

Francesco Fabbrocino

CURRICULUM VITAE

Email : francesco.fabbrocino@unipegaso.it

Personal Web-page: www.unipegaso.it/website/corsi-di-laurea/ingegneria-civile

PhD and Lecturing in Mechanics of Solids, Solid and Structural Mechanics, Structural Engineering and BigData Analytics and Strategies for Civil Engineering

University of NAPLES Federico II and Pegaso University

Current Academic Position:

- Since 2019 **Associate Professor** of Solid and Structural Mechanics, Pegaso Telematic University, Italy
- Since 2020 National Academic Qualification as **Full Professor** by MIUR (Ministry of Education University and Research).
- Since 2021 **FULL Professor** of Structural Engineering, Pegaso Telematic University, Italy

Past Academic Position:

- 2014 – 2019** **Assistant Professor** of Solid and Structural Mechanics, Pegaso Telematic University, Italy

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

2000 - 2014 Adjunct Lecturer of Mechanics of Solids and Solid and Structural Mechanics, Department of Structural Engineering, University of Naples Federico II, Naples, Italy

EDUCATION:

2000 Doctor of Philosophy (Ph.D.), Department of Structural I Engineering, University of Naples Federico II, Italy

PROFESSIONAL COMMITTEES AND ACTIVITIES (SELECTED):

Since 2014 **Member** of the Italian Association of Theoretical and Applied Mechanics **AIMETA** (<http://www.aimeta.it/>).

2015 Organizing Committee on “The 14th International Conference on Intelligent Software Methodologies, Tools and Techniques”, Monumental Complex of St. Chiara, Naples, Italy

2015 Organizing and Scientific Committee on “International Workshop Big Data Analytics for Smart Strategy Specialisation in Civil Engineering”, Pegaso University, Rome, Italy

2015 Organizing and Scientific Committee on “The stairs in the building of the historical center of Old Naples - Reading typological, morphological and structural”, University of Naples Federico II and Pegaso University, Napoli, Italy

2015 Organizing and Scientific Committee on “Problems of Seismic Engineering in the City of Naples”, University of Naples Federico II, University Parthenope of Naples and Pegaso University, Napoli, Italy

Since 2015 **Main proponent and Scientific Coordinator** of one fundamental strategic thematic groups of the Pegaso University on “**3DCEL Spin Off UniPegaso: Virtual Modeling and Additive Manufacturing (3D printing) for Advanced Materials**”

Since 2015 **Coordinator** of the **Scientific Program in “Big Data Strategy in Civil Engineering and 3D Advanced Materials”**, program also involved in CESMA University of Naples Federico II and OSDxE, Spin Off of Oxford University, EN

Since 2015 **Scientific Coordinator** of the High Formation and Master Academy. Engineering Area of Pegaso University, Italy

2016 Scientific Committee on “The International Conference CONCRETE 2016”, University of Molise, Italy

Since 2016 **Director** of the “**Computational Mechanics and Advanced Materials**” joint Center, between University of Tor Vergata, Rome, Italy and Pegaso University, Italy

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- Since 2016* **Scientific Coordinator** of the “**School of Urban and Environmental Regeneration**”, founder prof. Bianchi Alessandro, Rector UniPegaso, High Formation Center of Pegaso University, Italy
- 2016** **Scientific Committee** on “Multiscale Innovative Materials and Structures – MIMS16”, Oct. 28-30, 2016, Cetara (Amalfi Coast), Italy
- Since 2016* **Visiting Professor with research fellowship** at EPU – European Polytechnical University in Bulgaria
- Since 2016* **Coordinator** of the Structural Testing Laboratory of the **Regional Centre of Expertise on Culture, Ecology and Economy “BENECON” – an institutional member of the UNESCO Forum University and Heritage**, founder prof. Carmine Gambardella (www.benecon.it), members: Second University of Naples. Pegaso University, University of Naples Federico II, University of Salerno and University of Sannio.
- Since 2016* **Committee Member of Industrial Liaison Office (ILO)** in Pegaso University, Rector's Decree n. 29/2016.
- Since 2016* **Member** of the European Mechanics Society EUROMECH (<http://www.euromech.org/>).
- Since 2017* **Member** of the International Masonry Society IMS (<http://masonry.org.uk/>).
- Since 2017* **Member** of Faculty of PhD Program in Pegaso International, Malta, Engineering and Materials.
- 2017** National Academic Qualification as **Associate Professor** by MIUR (Ministry of Education University and Research).
- 2018** **Organizing Committee** on “42nd IAHS World Congress on Housing – The housing for the dignity of mankind”, April 10-13, 2018, Naples, Italy (<http://www.iahs2018.org>).
- 2018** **Co- Organizing Committee** on MS - Recent Advances in Nanocomposites and Green Materials: Theory, Computational aspects and Experiments in “THE 9TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL METHODS (ICCM2018) - August 6 – 10, 2018 – ROME (Italy) (<http://www.sci-entech.com/ICCM2018>).
- 2019** **Organizing Committee** on “AIMETA 2019”, September 2019, Rome 15-19, Italy (<http://www.aimeta2019.it>).
- 2019** Co- Organizing Committee on MS13 - Hydrothermal Ageing of Natural Fibre Polymer Composites in AIMETA 2019 – September 15 – 19, 2019 – ROME (Italy) (<http://www.aimeta2019.it>).
- 2020** ICCS23 - 23rd International Conference on Composite Structures & MECHCOMP6 - 6th International Conference on Mechanics of Composites, FEUP-Faculty of Engineering, University of Porto, Portugal, 1-4 September 2020, (<https://events.unibo.it/iccs23/scientific-committee>)

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

2021 Socio Onorario della “Materials and Structures Testing and Research – Associazione” per l’impegno scientifico nel monitoraggio, recupero e conservazione del Patrimonio Edilizio e delle Infrastrutture Civili.

PS:

In Pegaso.....

Dal 2014 ad oggi - Componente Corso di Studi (CDS) di Ingegneria L7

Dal 2015 ad oggi - Componente GAV per Ingegneria L7

Dal 2016 ad oggi - Componente Commissione Paritetica Docenti Studenti (CPDS)

TEACHING

Since 2014 Mechanics of Solids → 10 ECTS.

Since 2014 Solid and Structural Mechanics → 15 ECTS.

Since 2018 Structural Mechanics → 10 ECTS

These teachings have been designed and implemented in telematic mode

Since 2019 DEMOLITION AND BUILDINGS RECYCLING – 9 ECTS – University of Cassino and Southern Lazio, Italy.

PHD TEACHING

Since 2017 “Materials for seismic applications”, PhD in Engineering of Design and Production, Industrial University of Rome Tor Vergata.

Since 2017 “Innovative materials for construction”, Pegaso International, Malta.

Since 2018 “Additive Manufacturing nell’Ingegneria Civile”, PhD in Engineering of Design and Production, Industrial University of Rome Tor Vergata.

Since 2018 “Nanocomposites in cementitious materials”, PhD in Engineering of Design and Production, Industrial University of Rome Tor Vergata.

PHD ACADEMIC BOARD

Since 2017 “Materials and Structures Analysis”, PhD in Engineering of Design and Production, Pegaso International University, L Valletta, Malta.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

Since **2020** “Materials and Structures Analysis”, PhD in Engineering of Design and Production, Padua University, L Valletta, Malta.

Since **2020** PhD Faculty Board in PhD Course in Sciences of Civil, Environmental and Architectural Engineering, University of Padua, Italy (<https://www.dicea.unipd.it/en/phd-course/faculty-board-cycle-xxxvi>).

ACTIVE RESEARCH GRANTS:

2015 - 2018 “**METRICS** - Methodologies and technologies for the management and rehabilitation of historic centers and its ancient buildings”, funded by the **European Community** and **MIUR (Italian Department of University Research)**, *Assistant of Project Leader*

2014 -2015 “**PON R&C – METROPOLIS** - Methodologies and Technologies for Sustainable and Integrated adaptation and of Urban Systems Security”, funded by the **MIUR (Italian Department of University Research)**, *Research Unit*

2015 - in corso Oxford-Sustainable Development Enterprise- **OxSDE**- KNOWLEDGE CENTER – Bigdata / Machine learning /Smart Strategy – Oxford University, Oxford (UK), Principal Investigator: Fabbrocino: Methodologies, Analysis Micro-Modelling and Macro-Modelling and Technologies on Advanced Materials for Sustainable and Integrated adaptation and of Urban Structural Systems Security, Oxford/London UK,

2015 - 2019 **EXTREME - EXTREME Dynamic Loading - Pushing the Boundaries of Aerospace Composite Material Structures**, [EU - Horizon 2020](#), Prof. Meo M., University of Bath, UK, *Research Member*,

2017 -2020 “CeSMA – Industria 4.0 - Innovative Enabling Technologies for Industry 4.0”, funded by the **MIUR (Italian Department of University Research)**, *Research Unit*

2017 - 2020 NHYTE - New Hybrid Thermoplastic Composite Aerostructures Manufacturede by Out of Autoclave Continous Automated Technologies, [EU Commission](#), Prof. Meo M., University of Bath, UK, *Research Member*,

2017 -2019 Project **DPC – RELUIS** Linea –Progetti Speciali RS1– RS1 – Sicurezza dei componenti non strutturali, UR PEGASO Responsabile scientifico UR Francesco Fabbrocino, WP4 Componenti non strutturali ad elevato valore aggiunto

2019 – 2021 Project **DPC – RELUIS** Linea –Progetti Speciali RS1– RS1 – Sicurezza dei componenti non strutturali, UR PEGASO Responsabile scientifico UR Francesco

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

Fabbrocino. WP4: Componenti non strutturali ad elevato valore aggiunto; WP 17: Contributi normative per elementi non strutturali.

2018 -2020 PON Research and Innovation 2014-2020, "Advanced systems for monitoring of civil infrastructures and urban construction" Scientific Leader: Prof. Edoardo Cosenza, Structure: CeSMA - Advanced Metrology and Technology Services Center, Research Unit

2018 -2022 Horizon 2020 - RESHEALIENCE - Rethinking coastal defence and Green-Energy Service infrastructures through enHancEddurAbiLIty high-performance fiber reinforced cement-based materials, H2020-NMBP-2016-2017, RIA - G.A. n. 760824, Structure: STRESS S.c.ar.l., Sviluppo Tecnologie e Ricerca per l'Edilizia Sismicamente Sicura ed ecoSostenibile, (www.stress-scarl.com/it/), Research Unit

2018 -2022 Horizon 2020 - HAPPEN - Holistic APproach and Platfom for the deep renovation of the Med residential built ENvironment, H2020-EE-11-2016-2017, Structure: STRESS S.c.ar.l., Sviluppo Tecnologie e Ricerca per l'Edilizia Sismicamente Sicura ed ecoSostenibile, (www.stress-scarl.com/it/), Research Unit

PAST RESEARCH GRANTS:

2005 - 2008 “*TELLUS STABILITA’* - *Testing of products and innovative techniques and development of new methods for the protection of the built environment from civil damages related to environmental and in particular seismic dynamic stress*”, funded by the MIUR (Italian Department of University Research), Research Unit

PAST INSTITUTIONAL TEACHING ACTIVITIES (SELECTED):

- **Mechanics of Solids and Structures**, Civil Engineering program, Pegaso University, Italy
- **Structural Engineering**, Civil Engineering program, Pegaso University, Italy
- **Innovative materials for construction**, Phd Program, Pegaso International, Malta.
- **Innovative materials for construction**, Phd Program, University of Rome Tor Vergata, Italy.
- **Computational methods for Innovative Materials**, Phd Program, University of Rome Tor Vergata, Italy.
- **Innovative materials for construction**, Phd Program, University of Padua, Italy.
- **Dynamic Mechanical Metamaterials for Structural Systems**, Phd Program, University of Padua, Italy.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

MEMBERSHIPS TO EDITORIAL BOARD OF JOURNALS:

- Since **2016** Editorial Adjunct Board member for the “*Ingegneria Sismica – International Journal of Earthquake Engineering*” (<http://ingegneriasismica.org/it/>)
- Since **2017** Editorial Board Member for “*The Open Materials Science Journal*” Bentham Open Ed. (<https://benthamopen.com/TOMSJ/editorial-board/>)
- Since **2017** Editorial Board Member for “*International Journal of Computer Sciences and its Applications*” DEStech Publications, Inc., USA, (<http://www.destechpub.com/product/ijcsa/>)
- Since **2018** Editorial Board Member for “*Academic Journal of Polymer science (AJOP)*” Juniper Publishers Inc., CA 93063, USA, (<https://juniperpublishers.com/ajop/editorialboard.php>)
- Since **2020** Editorial Board Member for “*Mathematical and Computational Applications*”, MDPI , <https://www.mdpi.com/journal/mca/editors>

AWARDS AND HONORIS:

- 2016** Selection and Award for the Innovations Section at the SMAU Naples 15-16 December 2016 of the "3D Civil Engineering Lab" Spin Off and the Scientific Leader: Francesco Fabbrocino
- 2017** STRESS Consortium - BIM & DIGITAL Award 2017 awarded during the Digital & Bim Italia event at the SAIE_2017 in Bologna in the "VI - Restoration and enhancement of heritage" category, with the project "Historic Building Information Modeling of the eighteenth-century wooden roofing system in the Salone della Meridiana and Characterization of Materials, at the Archaeological Museum of Naples, MANN ". Francesco Fabbrocino, Leader team Material Characterization Group. (<http://www.digitalbimitalia.it/home/7149.html>).
- 2017** Selection and Award for the Innovations Section at the SMAU Naples 14-15 December 2017 of the "3D Civil Engineering Lab" Spin Off and the Scientific Leader: Francesco Fabbrocino
- 2018** Scientific Director of the Engineering Group for Mayor of the Metropolitan City of Bari and President of ANCI, Eng. On. Antonio Decaro.
- 2018** Scientific Director of the Engineering Editorial Series of the Giapeto Publisher Company, Italy.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

PROFESSIONAL COMMITTEES AND ACTIVITIES (SELECTED):

- Since **2016** Proponent and coordinator of an strategic thematic groups of the Pegaso University on “3D CEL: Virtual Modeling and Additive Manufacturing (3D printing) for Advanced Materials”
- Since **2017** Director of the “Computational Mechanics and Advanced Materials” joint Center, between Pegaso University and Institute of Polymers, Composites and Biomaterials (IPCB) of the National Research Council - Italy
- Since **2018** Chief - Member of Technical Scientific Committee of *ASSORIMAP* - National Association of Recyclers and Plastics Regenerators – Italy
- Since **2018** Scientific Director of the Engineering Group for Mayor of the Metropolitan City of Bari and President of ANCI, Eng. On. Antonio Decaro.
- Since **2018** Chief - Member of Technical Scientific Committee of *ANIEM* - National Association of small and medium-sized construction and manufacturing industries – Italy

RESEARCH TOPICS (SELECTED):

- **Material constitutive modeling:** static and dynamic response for low and high number of cycles (metals, polymers, rubbers), advanced materials (shape memory alloys and self-diagnosing materials)
- **Mixed finite elements:** development and analysis of finite element methods for Reissner-Mindlin plates, laminates, shells, locking problems in small and large deformation regimes
- **Isogeometric analysis:** structural mechanics problems in small and large deformations
- **Fast/impact dynamics:** development of meshless numerical techniques, smoothed particle hydrodynamics (SPH) methods
- **Advanced materials for the reduction of seismic risk:** development of innovative devices
- **Masonry, historical constructions,** structural analysis, limit analysis, FEM, homogenisation theory, FRP reinforcement, genetic algorithms (GA), rubber vulcanization, elastomeric seismic isolators
- **Theoretical and applied computational mechanics,** structures, experimental testing, constitutive laws, associated and non associated plasticity

EXPERIENCE AS REVIEWER:

Reviewer for the following peer-reviewed International Journals:

- International Journal of Solids and Structures, Elsevier Journal

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- Computer Methods in Applied Mechanics and Engineering
- Composite Structures
- Construction and Building Materials
- Composites Part B: Engineering
- Computers and Structures
- Polymer
- The Open Civil Engineering Journal
- International Journal of Sustainable Materials and Structural Systems
- Cogent Engineering
- Meccanica
- Mechanics of Advanced Materials and Structures
- Fatigue & Fracture of Engineering Materials & Structures
- Extreme Mechanics Letters
- Materials
- Fibers
- Nanomaterials

SUPERVISION OF YOUNG:

Currently supervisor of 6 **Post-doc**, **8 PhDs**, and 56 Bachelor students and 12 Graduate Student.

Ability of attracting foreign PhD students, PostDocs, visiting professors and hosting professors

TELEMATIC COURSE

Developed by Francesco Fabbrocino

- **Mechanics of Solids and Structures**, Civil Engineering Degree, Pegaso University, Italy
- **Structural Engineering**, Civil Engineering Degree, Pegaso University, Italy
- **Innovative materials for construction**, Phd Program, Pegaso International, Malta.
- **BIM Manager**, Master Program, Scientific Coordinator, Pegaso University, Italy.
- **Project Management nel settore delle Costruzioni**, Master Program, Scientific Coordinator, Pegaso University, Italy.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- **Risk and Disaster Management**, Master Program, Scientific Coordinator, Pegaso University, Italy.

SPIN OFF

The **3D Civil Engineering Lab s.r.l.** better known with the acronym 3DCEL (Spin off of the Telematic University Pegaso) born with the intent to provide new products and services to public and private bodies responsible for the governance of the city and the territory, or assistance and advice in the fields of structural intervention and new technologies and production of elements in 3D printing. The interdisciplinary approach, which involves the sharing of knowledge and different skills related to the faculty of Civil Engineering of the Pegasus University, characterizes the work of this company. Napoli (NA - 80132) – Piazza Trieste e Trento, 48.

Founder: Fabbrocino Francesco

Partnership with international institutions and companies

The economic value of the order is approximately €2,73 million.

MINISIMPOSI

“Preparation and Mechanical Characterization of Polymer Matrix Composites and/or Cement with a reduced environmental impact (Green Composites)” – AIMETA 2017 Salerno

Chairman

Fabbrocino F

Russo P

Colangelo F

“Open challenges in seismic design of new structures and vulnerability reduction of existing buildings”

International Conference of Numerical Analysis and Applied Mathematics 2017 (ICNAAM 2017), in Thessaloniki, Greece, The Met Hotel, 25-30/09/2017

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

Chairman:

Gabriele MILANI, Technical University of Milan, Piazza Leonardo da Vinci 32, Milan

Antonio FORMISANO, University of Naples Federico II, Piazzale Tecchio 80, Naples

Francesco FABBROCINO, Università telematica Pegaso, Piazza Trieste e Trento, Naples

“Recent Advances in Nanocomposites and Green Materials: Theory, Computational aspects and Experiments” - THE 9TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL METHODS (ICCM2018) - August 6 – 10, 2018 – ROME (Italy)

Chairman

Raffaele Barretta – University of Naples Federico II, Italy

Francesco Fabbrocino – Pegaso Telematic University, Italy

Francesco Marotti de Sciarra – University of Naples Federico II, Italy

Pietro Russo – Institute for Polymers, Composites and Biomaterials (IPCB) – CNR.

Open challenges towards a seismic protection of new and existing buildings

ICNAAM 2018 - 16TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, Rhodes, Greece, 13-18 Sept. 2018

Chairman

Francesco Clementi, Gabriele Milani, Francesco Fabbrocino, Antonio Formisano

“Hydrothermal ageing of Natural Fibre Polymer Composites” - AIMETA che il prossimo anno si terrà a Roma dal 15 al 19 Settembre 2019.

Chairman: Russo Pietro, Nanni Francesca, Francesco Fabbrocino

Hydrothermal Ageing of Natural Fibre Polymer Composites

AIMETA 2019 – Roma Italy, 13-19 Sept. 2019

Chairman

P. Russo, F. Nanni, F. Fabbrocino



Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300



GRANTED PATENTS:

Title: **Structural element Multiscale Geometry**

Appl. N.: 102015000044896, Year: 2015

Patent Office: **European Patent Office**

Inventor: F. Fraternali, **F. Fabbrocino**, I. Farina

Applicant: F. Fraternali, **F. Fabbrocino**, I. Farina

Title: **Structural element for Civil Construction and Industrial and its realization methods**

Appl. N.: 102016000080120, Year: 2016

Patent Office: **European Patent Office**

Inventor: M. Rinaldi, G. Manfredi, F. Fabbrocino, A. Prota, F. Nanni, G. Izzo, G.P. Lignola

Applicant: : M. Rinaldi, G. Manfredi, F. Fabbrocino, A. Prota, F. Nanni, G. Izzo, G.P. Lignola

Title: **Structural Element Polymeric for Civil Construction and its realization methods**

Appl. N.: 112373.31.08.2016, Year: 2016

Patent Office: **European Patent Office Bulgarian**

Inventor: M. Rinaldi, F. Fabbrocino, A. Prota, F. Nanni, G. Izzo, G.P. Lignola

Applicant: : M. Rinaldi, F. Fabbrocino, A. Prota, F. Nanni, G. Izzo, G.P. Lignola

EPU – European Polytechnical University from Bulgarian

Title: **3D PROTECTIVE MASK FOR SANITARY USE**

Appl. N.: 102020000007258, Year: 2020

Patent Office: **European Patent Office Bulgarian**

Inventor: F. Fabbrocino, Russo P., Izzo G.

Applicant: : University Telematic Pegaso, Italy

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

PUBLICATIONS & BOOKS

Scopus Author ID: 56816961000

Orcid ID: 0000-0001-8712-1048

BOOKS

Books (ante 2010)

- B 1. FABBROCINO F., Pasquino M (2006), “Techniques Active Control for Structural Systems”, CUEN Publishing, Napoli, Italy**
- B 2. FABBROCINO F. (2005), “Analysis and Verification of Arches in Masonry”, CUEN Publishing, Napoli, Italy**

Books (post 2010)

- B 3. FABBROCINO F. (2018), “Elementi di Scienza delle Costruzioni: Cinematica e Statica dei Sistemi di Corpi Rigidi”, Giapeto Ed. Publishing, Italy. (ISBN: 978-88-9326-199-9)**
- B 4. FABBROCINO F. (2018), “Elementi di Scienza delle Costruzioni: La Meccanica delle Travi Inflesse”, Giapeto Ed. Publishing, Italy. (ISBN: 978-88-9326-200-2)**
- B 5. FABBROCINO F. (2018), “Elementi di Scienza delle Costruzioni: Le Sollecitazioni Semplici”, Giapeto Ed. Publishing, Italy. (ISBN: 978-88-9326-201-9)**
- B 6. FABBROCINO F. (2018), “Elementi di Scienza delle Costruzioni: Sistemi Strutturali con Travature Deformabili”, Giapeto Ed. Publishing, Italy. (ISBN: 978-88-9326-202-6)**
- B 7. FABBROCINO F. (2018), “Le Scale nell’Edilizia Storica del Centro Antico di Napoli: Lettura tipologica, morfologica e strutturale”, Giapeto Ed. Publishing, Italy. (ISBN: 978-88-9326-203-3)**
- B 8. FABBROCINO F. (2018), “Technical and Scientific Manual for the Design of masonry Structures according Eurocode 6”, Giapeto Ed. Publishing, Italy. (ISBN: 978-88-9326-204-0)**
- B 9. FABBROCINO F. (2018), “Computational problem for thin Flexible Object and materials”, Giapeto Ed. Publishing, Italy. (ISBN: 978-88-9326-205-7)**

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

PUBLICATIONS

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

PUBLICATIONS on International Journals

Scopus Author ID: 56816961000

Orcid ID: 0000-0001-8712-1048

- J1. Fraternali, F., Carpentieri, G., Modano, M., **Fabbrocino, F.**, Skelton, R.E. A tensegrity approach to the optimal reinforcement of masonry domes and vaults through fiber-reinforced composite materials. COMPOSITE STRUCTURES (IF: 4.829), 134, 247-254, 2015. ISSN: 0263-8223, [DOI: 10.1016/j.compstruct.2015.08.087](https://doi.org/10.1016/j.compstruct.2015.08.087).
- J2. **Fabbrocino, F.**, Farina, I., Berardi, V.P., Ferreira, A.J.M., Fraternali, F. On the thrust surface of unreinforced and FRP-/FRCM-reinforced masonry domes. COMPOSITES. PART B, ENGINEERING (IF: 6.864), 83, 297-305, 2015. ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2015.08.061](https://doi.org/10.1016/j.compositesb.2015.08.061)
- J3. Farina, I., **Fabbrocino, F.**, Carpentieri, G., Modano, M., Amendola, A., Goodall, R., Feo, L., Fraternali, F., On the reinforcement of cement mortars through 3D printed polymeric and metallic fibers. COMPOSITES. PART B, ENGINEERING (IF: 6.864), 90, 76-85, 2016. ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2015.12.006](https://doi.org/10.1016/j.compositesb.2015.12.006)
- J4. Bossio, A., **Fabbrocino, F.**, Lignola, G.P., Prota, A., Manfredi, G., Simplified model for strengthening design of beam-column internal joints in Reinforced Concrete Frames, POLYMERS (IF: 3.164), 7 (9), 1732-1754, 2015. E-ISSN: 2073-4360, [DOI: 10.3390/polym7091479](https://doi.org/10.3390/polym7091479)
- J5. Farina, I., **Fabbrocino, F.**, Colangelo, F., Feo L., Fraternali, F., Surface roughness effects on the reinforcement of cement mortars through 3D printed metallic fibers. COMPOSITES. PART B, ENGINEERING (IF: 6.864), Vol. 99, Pages 3305-311, ISSN: 1359-8368, 2016, [DOI:10.1016/j.compositesb.2016.05.055](https://doi.org/10.1016/j.compositesb.2016.05.055).
- J6. **Fabbrocino, F.**, Amendola, A., Benzoni, G., Fraternali, F. Seismic applications of pentamode lattices. INGEGNERIA SISMICA/INTERNATIONAL JOURNAL OF EARTHQUAKE ENGINEERING (IF: 3.27), ISSN: 0393-1420, Vol 1 e 2, 2016.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- J7. **Fabbrocino, F.**, Energy dissipation capacity of concretes reinforced with 3D-printed fibers. INGEGNERIA SISMICA/INTERNATIONAL JOURNAL OF EARTHQUAKE ENGINEERING (IF: 3.27), ISSN: 0393-1420, In press, 2016.
- J8. Bossio, A., Lignola, G. P., **Fabbrocino, F.**, Monetta, T., Prota, A., Bellucci, F., Manfredi, G., Nondestructive assessment of corrosion of reinforcement bars through surface concrete cracks, STRUCTURAL CONCRETE (IF: 1.885), Vol. 18, pag. 104-117, ISSN: 1751-7648, [DOI: 10.1002/suco.201600034](https://doi.org/10.1002/suco.201600034), Sept 2016.
- J9. **Fabbrocino F.**, Estimation of the natural periods of existing masonry towers through empirical procedure, International Journal of Sustainable Materials and Structural Systems, ISSN: 2043-8621, 2016, Vol. 2(3-4), pag. 250-261, Aug 2016, [DOI: 10.1504/IJSMSS.2016.078711](https://doi.org/10.1504/IJSMSS.2016.078711).
- J10. Formisano, A. , **Fabbrocino, F.**, Iazzetta, G., Marino, G., Gli Effetti delle Alte temperature sulla Risposta degli Edifici in Muratura, INGENIO, ISSN 2307-8928, Aprile 2016.
- J11. Carpentieri, G., Modano, M., **Fabbrocino, F.**, Feo, L., Fraternali, F., On the minimal mass reinforced of masonry structures with arbitrary shape, MECCANICA (IF: 2.316), (2017) Vol. 52, Issue 7, Pag. 1561-1576, ISSN: 0025-6455, [DOI: 10.1007/s11012-016-0493-0](https://doi.org/10.1007/s11012-016-0493-0).
- J12. Singh R., Singh S., Singh I. P., **Fabbrocino F.**, Fraternali F., Investigation for surface finish improvement of FDM parts by vapor smoothing process COMPOSITES. PART B, ENGINEERING (IF: 6.864), Nov 2016, Vol. 111, Pag. 228-234, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.11.062](https://doi.org/10.1016/j.compositesb.2016.11.062).
- J13. Giamundo V., Lignola G.P., **Fabbrocino F.**, Prota A., Manfredi G., Influence of FRP wrapping on reinforcement performances at lap splice regions in RC columns COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2017, Vol. 116, Pag. 313-324, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.10.069](https://doi.org/10.1016/j.compositesb.2016.10.069).
- J14. Singh R, Singh R., Dureja J.S., Farina I., **Fabbrocino F.**, Investigations for dimensional accuracy of Al alloy/Al-MMC developed by combining stir casting and ABS replica based investment casting and ABS replica based investment casting, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2017, Vol. 115, Pag. 203-208, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.10.008](https://doi.org/10.1016/j.compositesb.2016.10.008).
- J15. **Fabbrocino F.**, Farina I., Modano M., Loading noise effects on the system identification of composite structures by dynamic tests with vibrodyne, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2017, Vol. 115, Pag. 376-383, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.09.032](https://doi.org/10.1016/j.compositesb.2016.09.032).
- J16. **Fabbrocino F.**, Modano M., Farina I., Carpentieri G., Fraternali F., Optimal Prestress Design of Composite Cable-Stayed Bridges, COMPOSITE STRUCTURES (IF: 4.829), 2017, Vol 169, Pag. 167-172, ISSN: 0263-8223, [DOI: 10.1016/j.compstruct.2016.09.008](https://doi.org/10.1016/j.compstruct.2016.09.008).
- J17. Boparai K.S., Singh R., **Fabbrocino F.**, Fraternali F., Thermal characterization of recycled polymer for additive manufacturing applications, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2016, Vol. 106, Pag. 42-47, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.09.009](https://doi.org/10.1016/j.compositesb.2016.09.009).
- J18. Singh R., Singh N., **Fabbrocino F.**, Fraternali F., Ahuja I.P.S., Waste management by recycling of polymers with reinforcement of metal powder, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2016, Vol. 105, Pag. 23-29, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.08.029](https://doi.org/10.1016/j.compositesb.2016.08.029).

Mail: franc

Tel.: +39 08119138300

- J19. Mancusi G., **Fabbrocino F.**, Feo L., Fraternali F., Size effect and dynamic properties of 2D lattice materials, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2017, Vol. 112, pag. 235-242, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.12.026](https://doi.org/10.1016/j.compositesb.2016.12.026).
- J20. Bozza A., Asprone D. , **Fabbrocino F.**, Urban Resilience: A Civil Engineering Perspective, Sustainability (IF: 2.592), 2017, Vol. 9(1), 103, ISSN 2071-1050, [DOI: 10.3390/su9010103](https://doi.org/10.3390/su9010103).
- J21. **F. Fabbrocino**, A. Amendola, Discrete-to-continuum approaches to the mechanics of pentamode bearings, COMPOSITE STRUCTURES (IF: 4.829), 2017, Vol. 167, 219-228, ISSN: 0263-8223, [DOI: 10.1016/j.compstruct.2017.01.073](https://doi.org/10.1016/j.compstruct.2017.01.073).
- J22. Bossio A., Lignola G.P., **Fabbrocino F.**, Monetta T., Prota A., Bellucci F., Manfredi G., Nondestructive assessment of corrosion of reinforcing bars through surface concrete cracks, February 2017, Structural Concrete (IF: 1.885), 18(1):104-117, ISSN:1751-7648, [DOI: 10.1002/suco.201600034](https://doi.org/10.1002/suco.201600034).
- J23. Fortunato A., **Fabbrocino F.**, Angelillo M., Fraternali F., Limit analysis of masonry structures with free discontinuities, MECCANICA (IF: 2.316), 2018, Volume 53, Issue 7, pp 1793–1802, ISSN: 0025-6455, [DOI: 10.1007/s11012-017-0663-8](https://doi.org/10.1007/s11012-017-0663-8).
- J24. Caggegi C., Carozzi G., De Santis S., **Fabbrocino F.**, Focacci F., Hojdys L., Lanoye E., Zuccarino L., Experimental analysis on tensile and bond properties of PBO and aramid fabric reinforced cementitious matrix for strengthening masonry structures, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2017, Vol. 127, 175-195, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2017.05.048](https://doi.org/10.1016/j.compositesb.2017.05.048).
- J25. Giamundo V., Lignola G.P., **Fabbrocino F.**, Prota A. Manfredi G., Influence of FRP wrapping on reinforcement performances at lap splice regions in RC columns, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2017, Vol. 116, 313-324, ISSN: 1359-8368, [DOI: 10.1016/j.compositesb.2016.10.069](https://doi.org/10.1016/j.compositesb.2016.10.069).
- J26. Titirla M.D., Katakalos K., Zuccaro G., **Fabbrocino F.**, On the mechanical modeling of an innovative energy dissipation device, June 2017, INGEGNERIA SISMICA/INTERNATIONAL JOURNAL OF EARTHQUAKE ENGINEERING (IF: 3.27), 34(2), ISSN, 0393-1420.
- J27. Babilio E., **Fabbrocino F.**, Durand M., Fraternali F., On the mechanics of tetrakis-like lattices in the stretch-dominated regime, Extreme Mechanics Letters (IF: 4.075), (2017), Vol. 15, 57-62, ISSN: 2352-4316, [DOI: 10.1016/j.eml.2017.06.003](https://doi.org/10.1016/j.eml.2017.06.003).
- J28. Ramaglia G., Lignola G.P., **Fabbrocino F.**, Prota A., Numerical Modelling of Masonry Barrel Vaults Reinforced with Textile Reinforced Mortars, June 2017, Key Engineering Materials (IF: 0,35), VOL. 747, Pages: 1-19, ISSN: 1662-9795, DOI: 10.4028/www.scientific.net/KEM.747.11.
- J29. D’Ambra C., Lignola G.P., **Fabbrocino F.**, Prota A., Sacco E., Repair of Clay Brick Walls for out of Plane Loads by Means of FRCM, June 2017, Key Engineering Materials (IF: 0,35), Vol. 747, pp. 358-365, ISSN: 1662-9795, DOI: 10.4028/www.scientific.net/KEM.747.358.
- J30. Bertolesi E., **Fabbrocino F.**, Formisano A., Grande E., Milani G., FRP-Strengthening of Curved Masonry Structures: Local Bond Behavior and Global Response, Key Engineering Materials (IF: 0,35), (2017), Vol. 747:134-141, ISSN: 1662-9795, [DOI: 10.4028/www.scientific.net/KEM.747.134](https://doi.org/10.4028/www.scientific.net/KEM.747.134).

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- J31. **Fabbrocino F.**, Carpentieri G., Three-dimensional modeling of the wave dynamics of tensegrity lattices, COMPOSITE STRUCTURES (IF: 4.829), (2017), Vol. 173, pag. 9-16, ISSN: 0263-8223, [DOI: 10.1016/j.compstruct.2017.03.102](https://doi.org/10.1016/j.compstruct.2017.03.102).
- J32. Barretta R., **Fabbrocino F.**, Luciano R., Marotti de Sciarra F., Closed-form solutions in stress-driven two-phase integral elasticity for bending of functionally graded nano-beams, Physica E: Low-dimensional Systems and Nanostructures (IF: 3.176), (2018), Vol. 97, 13-30, ISSN: 1386-9477, [DOI:10.1016/j.physe.2017.09.026](https://doi.org/10.1016/j.physe.2017.09.026).
- J33. Sarhosis V., Milani G., Formisano A., **Fabbrocino F.**, Evaluation of different approaches for the estimation of the seismic vulnerability of masonry towers, Bulletin of Earthquake Engineering (IF: 2.406), (2018), Vol. 13(3), 1511-1545, ISSN: 1573-1456, [DOI: 10.1007/s10518-017-0258-8](https://doi.org/10.1007/s10518-017-0258-8).
- J34. Gallucci L., Menna C., Angrisani L., Asprone D., Schiano Lo Moriello R., Bonavolontà F., **Fabbrocino F.**, An Embedded Wireless Sensor Network with Wireless Power Transmission Capability for the Structural Health Monitoring of Reinforced Concrete Structures, Sensors (IF: 3.031), (2017), 17(11):2566, ISSN 1424-8220, [DOI: 10.3390/s17112566](https://doi.org/10.3390/s17112566).
- J35. Bossio A., **Fabbrocino F.**, Lignola G. P., Prota A., Manfredi G., Design Oriented Model for the Assessment of T-Shaped Beam-Column Joints in Reinforced Concrete Frames, Buildings (IF: 2.26), 2017, 7(4):118, ISSN 2075-5309, [DOI: 10.3390/buildings7040118](https://doi.org/10.3390/buildings7040118).
- J36. Cecchini F., Cherubini V., Mahrukh Sadaf, **Fabbrocino F.**, Nanni F., Design of a puncture-resistant composite shell comprising a non-Newtonian core, Polymer Testing (IF: 2.943), (2018), Vol. 67, 494-502, ISSN: 0142-9418, [DOI:10.1016/j.polymertesting.2018.03.019](https://doi.org/10.1016/j.polymertesting.2018.03.019).
- J37. Ramaglia G., Lignola G. P., **Fabbrocino F.**, Prota A., Numerical Investigation of Masonry Strengthened with Composites, Polymers (IF: 3.164), (2018), 10(3):334, ISSN 2073-4360, [DOI 10.3390/polym10030334.019](https://doi.org/10.3390/polym10030334.019).
- J38. Apuzzo A., **Fabbrocino F.**, Russo E., Russo P., Potential of Nanomaterials to Improve the Performances of Epoxy Resins for Civil Applications, April 2018, *In book: Experimental Characterization, Predictive Mechanical and Thermal Modeling of Nanostructures and their Polymer Composites*, ISBN: 9780323480611 ISBN: 9780323480611, [DOI: 10.1016/B978-0-323-48061-1.00008-7](https://doi.org/10.1016/B978-0-323-48061-1.00008-7).
- J39. Apuzzo A., **Fabbrocino F.**, Russo E., Russo P., On Small Scale Effects for Nanobeams, April 2018, *In book: Experimental Characterization, Predictive Mechanical and Thermal Modeling of Nanostructures and their Polymer Composites*, ISBN: 9780323480611, [DOI: 10.1016/B978-0-323-48061-1.00007-5](https://doi.org/10.1016/B978-0-323-48061-1.00007-5).
- J40. Barretta R., **Fabbrocino F.**, Marotti de Sciarra F., Luciano R., Morabito F.G., Ruta G., Modulated Linear Dynamics of Functionally Graded Nanobeams With Nonlocal and Gradient Elasticity, April 2018, *In book: Experimental Characterization, Predictive Mechanical and Thermal Modeling of Nanostructures and their Polymer Composites*, ISBN: 9780323480611, [DOI: 10.1016/B978-0-323-48061-1.00009-9](https://doi.org/10.1016/B978-0-323-48061-1.00009-9).
- J41. Cecchini F., Cherubini V., **Fabbrocino F.**, Nanni F., Novel Approach to The Design of Sound Insulating Composites by Means of a Non-Linearly Extrapolated Master Curve, The Open Materials Science Journal (IF: 1,475), (2018, June), 12(1):14-28, ISSN: 1874-088X, [DOI: 10.2174/1874088X01812010014](https://doi.org/10.2174/1874088X01812010014).
- J42. Formisano A., Vaiano G., **Fabbrocino F.**, Milani G., Seismic vulnerability of Italian masonry churches: The case of the Nativity of Blessed Virgin Mary in Stellata of Bondeno, Journal of

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- Building Engineering (IF: 2.378), (2018, July), ISSN: 2352-7102, DOI: 10.1016/j.jobbe.2018.07.017.
- J43. D’Ambra C., Lignola G. P., Prota A., Sacco E., **Fabbrocino F.**, Experimental performance of FRCM retrofit on out-of-plane behaviour of clay brick walls, COMPOSITES. PART B, ENGINEERING (IF: 6.864), 2018. September, Vol. 148, 198-206, ISSN: 1359-8368, DOI:10.1016/j.compositesb.2018.04.062.
- J44. Cecchini F., Cherubini V., **Fabbrocino F.**, Nanni F., DOE analysis of the rheological data of shear-thickening fluids for puncture-resistant composite shells, Data in Brief. 2018 October; 21: 176–184, ISSN: 2352-3409, doi: [10.1016/j.dib.2018.09.107](https://doi.org/10.1016/j.dib.2018.09.107).
- J45. Barretta R., **Fabbrocino F.**, Marotti de Sciarra F., Luciano R., Ruta G., Buckling loads of nano-beams in stress-driven nonlocal elasticity, Mechanics of Advanced Materials and Structures (IF: 2.873), January 2019, ISSN: 15376532, 15376494, DOI: 10.1080/15376494.2018.1501523.
- J46. **Fabbrocino F.**, Funari M F, Greco F, Lonetti P, Luciano R, A numerical model based on ALE formulation to predict fast crack growth in composite structures, Procedia Structural Integrity, Elsevier, 18 (2019) 422–431, SSN: 2452-3216, DOI: 10.1016/j.prostr.2019.08.184.
- J47. Bossio A., **Fabbrocino F.**, Monetta T., Lignola G. P., Prota A., Manfredi G., Bellucci F., Corrosion effects on seismic capacity of reinforced concrete structures, Corrosion Review (IF: 2.528), February 2019, Vol. 37, Issue: 1, Pages 45–56, ISSN (Online) 2191-0316, ISSN (Print) 0334-6005, DOI: 10.1515/correv-2018-0044.
- J48. Formisano A., Vaiano G., **Fabbrocino F.**, Seismic and Energetic Interventions on a Typical South Italy Residential Building: Cost Analysis and Tax Dedraction, Frontiers in Built Environment (IF: 1,374), 5:12, February 2019, ISSN: 2297-3362, DOI: 10.3389/fbuil.2019.00012.
- J49. Ramaglia G., **Fabbrocino F.**, Lignola G. P., Prota A., Unified Theory for Flexural Strengthening of Masonry with Composites, February 2019, Materials (IF: 2.972), 12(4):680, ISSN 1996-1944, DOI: 10.3390/ma12040680.
- J50. De Maio U. **Fabbrocino F.**, Greco F., Leonetti L., Lonetti P., A study of concrete cover separation failure in FRP-plated RC beams via an inter-element fracture approach, Composite Structures, Vol. 212, Pages 625-636, COMPOSITE STRUCTURES (IF: 4.829), March 2019, ISSN: 0263-8223, DOI: 10.1016/j.compstruct.2019.01.025.
- J51. **Fabbrocino F.**, Ramaglia G., Lignola G. P., Prota A., Ductility-based incremental analysis of curved masonry structures, March 2019, Engineering Failure Analysis (IF: 2,713), 97:653-675, DOI: 10.1016/j.engfailanal.2019.01.027.
- J52. Cecchini F., **Fabbrocino F.**, Bassan M., Russo P., Nanni F., A Novel Empirical Approach to Estimate the Acoustic Properties of Smart Materials: Part I, Academic Journal of Polymer Science, Vol. 1, Issue 2, April 2019, ISSN: 2641-8282, DOI: 10.19080/AJOP.2018.01.555557.
- J53. **Fabbrocino F.**, Funari M. F., Greco F., Lonetti P., Luciano R., Penna R., Dynamic crack growth based on moving mesh method, June 2019, COMPOSITES. PART B, ENGINEERING (IF: 6.864), June 2019, Vol. 174. Pag.1-10. ISSN:1359-8368, DOI: 10.1016/j.compositesb.2019.107053.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- J54. Ramaglia G., Lignola G. P., **Fabbrocino F.**, Prota A., Multi-parameters mechanical modeling to derive a confinement model for masonry columns, July 2019, *Construction and Building Materials* (IF: 5,089), 214:303-317, ISSN: 0950-0618, DOI: 10.1016/j.conbuildmat.2019.04.111.
- J55. **Fabbrocino F.**, Formisano A., Grande E., Milani G., Bond Mechanism of FRPs Externally Applied to Curved Masonry Structures: Experimental Outcomes and Numerical Modeling, August 2019, *Key Engineering Materials* (IF: 0,35), 817:105-111, ISSN: 1013-9826, DOI: 10.4028/www.scientific.net/KEM.817.105.
- J56. **Fabbrocino F.**, Vaiano G., Formisano A., D'Amato M., Large-Scale Seismic Vulnerability and Risk of Masonry Churches in Seismic-Prone Areas: Two Territorial Case Studies, August 2019, *Frontiers in Built Environment* (IF: 2,14), 5, ISSN: 2297-3362, DOI: 10.3389/fbuil.2019.00102.
- J57. Cornacchia F., **Fabbrocino F.**, Fantuzzi N., Luciano R., Penna R., Analytical solution of cross-and angle-ply nano plates with strain gradient theory for linear vibrations and buckling, September 2019, *Mechanics of Advanced Materials and Structures* (IF: 4.030) 28(12), DOI: 10.1080/15376494.2019.1655613.
- J58. D'Ambra C., Lignola G.P., Prota A., **Fabbrocino F.**, Sacco E., FRCM strengthening of clay brick walls for out of plane loads, October 2019, *Composites Part B Engineering* (IF: 9.078) 174:1-11, DOI: 10.1016/j.compositesb.2019.107050.
- J59. **F. Fabbrocino F.**, Funari M.F., Greco F., Lonetti P., Luciano R., Numerical modeling based on moving mesh method to simulate fast crack propagation, December 2019, *Frattura ed Integrità Strutturale* 14(51):410-422, DOI: 10.3221/IGF-ESIS.51.30.
- J60. Grande E., Milani G., Formisano F., Ghiassi B., **Fabbrocino F.**, Bond behaviour of FRP strengthening applied on curved masonry substrates: numerical study, January 2020, *International Journal of Masonry Research and Innovation* (IF: 2,0) 5(3):303, DOI: 10.1504/IJMRI.2020.107980.
- J61. Funari M.F., Spadea S., **Fabbrocino F.**, Lonetti P., On the elastic properties of PVC foam, January 2020, *Procedia Structural Integrity* (IF: 1.4) 28(6):1503-1510, DOI: 10.1016/j.prostr.2020.10.123.
- J62. Darban H., **Fabbrocino F.**, Feo F., Luciano R., Size-dependent buckling analysis of nanobeams resting on two-parameter elastic foundation through stress-driven nonlocal elasticity model, March 2020, *Mechanics of Advanced Materials and Structures* (IF: 4.030) , DOI: 10.1080/15376494.2020.1739357.
- J63. Vaiano G., Formisano A., **Fabbrocino F.**, Parametric Analysis on Local Mechanisms of Masonry Churches in Teramo (Italy), April 2020, *Heritage* 3(2):176-197, DOI: 10.3390/heritage3020011.
- J64. Funari M.F., Spadea S., Lonetti P., **Fabbrocino F.**, Luciano R., Visual programming for structural assessment of out-of-plane mechanisms in historic masonry structures, April 2020, *Journal of Building Engineering* (IF: 5.318) 31(4-5):101425, DOI: 10.1016/j.jobbe.2020.101425.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- J65. Luciano R., Darban H., Bartolomeo C., **Fabbrocino F.**, Scorza D., Free flexural vibrations of nanobeams with non-classical boundary conditions using stress-driven nonlocal model, June 2020, Mechanics Research Communications (IF: 2,254) 107:103536, DOI: 10.1016/j.mechrescom.2020.103536.
- J66. Darban H., Luciano R., Caporale A., **Fabbrocino F.**, Higher modes of buckling in shear deformable nanobeams, June 2020, International Journal of Engineering Science (IF: 8.843) 154:103338, DOI: 10.1016/j.ijengsci.2020.103338.
- J67. Funari M.F., Spadea S., **Fabbrocino F.**, Luciano R., A Moving Interface Finite Element Formulation to Predict Dynamic Edge Debonding in FRP-Strengthened Concrete Beams in Service Conditions, June 2020, Fibers (IF: 3,20) 8(6):42, DOI: 10.3390/fib8060042.
- J68. Darban H., **Fabbrocino F.**, Luciano R., Size-dependent linear elastic fracture of nanobeams, September 2020, International Journal of Engineering Science (IF: 8.843) 157:103381, DOI: 10.1016/j.ijengsci.2020.103381.
- J69. Ramaglia G., **Fabbrocino F.**, Lignola G.P., Prota A., Impact of FRP and FRCM on the ductility of strengthened masonry members, October 2020, Structures (IF: 2.983) 28(2020):1229-1243, DOI: 10.1016/j.istruc.2020.09.025.
- J70. **Fabbrocino F.**, Darban H., Luciano R., Nonlocal layerwise formulation for interfacial tractions in layered nanobeams, October 2020, Mechanics Research Communications (IF: 2.254) 109(2), DOI: 10.1016/j.mechrescom.2020.103595.
- J71. Tocci Monaco G., Fantuzzi N., **Fabbrocino F.**, Luciano R., Hygro-thermal vibrations and buckling of laminated nanoplates via nonlocal strain gradient theory, November 2020, Composite Structures (IF: 5.407) 262:113337, DOI: 10.1016/j.compstruct.2020.113337.
- J72. Crisci G., Ramaglia G., Lignola G.P., **Fabbrocino F.**, Prota A., Effects of the Mortar Matrix on the Flexural Capacity of Masonry Cross Sections Strengthened with FRCM Materials, November 2020, Applied Sciences (IF: 2,679) 10(21):7908, DOI: 10.3390/app10217908.
- J73. Pittella E., Angrisani L., Cataldo A., Piuze E., **Fabbrocino F.**, Embedded Split Ring Resonator Network for Health Monitoring in Concrete Structures, December 2020, IEEE Instrumentation and Measurement Magazine (IF: 1,505) 23(9):14-20, DOI: 10.1109/MIM.2020.9289070.
- J74. Prota A., **Fabbrocino F.**, Lignola G. P., Ramaglia G., Structural analysis of historical masonry churches: the case study of S. Giuseppe delle Scalze (Naples, Italy), January 2021, International Journal of Masonry Research and Innovation 1(1):1, DOI: 10.1504/IJMRI.2021.10037509.
- J75. Tocci Monaco G., Fantuzzi N., **Fabbrocino F.**, Luciano R., Critical Temperatures for Vibrations and Buckling of Magneto-Electro-Elastic Nonlocal Strain Gradient Plates, January 2021, Nanomaterials (IF: 5,076) 11(1):87, DOI: 10.3390/nano11010087.
- J76. Bragaglia M., Lamastra F. R., Russo P., Vitiello L., Rinaldi M., **Fabbrocino F.**, Nanni F., A comparison of thermally conductive polyamide 6-boron nitride composites produced via additive layer manufacturing and compression molding, March 2021, Polymer Composites (IF: 3.171) 42(22), DOI: 10.1002/pc.26010.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- J77. Tocci Monaco G., Fantuzzi N., **Fabbrocino F.**, Luciano R., Trigonometric Solution for the Bending Analysis of Magneto-Electro-Elastic Strain Gradient Nonlocal Nanoplates in Hygro-Thermal Environment, March 2021, Mathematics, Mathematics (IF: 2,258) 2021,9, 567, DOI: 10.3390/math9050567.
- J78. Penna R., Feo L., Lovisi G., **Fabbrocino F.**, Hygro-Thermal Vibration of Porous FG Nano-Beams Based on Local/Nonlocal Stress Gradient Theory of Elasticity, April 2021, Nanomaterials (IF: 5,076) 11(4):910, DOI: 10.3390/nano11040910.
- J79. Tocci Monaco G., Fantuzzi N., **Fabbrocino F.**, Luciano R., Semi-analytical static analysis of nonlocal strain gradient laminated composite nanoplates in hygrothermal environment, May 2021, Journal of the Brazilian Society of Mechanical Sciences and Engineering (IF: 2.220) 43(5):274, DOI: 10.1007/s40430-021-02992-9.
- J80. Belliazzi S., **Fabbrocino F.**, Ramaglia G., Lignola G. P., Prota A., Masonry walls retrofitted with natural fibers under tsunami loads, May 2021, Materials and Structures (IF: 3.428) 54 (115), DOI: 10.1617/s11527-021-01707-9.
- J81. Russo P., Cimmino F., Tufano A., **Fabbrocino F.**, Thermal and Quasi-Static Mechanical Characterization of Polyamide 6-Graphene Nanoplatelets Composites, May 2021, Nanomaterials (IF: 5,076) 11(6):1454, DOI: 10.3390/nano11061454.
- J82. Paleari L., Bragaglia M., **Fabbrocino F.**, Nanni F., Structural Monitoring of Glass Fiber/Epoxy Laminates by Means of Carbon Nanotubes and Carbon Black Self-Monitoring Plies, June 2021, Nanomaterials (IF: 5,076) 11(1543):1-14, DOI: 10.3390/nano11061543.
- J83. Angrisano M., **Fabbrocino F.**, Iodice P., Fusco Girard L., The Evaluation of Historic Building Energy Retrofit Projects through the Life Cycle Assessment, August 2021, Applied Sciences (IF: 2,679) 11(15):7145, DOI: 10.3390/app11157145.

PUBLICATIONS on Conference International

- C1. Carpentieri, G., Modano, M., **Fabbrocino, F.**, Fraternali, F. Optimal design and dynamics of truss bridges, COMPDYN 2015 - 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, 1731-1740, SCOPUS: 2-s2.0-84942278796.
- C2. Modano, M., **Fabbrocino, F.**, Gesualdo, A., Matrone, G., Farina, I., Fraternali, F. On the forced vibration test by vibrodyne, COMPDYN 2015 - 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, 209-217, ISSN 00002015.
- C3. Modano, M., **Fabbrocino, F.**, Gesualdo, A., Carpentieri, G., Fraternali, F.. On the optimal design of the pre-tensioning of cable-stayed bridges (Sul progetto ottimale dello schema di tesatura dei ponti strallati), Atti del XXV CONGRESSO C.T.A. - XXV Italian Steel Days (Salerno, 1-3 Ottobre 2015), Vol. 1: Tensegrity and Stability (Tensegrity e Stabilità), 117-124, ISBN: 978-88-940089-4-4
- C4. Amendola. A., **Fabbrocino, F.**, Feo, L., Fraternali, F. Dependence of the mechanical properties of pentamode materials on the lattice microstructure, ECCOMAS Congress 2016 – European Congress on Computational Methods in Applied Sciences and Engineering, 5- 10 JUNE 2016 Crete Island, Greece, In: Proceedings of ECCOMAS 2016 Crete Island ECCOMAS Vol.No. 6004, Pag.1-17, ISBN:978-618828440-1.
- C5. Carpentieri, G., **Fabbrocino, F.**, De Piano, M., Feo, L., Fraternali, F. Minimal mass design of strengthening techniques for planar and curved masonry structures, ECCOMAS Congress 2016 – European Congress on Computational Methods in Applied Sciences and Engineering, 5- 10 JUNE 2016 Crete Island, Greece, In: Proceedings of ECCOMAS Congress 2016 Crete Island ECCOMAS Vol.No. 4654, Pag.1-10, ISBN:978-618828440-1.
- C6. **Fabbrocino, F.**, Farina, I., Amendola, A., Feo, L., Fraternali, F. Optimal design and additive manufacturing of novel reinforcing elements for composite materials, ECCOMAS Congress 2016 – European Congress on Computational Methods in Applied Sciences and Engineering, 5- 10 JUNE 2016 Crete Island, Greece, Proceedings of ECCOMAS Congress 2016 Crete Island ECCOMAS Vol. No. 4544, Pag.1-16, ISBN:978-618828440-1, (DOI): 10.7712/100016.1928.4544.
- C7. Carpentieri, G., Modano, M., **Fabbrocino, F.**, Feo, L., Fraternali, F. On the optimal design of cable-stayed bridges, ECCOMAS Congress 2016 – European Congress on Computational Methods in Applied Sciences and Engineering, 5- 10 JUNE 2016 Crete Island, Greece, Proceedings of ECCOMAS Congress 2016 Crete Island ECCOMAS Vol. 9574, Pag.1-9, ISBN:978-618828440-1.
- C8. Carpentieri, G., Modano, M., **Fabbrocino, F.**, Feo, L., Fraternali, F. On the mechanics of FRP/FRC-reinforced masonry structures, 2nd International Conference on Mechanics of Composites, 11-14 July 2016 Porto, Portugal, ISBN: 978-88-7488-963-1,

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- C9. Farina, I., **Fabbrocino, F.**, De Piano, M., Feo, L., Fraternali, F. Use of 3D printing techniques to improve the mechanical response of cementitious composites, 2nd International Conference on Mechanics of Composites, 11-14 July 2016, Porto, Portugal, In: 2nd International Conference on Mechanics of Composites Bologna Esculapio Vol.1, Pag.50-50, ISBN:978-88-7488-963-1.
- C10. Formisano, A., Chieffo, N., Monaco, D., **Fabbrocino, F.**, On the influence of the aggregate condition on the vibration period of masonry buildings: a case study in the district of Naples, 12 th INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES and ENGINEERING ICCMSE 2016, 17-20 March 2016, Athens, Greece, AIP Conference Proceedings > Volume 1790, Issue 1, DOI: 10.1063/1.4968723.
- C11. Formisano, A., Chieffo, N., **Fabbrocino, F.**, Seismic investigation on a masonry building compound in the historical centre of Bacoli (Naples), LE VIE DEI MERCANTI – XIV International Forum WORLD HERITAGE AND DEGRATION: Smart Design, Planning and Technologies, 16-18 June 2016, Capri, Italy.
- C12. Formisano, A., Chieffo, N., **Fabbrocino, F.**, Parametric analysis on first mode failure mechanisms of masonry building compounds: application to case studies, LE VIE DEI MERCANTI – XIV International Forum WORLD HERITAGE AND DEGRATION: Smart Design, Planning and Technologies, 16-18 June 2016, Capri, Italy.
- C13. Gesualdo, A., **Fabbrocino, F.**, Iannuzzo, A., Modano, M., Monaco, M., Seismic collapse analysis of stone arch bridge, LE VIE DEI MERCANTI – XIV International Forum WORLD HERITAGE AND DEGRATION: Smart Design, Planning and Technologies, 16-18 June 2016, Capri, Italy.
- C14. Modano, M., **Fabbrocino, F.**, Gesualdo, A., Matrone, G., Dynamic identification of a innovative technology building, LE VIE DEI MERCANTI – XIV International Forum WORLD HERITAGE AND DEGRATION: Smart Design, Planning and Technologies, 16-18 June 2016, Capri, Italy.
- C15. D’Ambra, C., **Fabbrocino, F.**, Lignola, G.P., Prota, A., Manfredi, G., Effect of degradation of constituents on global performance of historical masonry, LE VIE DEI MERCANTI – XIV International Forum WORLD HERITAGE AND DEGRATION: Smart Design, Planning and Technologies, 16-18 June 2016, Capri, Italy.
- C16. Bossio, A., **Fabbrocino, F.**, Lignola, Monetta, T., Bellucci, F., G.P., Prota, A., Manfredi, G., Effect of Corrosion on Reinforced Concrete Structures, LE VIE DEI MERCANTI – XIV International Forum WORLD HERITAGE AND DEGRATION: Smart Design, Planning and Technologies, 16-18 June 2016, Capri, Italy.
- C17. Formisano, A., Iazzetta, G., Marino, G., **Fabbrocino, F.**, Landolfo, R., Seismic Residual Capacity Assessment of Framed Structures Damages by Exceptional Load Actions, ECCOMAS Congress 2016 – European Congress on Computational Methods in Applied Sciences and Engineering, 5- 10 JUNE 2016 Crete Island, Greece, Vol. 3, Pagg. 4942-4958, ISBN: 9786188284401.
- C18. Formisano A., Chiumiento G., **Fabbrocino F.**, Landolfo R., Comparative seismic evaluation between numerical analysis and Italian Guidelines on Cultural Heritage applied to the case study of a masonry building compound, 14TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2016), At Rhodes (Greece), Sept 2016, AIP Conference Proceedings > Volume 1863, Issue 1, ISBN: 978-0-7354-1538-6, DOI: 10.1063/1.4992617.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- C19. Antonio Formisano, Nicola Chieffo, **Francesco Fabbrocino**, Raffaele Landolfo, Seismic vulnerability and damage of Italian historical centres: a case study in the Campania region, 14TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2016), At Rhodes (Greece), Sept 2016, AIP Conference Proceedings > Volume 1863, Issue 1, ISBN: 978-0-7354-1538-6, DOI: 10.1063/1.4992616.
- C20. Nicola Chieffo, Antonio Formisano, **Francesco Fabbrocino**, Marius Mosoarca, Urban Resilience of Historical Centre: an application to a building sector in the Municipality of Marigliano (Naples, Italy), Risk Reduction for Resilient Cities, At Bucharest, Nov 2016, Romania.
- C21. Amendola A., Titirla M.D., Penna R., **Fabbrocino F.**, ON THE DESIGN OF PERFORMANCE-BASED PENTAMODE BEARINGS, January 2017, 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Methods in Structural Dynamics and Earthquake Engineering, ISBN: 9786188284425, DOI: 10.7712/120117.5731.17751.
- C22. Miranda R., **Fabbrocino F.**, Sicignano E., Skelton R.E., Fraternali F., INNOVATIVE STRUCTURES FOR DYNAMIC SOLAR FAÇADES, January 2017, 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Methods in Structural Dynamics and Earthquake Engineering, In: COMPDYN 2017 - Proceedings of the 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering National Technical University of Athens Vol.2, Pag.4007-4016, ISBN: 9786188284425, DOI: 10.7712/120117.5700.17756.
- C23. Amendola A., **Fabbrocino F.**, Favata A., Micheletti A., Fraternali F., Daraio C., EXPERIMENTAL AND NUMERICAL STUDY OF WAVE DYNAMICS IN TENSEGRITY COLUMNS, January 2017, 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Methods in Structural Dynamics and Earthquake Engineering, In: COMPDYN 2017 - Volume II European Community on Computational Methods in Applied Sciences (ECCOMAS) Vol.2, Pag.4796-4809, ISBN: 978-618828442-5, DOI: 10.7712/120117.5762.17728.
- C24. **Fabbrocino F.**, Carpentieri G., Amendola A., Penna R., Fraternali F., ACCURATE NUMERICAL METHODS FOR STUDYING THE NONLINEAR WAVE-DYNAMICS OF TENSEGRITY METAMATERIALS, January 2017, 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Methods in Structural Dynamics and Earthquake Engineering, In: COMPDYN 2017 - Volume II European Community on Computational Methods in Applied Sciences Vol.2, Pag.3911-3922, ISBN:978-618-82844-2-5, DOI: 10.7712/120117.5693.17765.
- C25. **Fabbrocino F.**, Titirla M.D., Amendola A., Benzoni G., Fraternali F., INNOVATIVE DEVICES FOR THE BASE ISOLATION OF EXISTING BUILDINGS, January 2017, 6th International Conference on Computational Methods in Structural Dynamics and Earthquake

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- Engineering Methods in Structural Dynamics and Earthquake Engineering, In: COMPDYN 2017 - Volume II European Community on Computational Methods in Applied Sciences (ECCOMAS) Vol.2, Pag.4393-4407, ISBN:978-618-82844-2-5 DOI: 10.7712/120117.5732.17771.
- C26. Ramaglia G., Lignola G.P., **Fabbrocino F.**, Prota A., Numerical Modelling of Masonry Barrel Vaults Reinforced with Textile Reinforced Mortars, June 2017, Key Engineering Materials VOL. 747, Pages: 1-19 Mechanics of Masonry Structures Strengthened with Composite Materials, MURICO 5, At Bologna, ISSN: 1662-9795, DOI: 10.4028/www.scientific.net/KEM.747.11.
- C27. D'Ambra C., Lignola G.P., **Fabbrocino F.**, Prota A., Sacco E., Repair of Clay Brick Walls for out of Plane Loads by Means of FRM, June 2017, Key Engineering Materials, Vol. 747, pp. 358-365, Mechanics of Masonry Structures Strengthened with Composite Materials, MURICO 5, At Bologna, ISSN: 1662-9795, DOI: 10.4028/www.scientific.net/KEM.747.358.
- C28. **Fabbrocino F.**, Formisano A., Milani G., Fragility and resilience analysis of a cultural heritage centre in the district of Naples, June 2017, XV International Forum "Le Vie dei Mercanti" - WORLD HERITAGE and DISASTER - Knowledge, Culture and Representation, At Naples-Capri, Italy.
- C29. Bossio A., Lignola G.P., **Fabbrocino F.**, Prota A., Manfredi G., Evaluation of seismic behavior of corroded reinforced concrete structures, June 2017, XV international forum World Heritage and Disaster, At Napoli-Capri (Italy).
- C30. Ramaglia G., Lignola G.P., **Fabbrocino F.**, Prota A., Impact of inorganic matrix strengthening systems on heritage masonry structures, June 2017, XV international forum World Heritage and Disaster, At Napoli-Capri (Italy).
- C31. Sarhosis V., **Fabbrocino F.**, Formisano A., Milani G., SEISMIC VULNERABILITY OF DIFFERENT IN GEOMETRY HISTORIC MASONRY TOWERS, June 2017, COMPDYN 2017 6th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, At Rhodes Island, Greece, 15-17 June 2017, Eccomas Proceedia, pp. 2519-2532. ISBN 9786188284418 DOI: 10.7712/120117.5585.17918.
- C32. D'Ambra C., Lignola G.P., **Fabbrocino F.**, Sacco E., Prota A., Out of plane behavior of unreinforced clay brick walls, July 2017, 3rd International Conference on PROTECTION OF HISTORICAL CONSTRUCTIONS - PROHITECH 2017, At Lisboa (Portugal), ISBN: 9789898481580.
- C33. Ramaglia G., Lignola G.P., **Fabbrocino F.**, Prota A., Incremental analysis of masonry barrel vaults, July 2017, 3rd International Conference on PROTECTION OF HISTORICAL CONSTRUCTIONS - PROHITECH 2017, At Lisboa (Portugal), ISBN: 9789898481580.
- C34. Cecchini F., **Fabbrocino F.**, Cherubini V., Nanni F., FEM analysis and experimental

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- validation of EPDM samples via FDM, July 2017, ICCE 25, At Rome.
- C35. Amendola, A.; **Fabbrocino, F.**; Favata, A.; Micheletti, A.; Fraternali, F.; Daraio, C., Experimental and numerical study of wave dynamics in tensegrity columns, 6 th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Rhodes Island, Greece 15-17 June 2017, In: COMPDYN 2017 - Volume II European Community on Computational Methods in Applied Sciences (ECCOMAS) Vol.2, Pag.4796-4809, ISBN:978-618828442-5.
- C36. **Fabbrocino, F.**; Titirla, M.; Amendola, A.; Benzoni, G.; Fraternali, F., Innovative devices for the base isolation of existing buildings, 6 th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Rhodes Island, Greece 15-17 June 2017, In: COMPDYN 2017 - Volume II European Community on Computational Methods in Applied Sciences (ECCOMAS) Vol.2, Pag.4393-4407, ISBN:978-618-82844-2-5.
- C37. **Fabbrocino F.**, Liguori B., Caputo D., Prota A., Lignola G.P., Stabilization of pedestrian and cycling pathways: a mechanical characterization, September 2017, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.1, Pag.1136-1143, ISBN:9788894248470.
- C38. Ramaglia G., Lignola G.P., **Fabbrocino F.**, Prota A., Impact of natural fibers on the ultimate behaviour of masonry elements, September 2017, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.1, Pag.1136-1143, ISBN:9788894248470.
- C39. Formisano A., Dessi E. J., Chiumento G., **Fabbrocino F.**, Experimental shear tests on tuff triplets with hemp fibres reinforced lime mortar, September 2017, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.1, Pag.1136-1143, ISBN:9788894248470.
- C40. Titirla M. D., Katakalos K., Zuccaro G., **Fabbrocino F.**, On a novel energy dissipation mechanism of truss structures, September 2017, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.2, Pag.1036-1043, ISBN:9788894248470.
- C41. Babilio, Enrico; **Fabbrocino, Francesco**; Durand, Marc; Fraternali, Fernando, Explicit

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- conditions on geometry and elastic moduli of stiffest anisotropic tetrakis and tetrakis-like lattices, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.1, Pag.1136-1143, ISBN:9788894248470
- C42. Farina, I.; Cioffi, R.; **Fabbrocino, F.**; Russo, P.; Fraternali, F., Reinforcement of cement mortars with additively manufactured fibers in recycled nylon, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.3, Pag.2038-2046, ISBN:9788894248470.
- C43. Miranda, R.; Fabbrocino, F.; Matheou, M.; Phocas, M. C.; Fraternali, F., Adaptive tensegrity structures for dynamic facades of energy efficient buildings, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.1, Pag.1074-1081, ISBN:9788894248470
- C44. D'Ambra C., Lignola G.P., **Fabbrocino F.**, Prota A., Sacco E., FRM strengthening of clay brick walls for out of plane loads, September 2017, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.1, Pag.1136-1143, ISBN:9788894248470.
- C45. Titirla M. D., **Fabbrocino F.**, Amendola A., Fraternali F., On the mechanics of pentamode lattices, September 2017, 23rd Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017, Salerno IT, In: AIMETA 2017 - Proceedings of the 23rd Conference of the Italian Association of Theoretical and Applied Mechanics Centro Servizi d'Ateneo S.r.l. Vol.1, Pag.1136-1143, ISBN:9788894248470.
- C46. Angrisani L., Schiano Lo Moriello R., Bonavoltà F., Gallucci L., Menna C., Asprone D., **Fabbrocino F.**, An innovative embedded wireless sensor network system for the structural health monitoring of RC structures, September 2017, IEEE 3rd International Forum on Research and Technologies for Society and Industry - Innovation to Shape the Future for Society and Industry (RTSI), ISBN: 978-1-5386-3906-1, DOI: 10.1109/RTSI.2017.8065969.
- C47. Formisano A., Reza Sheidaii M., Hadi Monsef Ahmadi, **Fabbrocino F.**, Numerical calibration of experimental tests on perforated steel plate shear walls: Influence of the tightening torque in the plate-frame members bolted connections, INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2017),

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- July 2018, AIP Conference Proceedings, Volume 1978, Issue 1, ISBN: 978-0-7354-1690-1, DOI: 10.1063/1.5044059.
- C48. Ramaglia G., **Fabbrocino F.**, Lignola G.P., Prota A., Manfredi G., Ductility-based incremental analysis of masonry structures strengthened with composites, June 2018, Conference: XV international forum World Heritage and Knowledge.
- C49. **Fabbrocino F.**, Lignola G.P., Prota A., Theoretical assessment of reinforced concrete T-shaped beam-column joints, INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2017), July 2018, AIP Conference Proceedings, Volume 1978, Issue 1, ISBN: 978-0-7354-1690-1, DOI: 10.1063/1.5044056.
- C50. Milani G., Formisano A., **Fabbrocino F.**, Design of new structures and vulnerability reduction of existing buildings in presence of seismic loads: Open challenges, INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2017), July 2018, AIP Conference Proceedings, Volume 1978, Issue 1, ISBN: 978-0-7354-1690-1, DOI: 10.1063/1.5044055.
- C51. Formisano A., **Fabbrocino F.**, Mohammad Reza Sheidaii, Hadi Monsef Ahmadi, Numerical calibration of experimental tests on perforated steel plate shear walls: Influence of the tightening torque in the plate-frame members bolted connections, INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2017), July 2018, AIP Conference Proceedings, Volume 1978, Issue 1, ISBN: 978-0-7354-1690-1, DOI: 10.1063/1.5044059.
- C52. Bossio A., **Fabbrocino F.**, Lignola G.P., Prota A., HPC retrofit of corroded reinforced concrete structures, July 2018, Conference: 26th ICCE2018, At: Paris, France.
- C53. **Fabbrocino F.**, Cecchini F., Russo P., Nanni F., Use of natural fibrous lime mortar for improving the out of plane lateral resistance of masonry, August 2018, Conference: ICCM 2018, At: Rome. Italy.
- C54. Formisano A., Vaiano G., **Fabbrocino F.**, A seismic-energetic-economic combined procedure for retrofitting residential buildings: a case study in the province of Avellino (Italy), October 2018, Conference: ICNAAM 2018 - 16TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, At: Rhodes, Greece, AIP Conference Proceedings, Volume 2116, Issue 1, ISBN: 978-0-7354-1854-7, DOI: 10.1063/1.5114435.
- C55. **Fabbrocino F.**, Vaiano G., Formisano A., Parametric analysis on local collapse mechanisms of masonry churches, October 2018, Conference: ICNAAM 2018 - 16TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, At: Rhodes, Greece, AIP Conference Proceedings, Volume 2116, Issue 1, ISBN: 978-0-7354-1854-7, DOI: 10.1063/1.5114430.
- C56. **Fabbrocino F.**, Ramaglia G., Lignola G.P., Prota A., Manfredi G., Ductility capacity

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

- assessment of masonry members strengthened with composites, June 2019, Conference: Compdyn 2019 - 7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering At: 24-26 June 2019, Crete, Greece.
- C57. Clementi F., Milani G., **Fabbrocino F.**, Formisano A., Open challenges towards a seismic protection of new and existing buildings, July 2019, CENTRAL EUROPEAN SYMPOSIUM ON THERMOPHYSICS 2019 (CEST), AIP Conference Proceedings, Volume 2116, Issue 1, ISBN: 978-0-7354-1854-7, DOI: 10.1063/1.5114428.
- C58. Ramaglia G., Crisci G., **Fabbrocino F.**, Lignola G.P., Prota A., FRP vs FRCM in flexural strengthening of masonry, August 2019, Conference: 5th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures At: Berlin Volume: Proceedings ISBN 978-3-947971-07-7.
- C59. **Fabbrocino F.**, Russo P., Luciano R., Mechanical properties of hemp fibre based composite materials: Influence of fibre content, size and weathering, Conference: AIMETA 2019 At: Rome, September 2019.
- C60. Chiumiento G., Formisano A., **Fabbrocino F.**, Experimentation on lime mortars reinforced with jute fibres: mixture workability and bending resistance, Conference: AIMETA 2019 At: Rome, September 2019.
- C61. Belliazzi S., Lignola G.P., Prota A., **Fabbrocino F.**, Masonry walls retrofitted with natural fibers under tsunami loads, Conference: AIMETA 2019 At: Rome, September 2019.
- C62. Russo P., Nanni F., **Fabbrocino F.**, Influence of weathering and sequence of stacking on the mechanical properties of hybrid natural fibre thermoplastic composites, Conference: AIMETA 2019 At: Rome, September 2019.
- C63. Formisano A., **Fabbrocino F.**, Vaiano G., Parametric analysis on the seismic response of masonry bell towers, December 2019, AIP Conference Proceedings 2186(1):100002, Conference: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2019 (ICCMSE-2019), DOI: 10.1063/1.5138008.
- C64. Bruno D., **Fabbrocino F.**, Funari M.F., Greco F., Lonetti P., Spadea S., An Experimental and Numerical Study to Evaluate the Crack Path Under Mixed Mode Loading on PVC Foams, March 2020, Conference: Conference of the Italian Association of Theoretical and Applied Mechanics, DOI: 10.1007/978-3-030-41057-5_31.
- C65. Crisci G., Ramaglia G., Lignola G.P., **Fabbrocino F.**, Prota A., Assessment of flexural ductility in strengthened masonry with composites including the effect of matrix, September 2020, Conference: ICCS23 - 23rd International Conference on Composite Structures & MECHCOMP6 - 6th International Conference on Mechanics of Composites At: Porto – Portugal.
- C66. Pittella E., Piuze E., Russo P., Fabbrocino F., Microwave characterization of Polyamide 6

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300

Graphene Nanoplatelet Composites, June 2021, Conference: 2021 IEEE International Workshop on Metrology for Industry 4.0 & IoT (MetroInd4.0&IoT), DOI: 10.1109/MetroInd4.0IoT51437.2021.9488529.

Mail: francesco.fabbrocino@unipegaso.it

Tel.: +39 08119138300