

SHORT Curriculum VITAE



Fabrizio GRECO

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Google Scholar: Fabrizio Greco (<https://scholar.google.it/citations?hl=it&user=u3gBPuEAAAJ>)

Research Gate https://www.researchgate.net/profile/Fabrizio_Greco

Website: <http://eleanor.unical.it/eleanor/dettaglioanagrafica.asp?dipartimento=1&ruolo=1&docente=69>

EDUCATION: 13.11.1997 Civil Engineering Degree, University of Calabria, 110/110 with honors; 19.06 2002 Ph.D. Dissertation, University of Rome “Tor Vergata”.

POSITION: From November 2017: Full Professor of Structural Engineering at University of Calabria, Italy; From January 2005 until October 2017: Associate Professor of Structural Engineering at University of Calabria, Italy; From November 1999 until December 2004: Assistant professor of Structural Engineering at University of Calabria, Italy; On 01.13.2014 (ASN 2012 session) and on 26.01.2015 (ASN 2013 session) received the national scientific qualification for full professor in the sector 08/B.

TEACHING ACTIVITIES: Undergraduate courses of Structural Mechanics for the Master Degree in Building Engineering-Architecture and for the Bachelor Degree in Civil Engineering. In the past undergraduate courses Strength of Materials, Dynamics of Structures, Seismic Dynamics of Structures, Statics; graduate courses of Theory of Structures, Structural Analysis and Modelling of Buildings, Structural Mechanics. Graduate course of Design of reinforced concrete structures in a BIM environment.

RESEARCH LABORATORY: Scientific Supervisor of the Research Laboratory “Materials and Structures Engineering” at the University of Calabria; Scientific Supervisor of the Shaking Table for the scientific area of Structural Engineering installed in the Laboratory for testing of materials and structures at the University of Calabria.

INTERNATIONAL JOURNAL REFEREE ACTIVITIES: Reviewer for several journals such as: International Journal of Solids and Structures, Engineering Fracture Mechanics, European Journal of Mechanics A/Solids, International Journal of Mechanical Sciences, International Journal of Non-Linear Mechanics, Composite Structures, Composites Part B: Engineering; Construction and Building Materials, Journal of Sound and Vibration, International Journal of Damage Mechanics, Theoretical

and Applied Fracture Mechanics, Journal of Composite Materials, Mechanics of Advanced Materials and Structures, Journal of Mechanics of Materials and Structures, Annals of Solids and Structural Mechanics, Structural Engineering Mechanics, Applied Mathematical Modelling, Recent Patents on Mechanical Engineering, Journal of Mechanical Engineering Research, Journal of Structures, Meccanica, Mathematical Problems in Engineering, Steel and Composite Structures, Journal of Zhejiang University-SCIENCE A, Journal of Computational Science, Journal of Structures; Journal of Structures; International Journal of Smart and Nano Materials; Computer Methods in Biomechanics and Biomedical Engineering, Journal of the Mechanical Behavior of Biomedical Materials, Journal of Testing and Evaluation, International Journal for Multiscale Computational Engineering.

INTERNATIONAL RESEARCH PROPOSAL REFEREE ACTIVITIES: Referee for Research project proposal within the Marsden Fund administered by the Royal Society of New Zealand in the panel Engineering and Interdisciplinary Sciences; Referee for research proposal submitted to the Israel Science Foundation.

NATIONAL RESEARCH PROPOSAL REFEREE ACTIVITIES: invited as Referee for the evaluation of research proposal "SIR 2014" funded by MIUR; Referee for the scientific evaluation of projects presented under the "Procedura per l'attuazione dell'intervento FARE Ricerca in Italia: framework per l'attrazione e il rafforzamento delle eccellenze per la ricerca in Italia", year 2016. Period April-May 2017; member of the Reprise Register (Register of Expert Peer Reviewers for Italian Scientific Evaluation) set up by the MIUR for the evaluation of research projects. From September 2015 registered for the Basic Research section and from May 2019 also for the Competitive and social development industrial research section.

REVIEWER ACTIVITY FOR VQR 2011-2014: invited as Reviewer for The Italian Research and University Evaluation Agency (ANVUR) within the evaluation of the Italian research system for the period 2011-2014 (VQR 2011-2014).

CURRENT RESEARCH ACTIVITIES: Composite materials: interface models for delamination, debonding in FRP-strengthened beams, numerical approaches to damage of composites, interlaminar and intralaminar damage, laminated composite plates, dynamic delamination; Fracture Mechanics: finite element analysis with discrete-crack and interface models in composite materials and reinforced concrete elements; multiple cracking in plain and reinforced concrete elements by refined diffuse cohesive interface models. Stability and large deformations: Material and structural instabilities in solid with incremental constitutive law. Homogenization: Macroscopic properties of composite materials with evolving micro-structure due to contact and fracture initiation and propagation; interactions between micro and macro-instabilities in solids with heterogeneous microstructure; Multiscale approaches: failure analysis in fiber-reinforced composite materials under large deformations; crack propagation analysis in lightweight aggregate concrete; multiscale failure analysis of periodic masonry structures with traditional and fiber-reinforced mortar joints; static and dynamic response of bioinspired composite materials. Bridges: long span bridges; static and dynamic analysis with moving loads; bridges under extreme fluid actions. Seismic engineering: nonlinear dynamic analysis of base-isolated structures with mixed explicit-Implicit time Integration methods; seismic vulnerability analysis of historical masonry structures.

RECENT RESEARCH PROJECTS:

Head of the Research Unit at the University of Calabria within the framework of the PRIN 2017 Project with the MULTISCALE INNOVATIVE MATERIALS AND STRUCTURES (MIMS), (National Project Coordinator: FRATERNALI Fernando) funded by D.D. MIUR n.453 dated 13.03.2019 with an overall score of 100/100 (LINE C), total admitted cost equal to € 816.790,00.

Research unit component of the following PRIN projects “Advanced mechanical modeling of new materials and structures for the solution of 2020 Horizon challenges” (2015), “Fiber-reinforced Composites: constitutive laws and damage phenomena modelling” (2007), “High performance concrete structures: fracture, damage and reinforcement techniques” (2003); research unit components of the inter-university research projects MURST "Identification Modeling and Control of Uncertainties in the Design of Large Span Bridges” (2002), “High Performance Concrete: Calculation and Design Methods and Regulatory Aspects” (2001).

Component of the University of Calabria research group appointed to carry out the technical-scientific consultancy activity relating to the structural analysis program on the structure of the "Bisantis" (formerly Morandi) of Catanzaro (Italy), entrusted by ANAS S.p.A. on 13/09/2017.

Scientific Coordinator for the Department of Civil Engineering in the context of the research protocol between the Regional Secretariat of MiBACT for Calabria and the UNICAL Department of Civil Engineering prot. n. 185 of 09/02/2018 for the analysis of structural problems related to the modeling and assessment of the seismic vulnerability of the Cathedral Church of Catanzaro.

Admitted to funding of basic research activities according to the Law 11 December 2016 no. 232 (FFABR), with a score of scientific output of 67 within the Associate Professors.

Scientific representative for activity n. 2 of the financing proposal AIM1810287 presented for the announcement "AIM - Attraction and International Mobility" D.D. MIUR n. 407/2018 PON "Research and Innovation" 2014-2020, Axis I "Investments in human capital", admitted to financing for a total cost of € 556,933.20 with DD. N. 3407/2018 AIM1810287 - 2, Area of specialization prevalent among those relating to SNSI: Cultural Heritage.

Scientific representative for two research contracts of RTDa cofinanced by MUR with DM n. 1062, august 10, 2021, on the topics Innovation and Green. Title of the researches: “New models and advanced techniques for damage identification and monitoring of existing bridges” and “Advanced models and sustainable strategies for risk reduction of historical-cultural buildings”.

SCIENTIFIC COMMITTEES:

Member of the “International Scientific Advisory (ISA) Committee of ICCM2018” within the 9th International Conference for Computation Methods (ICCM2018), Rome, Italy at August 6th –10th, 2018.

Member of the Scientific Committee for the AIMETA Junior Awards established by the AIMETA association for the year 2019, for the area of Mechanics of Solids and Structures.

Member of the Scientific Committee of the XXV AIMETA Congress, 4-9 September 2022 in Palermo.

Member of the Technical Scientific Committee in the context of the Operational plan for monitoring bridges and viaducts of non-ANAS road networks, with Decree of the Calabria Region n. 9540 of September 23, 2021.

SCIENTIFIC AWARDS: Included for the two consecutive years 2020 and 2021 in the list of world’s top 2% scientists, the best international scientists belonging to various disciplines published by the journal Plos Biology and present in the Mendeley dataset (2020 dataset referred to year 2019 and updated on the May 06, doi: 10.17632/btchxktzyw.2; 2021 dataset referred to year 2020 and updated to Aug 01 2021 doi: <https://doi.org/10.17632/btchxktzyw.3>). The analysis was conducted by John PA Ioannidis of Stanford University with Jeroen Baas, Richard Klavans and Kevin W. Boyack

in the paper "A standardized citation metrics author database annotated for scientific field," Plos Biology <https://doi.org/10.1371/journal.pbio.3000384>.

KEYNOTE LECTURE: keynote presentation at European Solid Mechanics Conference ESMC 2018 Bologna, July 2-6 2018.

CHAIRMAN OF INTERNATIONAL CONGRESSES: International Conference CICE 2006, December 13-15, 2006 Miami Florida USA; International Conference WCCM08-ECCOMAS, 30 June-4 July Venice; ACE-X 2009 3rd International Conference on advanced computational engineering and experimenting, 22-23 June, 2009, Rome, Session "Porous Media and Composite Materials; AIAS XXIX Conference, 7-10 Settembre 2010, Maratea, Session Numerical Methods.

INSTITUTIONAL RESPONSIBILITIES: Vice-Coordinator of the PhD Course "Environment, Construction and Energy Science and Engineering" (SIACE-PhD), University of Calabria; Member of the working group for the "Programming of extraordinary maintenance interventions on buildings and technological systems of University of Calabria"; Coordinator of the Council for the Master of Science in Building Engineering-Architecture since 19/12/2019 to date; Rector's Delegate for Building Heritage and Planning since 08/01/2020 to date, appointed with D.R. n. 25 08/01/2020; Coordinator of the Commission for projects relating to public works.

PUBLICATIONS: author and co-author of more than 250 published research articles, of which 104 are refereed international journal papers, 7 are invited chapters in international books, 87 are contributions in proceedings of international conferences, 43 are papers in proceedings of national conferences.

INTERNATIONAL JOURNAL EDITORIAL BOARD MEMBERSHIP:

Associate Editor for "*Structural Durability & Health Monitoring*" (ISSN 1930-2983 print, ISSN 1930-2991 online), Scopus Citescore (Impact per Publication 2021): 2.0; SNIP (Source Normalized Impact per Paper 2021): 0.779, from June 2022 to date (https://techscience.com/sdhm/info/abt_editor).

Member of the editorial board for "*Mathematical Problems in Engineering*" ISSN: 1024-123X (from 2012 to 2014; from 2016 to date) and for "*The Scientific World Journal*" ISSN: 1537-744X (from 2012 to 2016).

Member of the Editorial Advisory Board for "*Science and Engineering of Composite Materials*" (<https://www.degruyter.com/view/j/secm>), ISSN 2191-0359, IMPACT FACTOR 2017: 0.619, Walter de Gruyter GmbH, Germany, from December 2018 to date.

Member of the Editorial Board of "*AIMS Materials Science*" ISSN (Online): 2372-0484, Publisher: AIMS Press (2018 CiteScore 1.14 Scopus), from May 2020 to date.

Member of the Editorial Board of "*Buildings*" (ISSN 2075-5309, <http://www.mdpi.com/journal/buildings>) Open Access, Journal Rank: CiteScore - Q1 (Architecture). from May 2021 to date.

MAIN BIBLIOMETRIC INDICATORS: (updated to 22.06.2022; Scopus database): h-index=32; Total citations 2166 by 1111 documents; 109 Scopus documents from 2000 to 2022; Number of citations for the most cited articles: 117; Coauthors: 39.

SELECTED PUBLICATIONS

ARTICLES:

[A1] D. Bruno - F. Greco: An asymptotic analysis of delamination buckling and growth in layered plates. *International Journal of Solids and Structures*, Vol. 37, No. 43, pp. 6239-627, 2000. ISSN: 00207683. Codice Scopus: 2-s2.0-0000901374; Codice ISI Web of Science: WOS:000088530600004. DOI: 10.1016/S0020-7683(99)00281-4.

[A2] R. Zinno - F. Greco: Damage evolution in bimodular laminated composites under cyclic loading. *Composite Structures*, Vol. 53, pp.381-402, 2001. ISSN: 02638223. DOI: 10.1016/S0263-8223(01)00048-4. Codice Scopus: 2-s2.0-0035451587; Codice ISI Web of Science: WOS:000170599900002.

[A3] D. Bruno – F. Greco: Delamination in Composite Plates: influence of shear deformability on interfacial debonding. *Cement & Concrete Composites*, Vol. 23/1 , pp. 33-45, 2001. ISSN: 09589465. DOI: 10.1016/S0958-9465(00)00068-8. Codice Scopus: 2-s2.0-0035247979; Codice ISI Web of Science: WOS:000168066500004.

[A4] D. Bruno - F. Greco: Mixed mode delamination in plates: a refined approach. *International Journal of Solids and Structures*, Vol. 38, Issue 50-51, pp. 9149-9177, 2001. ISSN: 00207683. DOI: 10.1016/S0020-7683(01)00179-2. Codice Scopus: 2-s2.0-0035976661; Codice ISI Web of Science: WOS:000172609100011.

[A5] F. Greco – P. Lonetti- R. Zinno: An analytical delamination model for laminated plates including bridging effects. *Int. J. Solids and Structures*, Vol. 39, pp. 2435-2463, 2002. ISSN: 00207683. DOI: 10.1016/S0020-7683(02)00118-X. Codice Scopus: 2-s2.0-0037198011; Codice ISI Web of Science: WOS:000175679000005.

[A6] D. Bruno- F. Greco: An efficient model of mixed-mode delamination in laminated composites including bridging mechanisms. *Simulation Modelling Practice and Theory*, Vol. 11, pp. 465-481, 2003. ISSN: 1569190X. DOI: 10.1016/S1569-190X(03)00055-8. Codice Scopus: 2-s2.0-0242688583; Codice ISI Web of Science: WOS:000184569200010.

[A7] P. Lonetti- E.J. Barbero - R. Zinno- F. Greco: Interlaminar damage model for polymer matrix composites. *Journal of Composite Materials*, Vol 37 (16), pp. 1485-1504, 2003. ISSN: 00219983. DOI: 10.1177/0021998303034741. Codice Scopus: 2-s2.0-0042527183; Codice ISI Web of Science: WOS:000184892600004.

[A8] D. Bruno - F. Greco - P. Lonetti: A coupled interface-multilayer approach for mixed mode delamination and contact analysis in laminated composites. *Int. J. Solids and Structures*, Vol 40, pp. 7245-7268, 2003. ISSN: 00207683. DOI: 10.1016/j.ijsolstr.2003.09.006. Codice Scopus: 2-s2.0-0242490338; Codice ISI Web of Science: WOS:000186833700001.

[A9] E.J. Barbero – F. Greco- P. Lonetti: Continuum damage-healing mechanics with application to self-healing composites. *International Journal of Damage Mechanics*, Vol. 14, Issue 1, , pp. 51-81, 2005. ISSN: 10567895. DOI: 10.1177/1056789505045928. Codice Scopus: 2-s2.0-12744254714; Codice ISI Web of Science: WOS:000226367500003.

[A10] D. Bruno, F. Greco, P. Lonetti: A 3D Delamination Modelling Technique Based On Plate And Interface Theories For Laminated Structures. *European Journal of Mechanics A/Solids*, Vol. 24, pp. 127-149, 2005. ISSN: 09977538. DOI: 10.1016/j.euromechsol.2004.11.005. Codice Scopus: 2-s2.0-13244272310; Codice ISI Web of Science: WOS:000227234200010.

[A11] D. Bruno - F. Greco – P. Lonetti: Computation of energy release rate and mode separation in delaminated composite plates by using plate and interface variables. *Mechanics of Advanced Materials and Structures*, Vol. 12 n.4 July-August, pp. 285 - 304, 2005. ISSN: 15376494. DOI: 10.1080/15376490590953563. Codice Scopus: 2-s2.0-27944447252; Codice ISI Web of Science: WOS:000229760600004.

[A12] F. Greco, R. Luciano: Analysis of the influence of incremental material response on the structural stability. *Mechanics of Advanced Materials and Structures*, Vol. 12, Issue 5, 363-377, 2005. ISSN: 15376494. DOI: 10.1080/15376490500182156. Codice Scopus: 2-s2.0-27844531049; Codice ISI Web of Science: WOS:000230986200006.

[A13] D. Bruno, R. Carpino, F. Greco, P. Lonetti: Energy release rate and mode partition for interlaminar crack in circular laminated beams. *Int. J. Solids and Structures*, Vol. 43, pp- 1201-1223 2006. ISSN: 00207683. DOI: 10.1016/j.ijsolstr.2005.03.054. Codice Scopus: 2-s2.0-29244459721; Codice ISI Web of Science: WOS:000235398800018.

[A14] F. Greco, P. Lonetti, P. Nevone Blasi: An analytical investigation of debonding problems in beams strengthened using composite plates. *Engineering Fracture Mechanics*, Vol. 74 (3), pp. 346-372, February

2007. ISSN: 00137944. DOI: 10.1016/j.engfracmech.2006.05.023. Codice Scopus: 2-s2.0-33750704936; Codice ISI Web of Science: WOS:000243647200004.

[A15] D. Bruno, R. Carpino, F. Greco: Modelling of mixed mode debonding in FRP reinforced beams. *Composites Science and Technology*, Vol. 67, pp. 1459-1474, 2007. ISSN: 02663538. DOI: 10.1016/j.compscitech.2006.07.019. Codice Scopus: 2-s2.0-33847733871; Codice ISI Web of Science: WOS:000246253200019.

[A16] F. Greco: An investigation on static and dynamic criteria of constitutive stability. *Mechanics of Advanced Materials and Structures*, Volume 14, Issue 5, pp.347-363, 2007. Corrigendum, *Mechanics of Advanced Materials and Structures*, Volume: 15 Issue: 1, Pages: 77-78, Published: JAN 2008. ISSN: 15376494. DOI: 10.1080/15376490600929944. Codice Scopus: 2-s2.0-34250208106; codice ISI Web of Science: WOS:000247933300003.

[A17] D. Bruno - F. Greco – P. Lonetti: Dynamic impact analysis of long span cable-stayed bridges under moving loads. *Engineering Structures*, Vol. 30, Issue 4, pp.1160-1177, 2008. ISSN: 01410296. DOI: 10.1016/j.engstruct.2007.07.001. Codice Scopus 2-s2.0-40249098701. Codice ISI Web of Science WOS:000255045100024.

[A18] D. Bruno - F. Greco – P. Lonetti: A parametric study on the dynamic behavior of combined cable-stayed and suspension bridges under moving loads. *International Journal for Computational Methods in Engineering Science and Mechanics*, 10(4):243-258, 2009. ISSN: 15502287. DOI: 10.1080/15502280902939452. Codice Scopus: 2-s2.0-70349534311.

[A19] D. Bruno - F. Greco – P. Lonetti: Interaction between interlaminar and intralaminar damage in fiber-reinforced composite laminates. *Journal of Computational Methods in Engineering Science and Mechanics*, 9, Issue 6, pp. 358-373, 2008. ISSN: 15502287. DOI: 10.1080/15502280802365824. Codice Scopus: 2-s2.0-53349091894.

[A20] D. Bruno - F. Greco - P. Lonetti - P. Nevone Blasi: Influence of micro-cracking and contact on the effective properties of composite materials. *Simulation Modelling Practice and Theory*, Vol.16, issue 8, pp. 861-884, 2008. ISSN: 1569190X. DOI: 10.1016/j.simpat.2008.05.006. Codice Scopus: 2-s2.0-49549090663; Codice ISI Web of Science: WOS:000259587300002.

[A21] D. Bruno - F. Greco - P. Lonetti: Dynamic mode I and mode II crack propagation in fiber reinforced composites. *Mechanics of Advanced Materials and Structures*, 16:442-455, 2009. ISSN: 15376494. DOI: 10.1080/15376490902781183. Codice Scopus: 2-s2.0-67349114721; Codice ISI Web of Science: WOS:000268193900003.

[A22] F. Greco: Homogenized mechanical behavior of composite micro-structures including micro-cracking and contact evolution. *Engineering Fracture Mechanics*, Vol. 76 (2), pp.182-208, 2009. ISSN: 00137944. DOI: 10.1016/j.engfracmech.2008.09.006. Codice Scopus: WOS:000268193900003; Codice ISI Web of Science: WOS:000263020500002.

[A23] F. Greco - P. Lonetti: Mixed mode dynamic delamination in fiber reinforced composites. *Composites Part B: Engineering*, 40, 379-392, 2009. ISSN: 13598368. DOI: 10.1016/j.compositesb.2009.03.003. Codice Scopus: 2-s2.0-67349250168; Codice ISI Web of Science: WOS:000266849700003.

[A24] D. Bruno - F. Greco - P. Lonetti: An Interface-Multilayer Model for Delamination and Contact Analysis in Composite Plates. *Journal of the Mechanical Behaviour of Materials*, Vol. 19, Nos.2-3, 177-185, 2009. ISSN 0334-8938.

[A25] D. Bruno - F. Greco - P. Lonetti – P. Nevone Blasi – G. Sgambitterra: An investigation on microscopic and macroscopic stability phenomena of composite solids with periodic microstructures. *International Journal of Solids and Structures*, Vol. 47, 2806-2824, 2010. ISSN: 00207683. DOI: 10.1016/j.ijsolstr.2010.06.013 Codice Scopus: 2-s2.0-77955472757; Codice ISI Web of Science: WOS:000281175800018.

[A26] Bruno D., Greco F., Lonetti P., Nevone Blasi P., Homogenized response of composite materials subjected to mixed mode loading conditions, *Acta Mechanica Solida Sinica*, 2010, vol. 23, pp. 272-281. ISSN 0894-9166.

[A27] Bruno D., Greco F., Grimaldi A., Luciano R., Microscopic and macroscopic instabilities of periodic composite solids, *Acta Mechanica Solida Sinica*, 2010, vol. 23, pp. 261-271. ISSN 0894-9166.

- [A28] F. Greco – R. Luciano: A theoretical and numerical stability analysis for composite microstructures by using homogenization theory. *Composites: Part B*, 42(3): 382-401, 2011. ISSN: 13598368. DOI: 10.1016/j.compositesb.2010.12.006. Codice Scopus: 2-s2.0-79951555558; Codice ISI Web of Science: WOS:000287901100006.
- [A29] D. Bruno - F. Greco –P. Lonetti: A dynamic model to predict crack propagation in z-pinned composite structures. *Annals of Solids and Structural Mechanics*, 2 (2-4):143-157, 2011. ISSN: 18676936. DOI: 10.1007/s12356-011-0024-6. Codice Scopus: 2-s2.0-81555215174.
- [A30] F. Greco – L. Leonetti – P. Nevone Blasi: Non-linear macroscopic response of fiber-reinforced composite materials due to initiation and propagation of interface cracks. *Engineering Fracture Mechanics*, 80, 92-113, 2012. ISSN: 00137944. DOI: 10.1016/j.engfracmech.2011.10.003. Codice Scopus: 2-s2.0-84856331908; Codice ISI Web of Science: WOS:000301630300008.
- [A31] Greco F., Sgambitterra G., Validation of Homogenization Techniques for Locally Periodic Fiber-reinforced Composites with Interfacial Debonding, *Mechanics of Advanced Materials and Structures*, Vol. 20 (8), 2013, pp. 638-651. DOI: 10.1080/15376494.2011.643283. Codice Scopus: 2-s2.0-84877943818. Codice ISI Web of Science: WOS:000318776900004.
- [A32] F. Greco, P. Lonetti, A. Pascuzzo, Dynamic analysis of cable-stayed bridges affected by accidental failure mechanisms under moving loads, *Mathematical Problems in Engineering*, Volume 2013, Article ID 302706, 20 pages. DOI: 10.1155/2013/302706. Codice Scopus: 2-s2.0-84874186774; Codice ISI Web of Science: WOS:000315261400001.
- [A33] F. Greco: A study of stability and bifurcation in micro-cracked periodic elastic composites including self-contact. *International Journal of Solids and Structures*, 50, 1646-1663, 2013. DOI 10.1016/j.ijsolstr.2013.01.036. Codice Scopus: 2-s2.0-84875439603; Codice ISI Web of Science: WOS:000317711100012.
- [A34] F. Greco, L. Leonetti, P. Lonetti, A two-scale failure analysis of composite materials in presence of fiber/matrix crack initiation and propagation. *Composite Structures* 95 (2013) 582–597. DOI: 10.1016/j.compstruct.2012.08.035. Codice Scopus: 2-s2.0-84868122030. Codice ISI Web of Science: WOS:000311859400062.
- [A35] D. Bruno, F. Greco, P. Lonetti, A fracture-ALE formulation to predict dynamic debonding in FRP strengthened concrete beams. *Composites: Part B*, 46, pp. 46-60, 2013, DOI: 10.1016/j.compositesb.2012.10.015. Codice Scopus: 2-s2.0-84872359918; Codice ISI Web of Science: WOS:000314204100007.
- [A36] D. Bruno, F. Greco, P. Nevone Blasi, E. Bianchi. A 3D nonlinear static analysis of long-span cable stayed bridges. *Annals of Solid and Structural Mechanics*, Volume 5, Issue 1-2, pp. 15-34, December 2013. DOI 10.1007/s12356-013-0033-8. Codice Scopus: 2-s2.0-84892440940.
- [A37] D. Bruno, F. Greco, R. Luciano, P. Nevone Blasi, Non linear homogenized properties of defected composite materials. *Computers & Structures*, 2014, vol. 134, pp-102-111, DOI: 10.1016/j.compstruc.2013.11.018. Codice Scopus: 2-s2.0-84893774336. Codice ISI Web of Science WOS:000331676500008.
- [A38] D. Bruno – F. Greco – L. Leonetti, P. Nevone Blasi, Prediction of microscopic interface crack onset in fiber-reinforced composites by using a multi-scale homogenization procedure. *Advanced Materials Research* ISSN: 1662-8985 Vols. 875-877- Main Theme: Material Research and Applications- (2014) pp 1032-1036. doi: 10.4028/www.scientific.net/AMR.875-877. Chapter 4: Methodology of Manufacturing Analysis and Modelling. Edited by Duanling Li, Dawei Zheng and Jun Shi. Articolo indicizzato da Scopus come Article Codice Scopus: 2-s2.0-84896311553. Articolo indicizzato da Web of Science come Proceedings Paper codice ISI Web of Science WOS:000339412000188.
- [A39] F. Greco, L. Leonetti, P. Nevone Blasi. Adaptive multiscale modeling of fiber-reinforced composite materials subjected to transverse microcracking. *Composite Structures*, 113(1), 249-263, 2014. DOI: 10.1016/j.compstruct.2014.03.025. Codice Scopus: 2-s2.0-84900868538. Codice ISI Web of Science WOS:000337198500025.
- [A40] D. Bruno, F. Greco, P. Lonetti, Static and dynamic nonlinear modelling of long-span cable-stayed bridges, *International Journal of Bridge Engineering*, Issue, Vol. 1, No.1, pp.3-27, 2013.

[A41] F. Greco, L. Leonetti, P. Lonetti, P. Nevone Blasi. Crack propagation analysis in composite materials by using moving mesh and multiscale techniques. *Computers & Structures*, 153 (2015) 201-216. DOI: 10.1016/j.compstruc.2015.03.002. Codice Scopus 2-s2.0-84936014445. Codice ISI Web of Science WOS:000354579900014

[A42] F. Greco, L. Leonetti, R. Luciano. A multiscale model for the numerical simulation of the anchor bolt pull-out test in lightweight aggregate concrete. *Construction and Building Materials*, (2015), Volume 95, 3 August 2015, Article number 6986, Pages 860-874. DOI: 10.1016/j.conbuildmat.2015.07.170. Codice Scopus: 2-s2.0-84938323085. Codice ISI Web of Science: 000360417000085.

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