scalar and vector intensity measures of ground shaking”, *Bulletin of Earthquake Engineering*, October 2015, 13, issue 10, 2805–2840 (DOI 10.1007/s10518-015-9755-9).
12. Mollaioli F., Liberatore L., Lucchini A., (2014) “Displacement Damping Modification Factors for pulse-like and ordinary records”, *Engineering Structures*, 78 17–27, (2014). (DOI: 10.1016/j.engstruct.2014.07.046)
13. Mollaioli F., Lucchini A., Cheng Y., Monti G., (2013) “Intensity measures for the seismic response prediction of base-isolated buildings”, *Bulletin of Earthquake Engineering*, 11:1841–1866 (DOI 10.1007/s10518-013-9431-x).
14. Lucchini A., Mollaioli F., Monti G., (2011) “Intensity measures for response prediction of a torsional building subjected to bi-directional earthquake ground motion”, *Bulletin of Earthquake Engineering*, 9(5), October 2011, 1499–1518 (DOI 10.1007/s10518-011-9258-2).
15. Decanini, L., Mollaioli F. (2001) “An energy-based methodology for the assessment of seismic demand”. *Soil Dynamics and Earthquake Engineering*, 21, 2, pp. 113-137 (DOI: 10.1016/S0267-7261(00)00102-0).

Impact factor values, IF, and citations for the selected publications
(all the IF values are determined for the same year of the publication)

Title	Source title	Year	IF	year (IF)	Citations
An integrated topology optimization framework for three-dimensional domains using shell elements	Structural Design of Tall and Special Buildings	2020	2.048	2020	
Ground-motion prediction equations for constant-strength and constant-ductility input energy spectra	Bulletin of Earthquake Engineering	2020	2.602	2020	4
Seismic demand of the 2016–2017 Central Italy earthquakes	Bulletin of Earthquake Engineering	2019	2.602	2019	12
Analysis of near-fault pulse-like seismic signals through Variational Mode Decomposition technique	Engineering Structures	2019	3.548	2019	5
In-plane response of masonry infill walls: Comprehensive experimentally-based equivalent strut model for deterministic and probabilistic analysis	Engineering Structures	2018	3.084	2018	14
On the use of the equivalent linearization for bilinear oscillators under pulse-like ground motion	Engineering Structures	2018	3.084	2018	5
Diagrid structural systems for tall buildings: Changing pattern configuration through topological assessments	Structural Design of Tall and Special Buildings	2017	1.500	2017	10
Modelling of masonry infilled RC frames subjected to cyclic loads: State of the art review and modelling with OpenSees	Engineering Structures	2017	2.755	2017	44
Uniform hazard floor acceleration spectra for linear structures	Earthquake Engineering and Structural Dynamics	2017	2.807	2017	14
Intensity measures for the seismic response prediction of mid-rise buildings with hysteretic dampers	Engineering Structures	2015	1.893	2015	22
Preliminary ranking of alternative scalar and vector intensity measures of ground shaking	Bulletin of Earthquake Engineering	2015	2.036	2015	64
Displacement damping modification factors for pulse-like and ordinary records	Engineering Structures	2014	1.838	2014	27
Intensity measures for the seismic response prediction of base-isolated buildings	Bulletin of Earthquake Engineering	2013	1.368	2013	75
Intensity measures for response prediction of a torsional building subjected to bi-directional earthquake ground motion	Bulletin of Earthquake Engineering	2011	1.559	2011	31
An energy-based methodology for the assessment of seismic demand	Soil Dynamics and Earthquake Engineering	2001	0.492	2001	114

Part IX– Other

Year	Title
2019	Mini-symposium organization: “MS 26 “ Recent Advances on Energy-Based Seismic”, co-organized with Prof. Amadeo Benavent-Climent at the COMPDYN 2019 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, Greece, 24–26 June 2019.
2009	Member of the research group sent by the Earthquake Engineering Research Institute to study the effect of the 2009 L'Aquila earthquake Partecipazione come membro del gruppo di ricercatori inviato dal Earthquake Engineering Research Institute in missione di studio degli effetti del terremoto dell' Aquila. aprile 2009
2002	Member of the research group sent by the Earthquake Engineering Research Institute to study the effect of the earthquake sequence in Molise region (31 october-12-15 november, 2002) Partecipazione come membro del gruppo di ricercatori inviato dal Earthquake Engineering Research Institute in missione di studio degli effetti del terremoto del Molise del 2002.
1997	Coordinator of the post-earthquake usability of public, historical and monumental buildings after the 1997 Umbria-Marche seismic sequence Attività di coordinamento dei rilievi di agibilità di edifici pubblici e monumenti a seguito del terremoto Umbro-Marchigiano del settembre -ottobre 1997 e giorni seguenti.
1995	Member of Official Italian Mission to Japan (March, 1995) after the Kobe Earthquake.
1991	Coordinator of the vulnerability survey on 37 school-buildings affected by the May 26th, 1991 earthquake in Potenza (Italy) Coordinatore, alle operazioni di indagine (giugno-luglio 1991) tramite schede di vulnerabilità di primo e secondo livello su 37 scuole nella città di Potenza, interessate dall'evento sismico del 26 maggio 1991, e costruite prima del 1980, nonché alla successiva fase di elaborazione dei risultati, portata a termine nel settembre 1991.
1991	Member of a research mission for the Vulnerability survey of reinforced concrete buildings after the December 13th 1990 Earthquake in South-East Sicily. Partecipazione alle Indagini di vulnerabilità di 2° livello e di agibilità su edifici in cemento armato, condotta dal GNDT in collaborazione con altre Istituzioni, per il rilievo e la stima dei danni riportati a seguito dell'evento sismico del 13 dicembre 1990 (Augusta, SR, maggio 1991).

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3. Decanini, L., Mollaioli F. (2001) “An energy-based methodology for the assessment of seismic demand”. *Soil Dynamics and Earthquake Engineering*, 21, 2, pp. 113-137.
4. Panza G.F., Romanelli F., Vaccari F., Decanini L., Mollaioli F. (2002). Innovative global assessment of the seismic hazard relevant for Vrancea seismicity. *Revue Roumaine de Géophysique*, vol. 46, p. 17-38, ISSN: 1220-5303
5. Decanini L., Liberatore L., Mollaioli F. (2003) “Characterization of displacement demand for elastic and inelastic SDOF systems”, *Soil Dynamics and Earthquake Engineering*, 23 (2003) 455–471.
6. Decanini L., Di Pasquale G., Galli P., Mollaioli F., Sanò T. (2004) “Seismic hazard and seismic zonation of the region affected by the 2002 Molise, Italy, Earthquake”, *Earthquake Spectra*, 20(S1), S131-S165 (DOI: 10.1193/1.1771012).
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9. Decanini L., Bruno S., Mollaioli F. (2004) “The role of damage functions in the evaluation of response modification factors”, *ASCE Journal of Structural Engineering*, 130(9), 1298-1308 (doi:10.1061/(ASCE)0733-9445(2004)130:9(1298).
10. Decanini L., De Sortis A., Liberatore L., Mollaioli F. (2005) “Estimation of near-source ground motions and seismic behaviour of RC framed structures damaged by the 1999 Athens earthquake”, *Journal of Earthquake Engineering*, Vol. 9, No. 5 (2005) 609–635.
11. Mollaioli F., Bruno S., Decanini L., Panza G.F. (2006) “Characterization of the dynamical response of structures to damaging pulse-type near-fault ground motions”, *Meccanica* (2006) 41:23–46 (DOI 10.1007/s11012-005-7965-y).
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13. Mollaioli F., Bruno S. (2008) “Influence of site effects on inelastic displacement ratios for SDOF and MDOF systems”, *Computers & Mathematics with Applications* 55(2), (2008) 184–207 (DOI:10.1016/j.camwa.2007.04.005).
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15. Çelebi M., P. Bazzurro, L. Chiaraluce, P. Clemente, L. Decanini, A. DeSortis, W. Ellsworth, A. Gorini, E. Kalkan, S. Marcucci, G. Milana, F. Mollaioli, M. Olivieri, D. Rinaldis, A. Rovelli, F. Sabetta and C. Stephens (2010) “Recorded Motions of the 6 April 2009 Mw 6.3 L’Aquila, Italy, Earthquake and Implications for Building Structural Damage: Overview”, *Earthquake Spectra*, Volume 26, No. 3, pages 651–684, August 2010 (DOI:10.1193/1.3450317).
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17. Lucchini A., Mollaioli F., Monti G., (2011) “Intensity measures for response prediction of a torsional building subjected to bi-directional earthquake ground motion”, *Bulletin of Earthquake Engineering*, 9(5), October 2011, 1499–1518 (DOI 10.1007/s10518-011-9258-2).
18. Mollaioli F., Bosi A., (2012) “Wavelet analysis for the characterization of forward-directivity pulse-like ground motions on energy basis”, *Meccanica*, (2012) 47:203–219.

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24. Cheng Y., Lucchini A., Mollaioli F. (2014) “Proposal of new ground-motion prediction equations for elastic input energy spectra”, *Earthquakes and Structures*, 7(4), 485-510, (2014). (DOI: <http://dx.doi.org/10.12989/eas.2014.7.4.485>).
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Tutoring

- Tutor PhD Thesis. Author: Giulia Angelucci. Title: Evaluation of optimal structural layouts for tall buildings using Topology Optimization”, Febbraio 2019. Dottorato di Ricerca in Ingegneria Strutturale e Geotecnica, Università di Roma “La Sapienza” XXXI Ciclo.
- Tutor PhD Thesis. Author: Yin Cheng. Title: Intensity Measures for Seismic Response Prediction and associated Ground Motion Selection and Modification. Co-tutored with Prof. Giorgio Monti, September 2013. Dottorato di Ricerca in Ingegneria delle Strutture, Università di Roma “La Sapienza” XXV Ciclo.
- Relatore della Tesi di Laurea “Analisi di un sistema costruttivo tetraedrico per edifici alti”, candidato Roberto Tardocchi, 2020. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Analisi del comportamento in campo non lineare di strutture DiaGrid al variare della configurazione geometrica”, Candidato Giulio Augusto Tropea, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di un edificio alto in legno in zona sismica”, Candidata Milena Molle, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Valutazione dell’efficacia di interventi di adeguamento sismico su una scuola in muratura nel Lazio”, Candidato Michele Terranegra, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Analisi comparative dell’efficacia di sistemi outrigger per il controllo della deformabilità di edifici alti”, Candidato Kevin Piccione, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di un grattacielo ad Osaka: integrazione tra architettura e ingegneria in un’area ad elevato rischio sismico”, Candidata Tiziana Cavasino, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di un edificio alto in zona sismica: the green ribbon”, Candidata Morena Quartucci, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Impiego di sistemi innovativi di protezione sismica per edifici alti esistenti”, candidata Anastasia Fabrizi, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Sistemi innovativi antisismici per edifici alti”, candidata Eleonora Cozzi, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di edifici alti con struttura diagrid irregolari in elevazione e in presenza di azioni estreme”, candidata Sara Bocchetta, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Valutazione della risposta aerodinamica di edifici alti a base poligonale”, candidata Giulia Gigli, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Comparazione aerodinamica di edifici alti morfologicamente diversificati in pianta e in elevazione”, candidata Giulia Necci, 2019. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Protezione sismica innovativa di chiese in muratura a navata unica”, candidato Daniele Voci, 2018. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Calcestruzzi ad altissime prestazioni (UHPC): caratteristiche ed applicazione”, candidata Simona De Bellis, 2018. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di dispositivi innovativi per l’adeguamento sismico di edifici alti. Il caso di Istanbul”, candidata Chiara Cosentino, 2018. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione Strutturale di edifici alti modellati con pattern biomimetici su base Voronoi”, candidato Silvestro Balbi, a.a. 2018. Tutor Degree Thesis

- Relatore della Tesi di Laurea “Progettazione di un edificio alto attraverso l’analisi di un pattern biomimetico”, candidato Pietro Marchionne, 2017. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Risposta aerodinamica di edifici alti con diverse configurazioni in elevazione”, candidata Francesca Proietti, 2017. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Variazione della risposta aerodinamica di edifici alti in relazione alla morfologia della costruzione”, candidato Mattia Tranfa, a.a. 2017. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione strutturale di edifici alti mediante ottimizzazione topologica”, candidata Lucia Casavola, a.a. 2017. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di strutture ottimizzate per edifici alti”, candidato Dario Puri, a.a. 2015-2016. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Base isolated critical healthcare building in Istanbul”, candidato Mehmet Sinan Bermek, a.a.2014-2015. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di un impianto sportivo con copertura gridshell in acciaio”, candidata Giulia Angelucci, a.a.2014-2015. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Strutture diagrid in zona sismica”, candidata Michela Argenti, a.a.2014-2015. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progetto di un edificio con piani sospesi in zona sismica”, candidata Alessandra Di Fiore, a.a.2014-2015. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di edifici alti con struttura diagrid in zona sismica”, candidata Fabiola Cosima Decataldo, a.a.2012-2013. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di una torre residenziale con struttura a sviluppo rotazionale in zona sismica”, candidato Emanuele Rossi, a.a. 2012-2013. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progettazione di un edificio espositivo con struttura reticolare a ponte in zona sismica”, candidato Mario Cutuli, correlatore Prof. Marcello Pazzaglini, a.a. 2009-2010. Tutor Degree Thesis
- Relatore della Tesi di Laurea “Progetto di una passerella pedonale nell’ambito di una proposta di riqualificazione ambientale del lungomare di Torvaianica”, candidato Eugenio Aglietti, correlatore Prof. Maurizio Petrangeli, a.a. 2009-2010. Tutor Degree Thesis

Correlatore delle seguenti tesi di laurea - Co-Tutor Degree Thesis:

Analisi della risposta dinamica di un edificio esistente isolato alla base sottoposto a sisma di tipo near-fault: Gim Suanno, relatore prof. Maurizio De Angelis, 2010. Facoltà di Ingegneria dell’Università degli studi di Roma “La Sapienza”.

Il controllo delle prestazioni sismiche nell’adeguamento dell’edilizia ospedaliera – Il caso dell’Ospedale di Villa D’Agri (PZ): Salvatore Sguazzo, relatore prof. Luigi Sguazzo, 2004. Facoltà di Ingegneria, Università degli studi di Salerno.

Studio comparativo delle principali normative antisismiche. Studente: M Simoncini, relatori: proff. ingg. C. Gavarini e L. Decanini, 1996. Facoltà di Ingegneria dell’Università degli studi di Roma “La Sapienza”.

Studio dell’influenza del modello isteretico sulle caratteristiche dell’input sismico energetico. Studente: A. Mura, relatori: proff. ingg. C. Gavarini e L. Decanini, 1996. Facoltà di Ingegneria dell’Università degli studi di Roma “La Sapienza”.

Analisi delle pulsazioni accelerometriche presenti nelle registrazioni near-fault. Studente: U. Aversano, relatori: proff. ingg. C. Gavarini e L. Decanini, 1996. Facoltà di Ingegneria dell’Università degli studi di Roma “La Sapienza”.

Adeguamento di edifici in cemento armato mediante pannelli di muratura inseriti nei riquadri di telaio. Studente: M Loreface, relatore: prof. ing. C. Gavarini, A.A. 1991-1992. Facoltà di Ingegneria dell’Università degli studi di Roma “La Sapienza”.

Studio della problematica di controllo di un edificio in cemento armato colpito da evento sismico. Studente: C Morbidelli, relatore: prof. ing. C. Gavarini, A.A. 1991-1992. Facoltà di Ingegneria dell’Università degli studi di Roma “La Sapienza”.

Altre attività didattiche - Other teaching activities

- Partecipazione alle Commissioni di esame e collaborazione allo svolgimento del corso di Statica e Stabilità delle Costruzioni Murarie e Monumentali, Anni Accademici 1999-2000, 2000-2001, 2001-2002, tenuti dal Prof. Luis Decanini.
- Partecipazione alle Commissioni di esame e collaborazione al corso di Statica del prof. Luis Decanini presso la Facoltà di Architettura dell'Università degli studi di Roma "La Sapienza" dal 1993 al 1999.
- Partecipazione alle Commissioni di esame e collaborazione al corso di Scienza delle Costruzioni del prof. Carlo Gavarini presso la Facoltà di Ingegneria dell'Università degli studi di Roma "La Sapienza" dal 1990 al 1996.

Partecipazione a congressi con lavori pubblicati sugli atti – Conference attending with publications

- 6° Convegno Nazionale: L'Ingegneria Sismica in Italia, Perugia, 13-15 ottobre 1993.
- 2nd French-Italian Symposium of Earthquake Engineering: Strengthening and Repair of Structures in Seismic Areas, Nice, France, 17-19 October 1994.
- Convegno: Terremoti in Italia; previsione e prevenzione dei danni, Accademia Nazionale dei Lincei, Roma, 1-2 dicembre 1994.
- 8° Convegno Nazionale: L'ingegneria sismica in Italia, Taormina, 21-24 settembre 1997
- 6th U.S. National Conference on Earthquake Engineering, Seattle, May 31-June 4, 1998.
- 11th European Conference on Earthquake Engineering, Paris, 6-11 September 1998.
- 2nd International Symposium on Earthquake Resistant Engineering Structures, ERES 99. Catania, Italy, June 15-17, 1999.
- 12th World Conference on Earthquake Engineering, Auckland, New Zealand, 30 January - 4 February 2000.
- 3rd International Conference on Earthquake Resistant Engineering Structures, ERES III, Malaga 4-6 September 2001, Spain.
- 5th European Conference on Structural Dynamics, EURO DYN 2002, Munich, September 2-5, 2002.
- 12th European Conference on Earthquake Engineering, Elsevier Science Ltd., paper 164, London, 9-13 September 2002
- OECD/NEA Workshop on the Relation between Seismological Data and Seismic Engineering Analyses, 16-18 October 2002, Istanbul Turkey
- 13th World Conference on Earthquake Engineering, August 1-6, 2004, Vancouver, Canada
- 9th International Conference on Structural Safety and Reliability, ICOSSAR2005, Rome, Italy, June 19-22, 2005.
- 8th U.S. National Conference on Earthquake Engineering, San Francisco, April 18-21, 2006.
- XII Convegno ANIDIS L'ingegneria Sismica in Italia, Pisa, 10 - 14 Giugno, 2007
- XIII Convegno ANIDIS L'ingegneria Sismica in Italia, Bologna, 30 giugno-2 luglio, 2009
- 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto July 25-29, 2010.
- fib Symposium Prague 2011 - Concrete engineering for excellence and efficiency, Praga, 8 - 10 June 2011
- XIV Convegno ANIDIS L'Ingegneria Sismica in Italia, Bari, 18-22 settembre 2011.
- 15 World Conference on Earthquake Engineering, Lisbona 23-28 settembre 2012.

- ICOSSAR 2013, 11th International Conference on Structural Safety & Reliability, June 16-20, 2013, Columbia University New York, NY.
- 6WCSCM, 6th World Conference on Structural Control and Monitoring, Barcelona (Spain), Universitat Politècnica de Catalunya, July 15-17, 2014.
- Second European Conference on Earthquake Engineering and Seismology, Istanbul, 24-29 August, 2014.
- ACE - 2nd International Symposium on Advances in Civil and Infrastructure Engineering, Vietri sul Mare, 12-13 June 2015.
- CC2015 & CSC2015, Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing, Prague, 1st to 4th September 2015.
- 16th World Conference on Earthquake Engineering, 16WCEE 2017, Santiago Chile, January 9th to 13th 2017
- COMPDYN 2017, 6th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, M. Papadrakakis, M. Fragiadakis (eds.), Rhodes Island, Greece, 15–17 June 2017
- X International Conference on Structural Dynamics, EURODYN 2017, Rome, Italy, September 10-13, 2017
- 16th European Conference on Earthquake Engineering, Thessaloniki, Greece, 18-21 June 2018
- 11th International Conference on Structural Analysis of Historical Constructions (SAHC 2018), Cusco, Perú, 11-13 September 2018
- Opensees Days Eurasia 2019, Hong Kong, 20–21 June 2019
- COMPDYN 2019 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, Greece, 24–26 June 2019.

Revisore - Reviewer

- National Fund for Scientific and Technological Development (FONDECYT) of the Chilean Government Commission for Scientific and Technological Development (CONICYT)
- Engineering Structures
- Computer-Aided Civil and Infrastructure Engineering
- Journal of Earthquake Engineering.
- Bulletin of Earthquake Engineering
- Earthquakes and Structures
- The Structural Design of Tall and Special Buildings
- Earthquake Engineering and Engineering Vibration
- Earthquakes and Structures
- Structural Engineering and Mechanics
- Soil Dynamics and Earthquake Engineering
- Earthquake Spectra
- Frontiers in Built Environment, section: Earthquake Engineering
- Natural Hazard
- Shock and Vibration

- Structural Control and Health Monitoring
- Advances in Civil Engineering
- Structures
- Pure and Applied Geophysics (PAGEOPH).
- Journal of Seismology and Earthquake Engineering.
- Earth Science Reviews.

Roma, 23/12/2020

Fabrizio Mollaioli

A handwritten signature in blue ink, appearing to read 'F. Mollaioli', written in a cursive style.