#### CV of Paolo S. VALVO

(updated: 7 March 2025)

## **GENERAL INFORMATION**

## Researcher unique identifiers

ORCID ID: <u>0000-0001-6439-1926</u> Scopus Author ID: 7801598909

Web of Science (WoS) ResearcherID: H-7862-2013

Google Scholar User: FzsByMOAAAAJ

#### **Bibliometric indices**

Documents: 61 (Scopus), 49 (Web of Science), 146 (Google Scholar)
Citations: 807 (Scopus), 716 (Web of Science), 1152 (Google Scholar)
H-index: 16 (Scopus), 15 (Web of Science), 20 (Google Scholar)

#### **Current work address**

University of Pisa – Department of Civil and Industrial Engineering Largo Lucio Lazzarino – IT-56122 PISA (PI) – Italy

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#### **EDUCATIONAL BACKGROUND**

## **Educational qualifications**

2015 Test in Danish Language (PD3 – Level B2)

CLAVIS - Sprog & kompetence, Roskilde, Denmark

2001 PhD in Structural Engineering

University of Florence, Italy

1996 Summa cum laude MSc in Civil Engineering (specialising in Structures)

University of Pisa, Italy

1990 Secondary school diploma with full marks

Liceo Classico Statale "A. Di Rudini", Noto, Italy

#### **Professional qualifications**

2023	Italian National Scientific Qualification as Full Professor
2017	Italian National Scientific Qualification as Associate Professor
1997	Qualification as a Professional Engineer, University of Pisa, Italy

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# WORK EXPERIENCE

# **Current position**

2017 – present Associate Professor of Structural Mechanics

Department of Civil and Industrial Engineering, University of Pisa, Italy

# **Past positions**

2021 – 2023	Visiting Professor, Department of Mechanical Engineering, Lublin University of Technology,
	Poland
2009 – 2017	Assistant Professor of Structural Mechanics
	Department of Civil and Industrial Engineering, University of Pisa, Italy
2006 – 2008	Fixed-term Researcher in Structural Mechanics
	Department of Structural Engineering, University of Pisa, Italy
2002 – 2006	Structural Engineer
	AICE Consulting Srl, Pisa, Italy
2001 – 2002	Civil Engineer
	Cultural Heritage Superintendence Office, Florence, Italy
1998	National Youth Service
	Cultural Heritage Superintendence Office, Pisa, Italy
1997 – 1998	Structural Engineer
	AICE Consulting Srl, Pisa, Italy

# Visiting periods abroad

0.	
2022	Visiting Professor, invited by Prof. Sylwester SAMBORSKI
	Faculty of Mechanical Engineering, Lublin University of Technology, Poland
	29 May – 5 June 2022
2019	Visiting Scientist, invited by Prof. Barbara SUROWSKA
	Department of Materials Engineering, Lublin University of Technology, Poland
	16 – 29 June 2019
2018	Visiting Scientist, invited by Prof. Sylwester SAMBORSKI
	Department of Applied Mechanics, Lublin University of Technology, Poland
	11 – 15 June 2018
2015	Visiting Scientist, invited by Dr. Bo MADSEN
	DTU Wind Energy, Technical University of Denmark, Roskilde, Denmark
	15 – 19 June 2015
2014 – 2015	Guest Scientist, invited by Prof. Bent F. SØRENSEN
	DTU Wind Energy, Technical University of Denmark, Roskilde, Denmark
	1 September 2014 – 28 February 2015

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### Teaching courses held at the University of Pisa, Italy

2020/2021 – present *Computational Mechanics of Materials* (48 hours), MSc in *Materials and Nanotechnology* 

2016/2017 – present Computational Mechanics (60 hours), MSc in Civil Engineering

2016/2017 – present Structural Mechanics (co-teacher for 60 hours), BSc in Aerospace Engineering

2010/2011 – 2015/2016 Structural Dynamics (60 hours), MSc in Civil Engineering 2013/2014 and 2015/2016 Structural Mechanics II (60 hours), BSc in Civil Engineering

2012/2013 Structural Mechanics I (60 hours), BSc in Civil Engineering

2009/2010 Analytical and Continuum Mechanics (60 hours), MSc in Nuclear Engineering

2004/2005 Laboratory of CAD Applications (24 hours), MSc in Building Engineering – Architecture

2001 – 2012 Structural Mechanics (class exercises), Various BSc and MSc programmes

#### Teaching courses held at Lublin University of Technology, Poland

2021/2022 and 2022/2023 Nonlinear Finite Element Analysis (30 hours), Visiting Professor
2021/2022 and 2022/2023 Computational Fracture Mechanics (30 hours), Visiting Professor
2021/2022 Finite Element Methods for Nonlinear Elasticity (10 hours), International PhD Mechanics,
Invited Speaker

#### Thesis supervision

2002 – present No. 6 PhD students, No. 48 MSc students, No. 39 BSc students

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#### **Research interests**

Mechanics of Materials, Solids, and Structures, with focus on problems involving Fracture Mechanics, Composite and Advanced Materials, Stability and Dynamics of Structures, Computational Mechanics, and Structural Strengthening

### Participation in funded research programmes

2023 - 2025Member of the University of Pisa Research Group of the project "NUmerical modelling and opTimisation of SHELL Structures Against Fracture and Fatigue with Experimental Validations (NutShell)", co-financed by the Italian Ministry of University and Research under PRIN 2022 programme (Coordinator: Dr. Enrico SALVATI, University of Udine, Italy) 2022 - 2025Member of the Research Group at University of Pisa of National Centre 1 "HPC, Big Data, Quantum Computing" - Spoke 6 "Multiscale Modeling & Engineering Applications", financed by the European Union under the Italian National Recovery and Resilience Plan (NRRP) 2022 - 2024Member of the Research Group of the project "Advanced modelling of ultra-lightweight materials and structures", financed by the University of Pisa under PRA 2022-2023 programme (Coordinator: Prof. Roberto ALESSI, University of Pisa, Italy) 2022 - 2023Scientific Responsible of the University of Pisa Research Group of the project "DIACMEC – Damage Identification in Advanced Composite Materials with Elastic Couplings", funded by the Ministry of Foreign Affairs under the Executive Protocol "Canaletto" for Scientific and Technological Cooperation between Italy and Poland for the years 2022–2023 2018 - 2020Member of the Research Group of the project "Multi-scale modelling in structural engineering", financed by the University of Pisa under PRA 2018-2019 programme (Coordinator: Prof. Roberto PARONI, University of Pisa, Italy) 2015 - 2018Scientific Responsible of the University of Pisa Research Group of the project "SUREBridge – Sustainable Refurbishment of Existing Bridges", co-financed by the European Commission under FP7 through the ERA-NET Plus Infravation 2014 Call (Coordinator: Prof. Reza HAGHANI, Chalmers University of Technology, Gothenburg, Sweden) 2015 - 2016Member of the Research Group of the project "Development of an integrated methodology for the seismic risk assessment in urban centres", financed by the University of Pisa under PRA 2015 programme (Coordinator: Prof. Massimo LOSA, University of Pisa, Italy) 2011 - 2013Member of the Stakeholders Panel of the project "PANTURA - Flexible processes and improved technologies for urban infrastructure construction sites", co-financed by the European Commission under FP7 (Coordinator: Prof. Robert KLIGER, Chalmers University of Technology, Gothenburg, Sweden) 2010 - 2012Member of the University of Pisa Research Group of the project "A multiscale approach for modelling damage and degradation phenomena in light-weight civil constructions made of advanced composite materials", co-financed by the Italian Ministry of University and Research under PRIN 2008 programme (Coordinator: Prof. Franco MACERI, University of Rome, Italy) 2006 - 2008Member of the University of Pisa Research Group of the project "Structures made of microstructural materials. A challenge for modern civil engineering", co-financed by the Italian Ministry of University and Research under PRIN 2005 programme (Coordinator: Prof. Franco MACERI, University of Rome, Italy) 1997 Research assistant of the University of Pisa Research Group of the project "MONUMENTS – Characterization of mechanical properties and damage of natural building stones in historical

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George EXADAKTYLOS, Technical University of Crete, Greece)

monuments", co-financed by the European Commission under FP4 (Coordinator: Prof.

#### Participation in international conferences as presenting author

- EUROMECH Colloquium 642 International Colloquium on Multiscale and Multiphysics Modelling for Advanced and Sustainable Materials (Rome, Italy, 22–27 September 2024)
- SNP 2024 58<sup>th</sup> Meeting of the Society for Natural Philosophy (Aarhus, Denmark, 10–12 June 2024)
- WECM '24 3<sup>rd</sup> Workshop on Experimental and Computational Mechanics (Lublin, Poland, 27–28 May 2024)
- *IDCW 2023* 1<sup>st</sup> Interdisciplinary Doctoral Conference and Workshop (Lublin, Poland, 7–10 November 2023): Invited Speaker
- CMES 2022 7<sup>th</sup> International Conference of Computational Methods in Engineering Science (Zamość, Poland, 24–26 November 2022)
- WECM '22 1<sup>st</sup> Workshop on Experimental and Computational Mechanics (Lublin, Poland, 1 June 2022): Invited Speaker
- VECF1 1<sup>st</sup> Virtual European Conference on Fracture (29 June–1 July 2020)
- ESMC 2018 10<sup>th</sup> European Solid Mechanics Conference (Bologna, Italy, 2–6 July 2018).
- GACM-GIMC 2018 1<sup>st</sup> Joint GACM-GIMC workshop on "Common Research Interests in Computational Mechanics" (Udine, Italy, 28 February–1 March 2018)
- CAE 2017 33<sup>rd</sup> International CAE Conference and Exhibition (Vicenza, Italy, 6–7 November 2017)
- ECF 21 21<sup>st</sup> European Conference on Fracture (Catania, Italy, 20–24 June 2016)
- ICCM 20 20<sup>th</sup> International Conference on Composites Materials (Copenhagen, Denmark, 19–24 July 2015)
- ECF 20 20<sup>th</sup> European Conference on Fracture (Trondheim, Norway, 30 June–4 July 2014)
- CompTest 2013 6<sup>th</sup> International Conference on Composites Testing and Model Identification (Aalborg, Denmark, 22–24 April 2013)
- ECF 18 18<sup>th</sup> European Conference on Fracture (Dresden, Germany, 30 August–3 September 2010)
- ECF 17 17<sup>th</sup> European Conference on Fracture (Brno, Czech Republic, 2–5 September 2008)
- ECF 16 16<sup>th</sup> European Conference of Fracture (Alexandroupolis, Greece, 3–7 July 2006)
- ETDCM 8 8<sup>th</sup> Seminar on Experimental Techniques and Design in Composite Materials (Cagliari, Italy, 2–7 October 2007)
- WCCM V 5<sup>th</sup> World Congress on Computational Mechanics (Vienna, Austria, 7–12 July 2002)
- ETDCM 5 5<sup>th</sup> Seminar on Experimental Techniques and Design in Composite Materials (Cagliari, Italy, 28–29 September 2000)
- ICTAM 2000 20<sup>th</sup> International Congress of Theoretical and Applied Mechanics (Chicago, Illinois, 27 August–2 September 2000)
- IASS-IACM2000 4<sup>th</sup> International Colloquium on Computation of Shell and Spatial Structures (Chania, Greece, 4–7 June 2000)
- ECCM '99 1<sup>st</sup> European Conference on Computational Mechanics (Munich, Germany, 31 August–3 September 1999)

#### Participation in national (Italian) conferences as presenting author

- AIMETA 2024 XXVI Congresso Nazionale dell'Associazione Italiana di Meccanica Teorica e Applicata (Napoli, 2–6 settembre 2024)
- GIMC-GMA-GBMA 2023 23<sup>rd</sup> Italian Conference on Computational Mechanics 10<sup>th</sup> Conference of the Group of Mechanics of Materials 2<sup>nd</sup> Conference of the Biomechanics Group (Reggio di Calabria, Italy, 12–14 July 2023)
- AIMETA 2019 24<sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics (Rome, Italy, 15–19 September 2019)
- AIMETA 2017 23<sup>rd</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics (Salerno, Italy, 4–7 September 2017)
- GIMC-GMA 2016 21<sup>st</sup> Italian Conference on Computational Mechanics and 8<sup>th</sup> Meeting of the AIMETA Materials Group (Lucca, Italy, 27–29 June 2016)
- AIMETA 2015 22<sup>nd</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics (Genoa, Italy, 14–17 September 2015)

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AIMETA 2013	21st National Congress of the Italian Association of Theoretical and Applied Machanics (Turin
AllVIETA 2015	21 <sup>st</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics (Turin, Italy, 17–20 September 2013)
GMA 2012	6 <sup>th</sup> Meeting of the AIMETA Materials Group (Lucca, Italy, 12–13 April 2012)
AIMETA 2011	20 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics (Bologna, Italy, 12–15 September 2011)
IGF 2011	21st National Congress of the Italian Group of Fracture (Cassino, Italy, 13–15 June 2011)
AIMETA 2009	19 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics
	(Ancona, Italy, 14–17 September 2009)
GMA08	2 <sup>nd</sup> Meeting of the AIMETA Materials Group (Genoa, Italy, 29 February–1 March 2008)
AIMETA 2007	18 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics
	(Brescia, Italy, 11–14 September 2007)
GMA07	1st Meeting of the AIMETA Materials Group (Trento, Italy, 23–24 February 2007)
AIPnD 2005	11 <sup>th</sup> National Conference of the Italian Association for Non-Destructive Testing, Monitoring,
	and Diagnostics (Milan, Italy, 13–15 October 2005)
AIMETA 2005	17 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics
	(Florence, Italy, 11–15 September 2005)
AIMETA '03	16 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics
	(Ferrara, Italy, 9–12 September 2003)
AIMETA '01	15 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics
	(Taormina, Italy, 26–29 September 2001)
AIMETA '99	14 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics (Como,
	Italy, 6–9 October 1999)
AIMETA '97	13 <sup>th</sup> National Congress of the Italian Association of Theoretical and Applied Mechanics (Siena,
	Italy, 29 September–3 October 1997)

# Organisation of scientific meetings

2024	Member of the Scientific Committee of CMES 2024 – IX International Conference of
	Computational Methods in Engineering Science (Sandomierz, Poland, 27–29 November 2024)
2024	Chairman of WECM '24 – 3rd Workshop on Experimental and Computational Mechanics +
	PhDsF24 – PhD students Forum (Lublin, Poland, 27–28 May 2024)
2024	Member of the Scientific Committee of ICCS27 – 27 <sup>th</sup> International Conference on Composite
	Structures (Ravenna, Italy, 3–6 September 2024)
2023	Member of the Scientific Committee of CMES 2023 - VIII International Conference of
	Computational Methods in Engineering Science (Puławy, Poland, 23–25 November 2023)
2023	Co-chairman of WECM '23 – 2 <sup>nd</sup> Workshop on Experimental and Computational Mechanics +
	DIACMEC Canaletto Project Final Meeting (Pisa, Italy, 20–22 September 2023)
2023	Co-organiser of the minisymposium "Detection, identification, and modeling of damage in
	advanced engineering materials" at PCM-CMM - 5th Polish Congress of Mechanics - 25th
	International Conference on Computer Methods in Mechanics (Gliwice, Poland, 4–7
	September 2023)
2022	Member of the Scientific Committee of CMES 2022 – VII International Conference of
	Computational Methods in Engineering Science (Zamość, Poland, 24–26 November 2022)
2022	Member of the Local Organizing Committee of SNP 2022 – 56th Meeting of the Society for
	Natural Philosophy (Pisa, Italy, 21–23 September 2022)
2022	Co-chairman of WECM '22 – 1st Workshop on Experimental and Computational Mechanics +
	DIACMEC Canaletto Project Kick-off Meeting (Lublin, Poland, 1 June 2022)
2022	Member of the Scientific Committee of MSN 2022 – 9 <sup>th</sup> International Scientific Symposium
	(Nałęczów, Poland, 1–3 June 2022)
2020	Member of the Volunteers Committee of $VECF1-1^{st}$ Virtual European Conference on Fracture
	(29 June–1 July 2020)
2017	Organiser of the public seminar on "The SUREBridge project for sustainable refurbishment of
	existing bridges" (Pisa, Italy, 22 September 2017)

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2017	Co-organiser of the specialised session "Mechanics and reliability of piezoelectric materials" at AIMETA 2017 – 23 <sup>rd</sup> National Congress of the Italian Association of Theoretical and Applied
	Mechanics (Salerno, Italy, 4–7 September 2017)
2016	Member of the Organising Committee of the GIMC-GMA 2016 – 21st Italian Conference on
	Computational Mechanics and 8 <sup>th</sup> Meeting of the AIMETA Materials Group (Lucca, Italy, 27–
	29 June 2016)
2016	Session Chairman at the ECF 21 – 21st European Conference on Fracture (Catania, Italy, 20–
	24 June 2016)
2013	Co-organiser of the mini-symposium "Advanced Beam Models for Homogeneous and Non-
	homogeneous structures" at AIMETA 2013 – 21st National Congress of the Italian Association
	of Theoretical and Applied Mechanics (Turin, Italy, 17–20 September 2013)
2008	Co-organiser of the Stand of the Department of Structural Engineering, University of Pisa,
	Italy, at CompoTec 2008 – 1 <sup>st</sup> International Exhibition of Composites and related Technologies
	(Marina di Carrara, Italy, 29–31 October 2008)

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### **Indexed** journals

9697-8

- [J.1] Ligarò S., Valvo, P. (1999): A self-adaptive strategy for uniformly accurate tracing of the equilibrium paths of elastic reticulated structures, *International Journal for Numerical Methods in Engineering*, **46** (6), 783–804. DOI: 10.1002/(SICI)1097-0207(19991030)46:6<783::AID-NME674>3.0.CO;2-G
- [J.2] Bennati S., Valvo P.S. (2002): An elastic interface model for delamination buckling in laminated plates, *Key Engineering Materials*, **221–222**, 293–306. DOI: <u>10.4028/www.scientific.net/KEM.221-222.293</u>
- [J.3] Bennati S., Valvo P.S. (2006): Delamination growth in composite plates under compressive fatigue loads, *Composites Science and Technology*, **66** (2), 248–254. DOI: <u>10.1016/j.compscitech.2005.04.035</u>
- [J.4] Ligarò S., Valvo P.S. (2006): Large displacement analysis of elastic pyramidal trusses, *International Journal of Solids and Structures*, **43** (16), 4867–7887. DOI: <u>10.1016/j.ijsolstr.2005.06.100</u>
- [J.5] Bennati S., Colleluori M., Corigliano D., Valvo P.S. (2009): An enhanced beam-theory model of the asymmetric double cantilever beam (ADCB) test for composite laminates, *Composites Science and Technology*, 69 (11–12), 1735–1745. DOI: 10.1016/j.compscitech.2009.01.019

   (2012): Erratum to "An enhanced beam-theory model of the asymmetric double cantilever beam (ADCB) test for composite laminates" [Compos Sci Technol 2009;69(11-12):1735-1745], *Composites Science and Technology*, 72 (14), 1791. DOI: 10.1016/j.compscitech.2012.07.013
- [J.6] Valvo P.S. (2012): A revised virtual crack closure technique for physically consistent fracture mode partitioning, *International Journal of Fracture*, **173** (1), 1–20. DOI: <u>10.1007/s10704-011-9658-y</u>
- [J.7] Bennati S., Dardano N., Valvo P.S. (2012): A mechanical model for FRP-strengthened beams in bending, *Frattura ed Integrità Strutturale*, **6** (22), 39–55. DOI: <u>10.3221/IGF-ESIS.22.06</u>
- [J.8] Bennati S., Fisicaro P., Valvo P.S. (2013): An enhanced beam-theory model of the mixed-mode bending (MMB) test Part I: literature review and mechanical model, *Meccanica*, 48 (2), 443–462.
   DOI: 10.1007/s11012-012-9686-3

   (2013): Erratum to: An enhanced beam-theory model of the mixed-mode bending (MMB) test Part I: literature review and mechanical model, *Meccanica*, 48 (2), 463. DOI: 10.1007/s11012-013
- [J.9] Bennati S., Fisicaro P., Valvo P.S. (2013): An enhanced beam-theory model of the mixed-mode bending (MMB) test Part II: applications and results, *Meccanica*, **48** (2), 465–484. DOI: 10.1007/s11012-012-9682-7
  - (2013): Erratum to: An enhanced beam-theory model of the mixed-mode bending (MMB) test Part II: applications and results, *Meccanica*, **48** (2), 485. DOI: <u>10.1007/s11012-013-9696-9</u>
- [J.10] Liu Z., Valvo P.S., Huang Y., Yin Z. (2013): Cohesive failure analysis of an array of IC chips bonded to a stretched substrate, *International Journal of Solids and Structures*, **50** (22–23), 3528–3538. DOI: 10.1016/j.ijsolstr.2013.06.021
- [J.11] Liu Z., Huang Y., Yin Z., Bennati S., Valvo P.S. (2014): A general solution for the stress analysis of balanced and unbalanced adhesively bonded joints, *International Journal of Adhesion and Adhesives*, **54**, 112–123. DOI: 10.1016/j.ijadhadh.2014.05.011
- [J.12] Valvo P.S. (2015): A further step towards a physically consistent virtual crack closure technique, International Journal of Fracture, 192 (2), 235–244. DOI: 10.1007/s10704-015-0007-4
- [J.13] Abedi M., Jafari-Talookolaei R.-A., Valvo P.S. (2016): A new solution method for free vibration analysis of rectangular laminated composite plates with general stacking sequences and edge restraints, *Computers & Structures*, **175**, 144–156. DOI: <u>10.1016/j.compstruc.2016.07.007</u>
- [J.14] Valvo P.S. (2016): On the calculation of energy release rate and mode mixity in delaminated laminated beams, *Engineering Fracture Mechanics*, **165**, 114–139. DOI: 10.1016/j.engfracmech.2016.08.010
- [J.15] Bennati S., Colonna D., Valvo P.S. (2016): Evaluation of the increased load bearing capacity of steel beams strengthened with pre-stressed FRP laminates, *Frattura ed Integrità Strutturale*, **10** (38), 377–391. DOI: 10.3221/IGF-ESIS.38.47
- [J.16] Valvo P.S. (2018): The effects of shear on Mode II delamination: a critical review, *Frattura ed Integrità Strutturale*, **12** (44), 123–139. DOI: <a href="mailto:10.3221/IGF-ESIS.44.10">10.3221/IGF-ESIS.44.10</a>

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- [J.17] Bertolini P., Eder M.A., Taglialegne L., Valvo P.S. (2019): Stresses in constant tapered beams with thin-walled rectangular and circular cross sections, *Thin-Walled Structures*, **137**, 527–540. DOI: 10.1016/j.tws.2019.01.008
- [J.18] Alocci C., Valvo P.S. (2019): Feasibility study of a hybrid FRP-steel cable-stayed pedestrian swing bridge, *Engineering Structures*, **189**, 359–372. DOI: 10.1016/j.engstruct.2019.03.087
- [J.19] Bennati S., Fisicaro P., Taglialegne L., Valvo P.S. (2019): An elastic-interface model for the delamination of bending-extension coupled laminates, *Applied Sciences*, **9** (17), 3560:1–28. DOI: 10.3390/app9173560
  - (2020): Correction: Bennati et al. An elastic interface model for the delamination of bending-extension coupled laminates. App. Sci. 2019, 9, 3560, *Applied Sciences*, **10** (5), 1711:1–2. DOI: 10.3390/app10051711
- [J.20] Dadej K., Bieniaś J., Valvo P.S. (2020): Experimental Testing and Analytical Modeling of Asymmetric End-Notched Flexure Tests on Glass-Fiber Metal Laminates, *Metals*, **10** (1), 56:1–17. DOI: 10.3390/met10010056
- [J.21] Rzeczkowski J., Samborski S., Valvo P.S. (2020): Effect of stiffness matrices terms on delamination front shape in laminates with elastic couplings, *Composite Structures*, **233**, 111547:1–9. DOI: 10.1016/j.compstruct.2019.111547
- [J.22] Dadej K., Valvo P.S., Bieniaś J. (2020): The Effect of Transverse Shear in Symmetric and Asymmetric End Notch Flexure Tests Analytical and Numerical Modeling, *Materials*, **13** (14), 3046:1–26. DOI: 10.3390/ma13143046
- [J.23] Ramian A., Jafari-Talookolaei R.-A., Valvo P.S., Abedi M. (2020): Free vibration analysis of sandwich plates with compressible core in contact with fluid, *Thin-Walled Structures*, **157**, 107088:1–18. DOI: 10.1016/j.tws.2020.107088
- [J.24] Valvo P.S. (2020): A Bimodal Lognormal Distribution Model for the Prediction of COVID-19 Deaths, *Applied Sciences*, **10**(23), 8500:1–24. DOI: <a href="mailto:10.3390/app10238500">10.3390/app10238500</a>
- [J.25] Farsani S.R., Jafari-Talookolaei R.-A., Valvo P.S., Goudarzi A.M. (2021): Free vibration analysis of functionally graded porous plates in contact with bounded fluid, *Ocean Engineering*, **219**, 108285, 1–18. DOI: 10.1016/j.oceaneng.108285
- [J.26] Ramian A., Jafari-Talookolaei R.-A., Valvo P.S., Abedi M. (2021): Free vibration analysis of a laminated composite sandwich plate with compressible core placed at the bottom of a tank filled with fluid, *Structures*, **29**, 1259–1273. DOI: 10.1016/j.istruc.2020.11.067
- [J.27] Farsani S.R., Ramian A., Jafari-Talookolaei R.-A., Valvo P.S., Abedi M. (2021): Free vibration analysis of rectangular sandwich plates with compressible core and various boundary conditions, *Journal of Sandwich Structures and Materials*, **23** (8), 4077–4106. DOI: 10.1177/1099636220979276
- [J.28] Ramian A., Jafari-Talookolaei R.-A., Valvo P.S., Abedi M. (2022): Fluid-structure-soil interaction effects on the free vibrations of functionally graded sandwich plates, *Engineering with Computers*, **38** (Suppl. 3), S1901–S1921. DOI: 10.1007/s00366-021-01348-0
- [J.29] Mobaraki H.A., Jafari-Talookolaei R.-A., Valvo P.S., Haghani R. (2022): Dynamic analysis of a laminated composite plate coupled with a piezoelectric energy harvester and traversed by a moving vehicle, *Mechanics of Advanced Materials and Structures*, **29** (27), 6835–3853. DOI: 10.1080/15376494.2021.1986182
- [J.30] Mobaraki H.A., Jafari-Talookolaei R.-A., Valvo P.S., Haghani R. (2022): Forced Vibration Analysis of Laminated Composite Plates under the Action of a Moving Vehicle, Frattura ed Integrità Strutturale, 16 (59), 15:198–211. DOI: 10.3221/IGF-ESIS.59.15
- [J.31] Jafari-Talookolaei R.-A., Attar M., Valvo P.S., Lotfinejad-Jalali F., Ghasemi Shirsavar S.F., Saadatmorad M. (2022): Flapwise and Chordwise Free Vibration Analysis of a Rotating Laminated Composite Beam, *Composite Structures*, **292**, 115694:1–17. DOI: 10.1016/j.compstruct.2022.115694
- [J.32] Falkowicz K., Samborski S., Valvo P.S. (2022): Effects of Elastic Couplings in a Compressed Plate Element with Cut-Out, *Materials*, **15** (21), 7752:1–14. DOI: 10.3390/ma15217752
- [J.33] Valvo P.S. (2022): Derivation of symmetric secant stiffness matrices for nonlinear finite element analysis, *Advances in Science and Technology Research Journal*, **16** (6), 118–125. DOI: 10.12913/22998624/155942

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