Giuseppe Failla

List of Publications by Year in descending order

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CHISEDDE FAILLA

#	Article	IF	CITATIONS
1	Evolutionary Spectra Estimation Using Wavelets. Journal of Engineering Mechanics - ASCE, 2004, 130, 952-960.	1.6	137
2	Physically-Based Approach to the Mechanics ofÂStrongÂNon-Local Linear Elasticity Theory. Journal of Elasticity, 2009, 97, 103-130.	0.9	116
3	Stationary and non-stationary stochastic response of linear fractional viscoelastic systems. Probabilistic Engineering Mechanics, 2012, 28, 85-90.	1.3	81
4	Advanced materials modelling via fractional calculus: challenges and perspectives. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200050.	1.6	65
5	Vibration mitigation in offshore wind turbines via tuned mass damper. Engineering Structures, 2019, 183, 610-636.	2.6	64
6	The mechanically based non-local elasticity: an overview of main results and future challenges. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120433.	1.6	60
7	On the stochastic response of a fractionally-damped Duffing oscillator. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 5131-5142.	1.7	56
8	The mechanically-based approach to 3D non-local linear elasticity theory: Long-range central interactions. International Journal of Solids and Structures, 2010, 47, 2347-2358.	1.3	55
9	Time-domain uncoupled analyses for seismic assessment of land-based wind turbines. Engineering Structures, 2016, 123, 275-299.	2.6	51
10	Seismic analysis of offshore wind turbines on bottom-fixed support structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140086.	1.6	47
11	Damage detection in Euler–Bernoulli beams via spatial wavelet analysis. Structural Control and Health Monitoring, 2006, 13, 472-487.	1.9	42
12	On Euler–Bernoulli discontinuous beam solutions via uniform-beam Green's functions. International Journal of Solids and Structures, 2007, 44, 7666-7687.	1.3	42
13	An exact generalised function approach to frequency response analysis of beams and plane frames with the inclusion of viscoelastic damping. Journal of Sound and Vibration, 2016, 360, 171-202.	2.1	42
14	Finite-Element Formulation of a Nonlocal Hereditary Fractional-Order Timoshenko Beam. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	41
15	Improved inerter-based vibration absorbers. International Journal of Mechanical Sciences, 2021, 192, 106087.	3.6	40
16	Closed-form solutions for Euler–Bernoulli arbitrary discontinuous beams. Archive of Applied Mechanics, 2011, 81, 605-628.	1.2	37
17	On the dynamics of non-local fractional viscoelastic beams under stochastic agencies. Composites Part B: Engineering, 2018, 137, 102-110.	5.9	36
18	Finite element method for a nonlocal Timoshenko beam model. Finite Elements in Analysis and Design, 2014, 89, 77-92.	1.7	34

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19	On the dynamics of nano-frames. International Journal of Engineering Science, 2021, 160, 103433.	2.7	30
20	Non-local stiffness and damping models for shear-deformable beams. European Journal of Mechanics, A/Solids, 2013, 40, 69-83.	2.1	29
21	New perspectives in offshore wind energy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140228.	1.6	28
22	Analysis of the coupled dynamic response of an offshore floating multi-purpose platform for the Blue Economy. Ocean Engineering, 2020, 217, 107943.	1.9	28
23	Exact frequency response analysis of axially loaded beams with viscoelastic dampers. International Journal of Mechanical Sciences, 2016, 115-116, 370-384.	3.6	25
24	An exact approach to the dynamics of locally-resonant beams. Mechanics Research Communications, 2020, 103, 103460.	1.0	25
25	A novel approach to nonlinear variable-order fractional viscoelasticity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190296.	1.6	25
26	A Galerkin Approach for Power Spectrum Determination of Nonlinear Oscillators. Meccanica, 2002, 37, 51-65.	1.2	24
27	A solution method for Euler–Bernoulli vibrating discontinuous beams. Mechanics Research Communications, 2008, 35, 517-529.	1.0	24
28	Solution strategies for 1D elastic continuum with long-range interactions: Smooth and fractional decay. Mechanics Research Communications, 2010, 37, 13-21.	1.0	24
29	A non-local two-dimensional foundation model. Archive of Applied Mechanics, 2013, 83, 253-272.	1.2	24
30	Seismic vulnerability evaluation of historical masonry churches: Proposal for a general and comprehensive numerical approach to cross-check results. Engineering Failure Analysis, 2017, 82, 208-228.	1.8	24
31	On the moving load problem in Euler–Bernoulli uniform beams with viscoelastic supports and joints. Acta Mechanica, 2017, 228, 805-821.	1.1	23
32	A mechanically based approach to non-local beam theories. International Journal of Mechanical Sciences, 2011, 53, 676-687.	3.6	22
33	Flexural vibrations of discontinuous layered elastically bonded beams. Composites Part B: Engineering, 2018, 135, 175-188.	5.9	21
34	On intermediate-scale open-sea experiments on floating offshore structures: Feasibility and application on a spar support for offshore wind turbines. Marine Structures, 2018, 61, 220-237.	1.6	20
35	On the moving load problem in beam structures equipped with tuned mass dampers. Meccanica, 2017, 52, 3101-3115.	1.2	19
36	On time-domain uncoupled analyses for offshore wind turbines under seismic loads. Bulletin of Earthquake Engineering, 2018, 16, 1007-1040.	2.3	19

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37	A wavelet-based spectrum for non-stationary processes. Mechanics Research Communications, 2011, 38, 361-367.	1.0	18
38	An exact modal analysis approach to vibration analysis of structures with mass-spring subsystems and rotational joints. Journal of Sound and Vibration, 2019, 438, 191-219.	2.1	18
39	On the fatigue behavior of support structures for offshore wind turbines. Wind and Structures, an International Journal, 2014, 18, 117-134.	0.8	18
40	Wave propagation in stress-driven nonlocal Rayleigh beam lattices. International Journal of Mechanical Sciences, 2022, 215, 106901.	3.6	18
41	Progress on the experimental set-up for the testing of a floating offshore wind turbine scaled model in a field site. Wind Engineering, 2016, 40, 455-467.	1.1	17
42	Flexural wave propagation in locally-resonant beams with uncoupled/coupled bending-torsion beam-like resonators. International Journal of Mechanical Sciences, 2022, 215, 106925.	3.6	17
43	Interval static analysis of multi-cracked beams with uncertain size and position of cracks. Applied Mathematical Modelling, 2020, 86, 92-114.	2.2	16
44	Operational Modal Analysis of a Spar-Type Floating Platform Using Frequency Domain Decomposition Method. Energies, 2016, 9, 870.	1.6	15
45	Free and forced vibrations of damped locally-resonant sandwich beams. European Journal of Mechanics, A/Solids, 2021, 86, 104188.	2.1	15
46	Some properties of multi-degree-of-freedom potential systems and application to statistical equivalent non-linearization. International Journal of Non-Linear Mechanics, 2003, 38, 405-421.	1.4	14
47	A correction method for dynamic analysis of linear systems. Computers and Structures, 2004, 82, 1217-1226.	2.4	14
48	Stochastic response of linear and non-linear systems to α-stable Lévy white noises. Probabilistic Engineering Mechanics, 2005, 20, 128-135.	1.3	14
49	On the dynamics of viscoelastic discontinuous beams. Mechanics Research Communications, 2014, 60, 52-63.	1.0	14
50	Coupled bending–torsional frequency response of beams with attachments: exact solutions including warping effects. Acta Mechanica, 2018, 229, 2445-2475.	1.1	14
51	Spectral Approach to Equivalent Statistical Quadratization and Cubicization Methods for Nonlinear Oscillators. Journal of Engineering Mechanics - ASCE, 2003, 129, 31-42.	1.6	13
52	Coupled bending and torsional free vibrations of beams with in-span supports and attached masses. European Journal of Mechanics, A/Solids, 2017, 66, 387-411.	2.1	13
53	General finite element description for non-uniform and discontinuous beam elements. Archive of Applied Mechanics, 2012, 82, 43-67.	1.2	12
54	The finite element method for fractional non-local thermal energy transfer in non-homogeneous rigid conductors. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 116-127.	1.7	12

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55	Stochastic Analysis of a Nonlocal Fractional Viscoelastic Bar Forced by Gaussian White Noise. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	0.7	12
56	Response-Spectrum Uncoupled Analyses for Seismic Assessment of Offshore Wind Turbines. Journal of Marine Science and Engineering, 2018, 6, 85.	1.2	12
57	Exact frequency response of two-node coupled bending-torsional beam element with attachments. Applied Mathematical Modelling, 2018, 63, 508-537.	2.2	12
58	Response Power Spectrum of Multi-Degree-of-Freedom Nonlinear Systems by a Galerkin Technique. Journal of Applied Mechanics, Transactions ASME, 2003, 70, 708-714.	1.1	11
59	Approximate Analytical Mean-Square Response of an Impacting Stochastic System Oscillator With Fractional Damping. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	0.7	11
60	Exact stochastic analysis of coupled bending–torsion beams with in-span supports and masses. Probabilistic Engineering Mechanics, 2018, 54, 53-64.	1.3	11
61	A Fractional Approach to Non-Newtonian Blood Rheology in Capillary Vessels. Journal of Peridynamics and Nonlocal Modeling, 2019, 1, 88-96.	1.4	11
62	Random vibration mitigation of beams via tuned mass dampers with spring inertia effects. Meccanica, 2019, 54, 1365-1383.	1.2	10
63	A two-degree-of-freedom tuned mass damper for offshore wind turbines on floating spar supports. Marine Structures, 2022, 83, 103146.	1.6	10
64	On the vibrations of a mechanically based non-local beam model. Computational Materials Science, 2012, 64, 278-282.	1.4	9
65	Complex modal analysis of rods with viscous damping devices. Journal of Sound and Vibration, 2014, 333, 2130-2163.	2.1	9
66	A new displacement-based framework for non-local Timoshenko beams. Meccanica, 2015, 50, 2103-2122.	1.2	9
67	Stationary Response of Beams and Frames with Fractional Dampers through Exact Frequency Response Functions. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	9
68	An original framework for triply-coupled bending-torsion dynamics of beams. Thin-Walled Structures, 2021, 159, 107317.	2.7	9
69	On the free vibrations of locally-resonant structures. Computers and Structures, 2020, 241, 106356.	2.4	8
70	An original perspective on variable-order fractional operators for viscoelastic materials. Meccanica, 2021, 56, 769-784.	1.2	8
71	A novel reduced-order dynamic-stiffness formulation for locally resonant metamaterial plates. Composite Structures, 2022, 280, 114811.	3.1	8
72	Mechanically Based Nonlocal Euler-Bernoulli Beam Model. Journal of Nanomechanics & Micromechanics, 2014, 4, .	1.4	7

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73	A Mellin transform approach to wavelet analysis. Communications in Nonlinear Science and Numerical Simulation, 2015, 28, 175-193.	1.7	7
74	Nonlinear Random Vibrations of Beams with In-Span Supports via Statistical Linearization with Constrained Modes. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	7
75	Dynamic Response Characterization of Floating Structures Based on Numerical Simulations. Energies, 2020, 13, 5670.	1.6	7
76	Ultra-wide low-frequency band gap in locally-resonant plates with tunable inerter-based resonators. Applied Mathematical Modelling, 2022, 106, 682-695.	2.2	7
77	An interval framework for uncertain frequency response of multi-cracked beams with application to vibration reduction via tuned mass dampers. Meccanica, 2021, 56, 923-952.	1.2	5
78	Stochastic response of a fractional vibroimpact system. Procedia Engineering, 2017, 199, 1086-1091.	1.2	4
79	Exact frequency response of bars with multiple dampers. Acta Mechanica, 2017, 228, 49-68.	1.1	4
80	Analysis of the Coupled Dynamics of an Offshore Floating Multi-Purpose Platform: Part A — Rigid Body Analysis. , 2019, , .		4
81	Analysis of the Coupled Dynamics of an Offshore Floating Multi-Purpose Platform: Part B — Hydro-Elastic Analysis With Flexible Support Platform. , 2019, , .		4
82	Stochastic Response of Offshore Structures by a New Approach to Statistical Cubicization. Journal of Offshore Mechanics and Arctic Engineering, 2002, 124, 6-13.	0.6	3
83	Fatigue Analysis of Offshore Wind Turbines on Fixed Support Structures. Key Engineering Materials, 0, 569-570, 539-546.	0.4	3
84	Output-only identification of rigid body motions of floating structures: a case study. Procedia Engineering, 2017, 199, 930-935.	1.2	3
85	Seismic uncoupled analyses for offshore wind turbines. IET Renewable Power Generation, 2017, 11, 1100-1112.	1.7	3
86	On the Free Vibrations of Non-Classically Damped Locally Resonant Metamaterial Plates. Nanomaterials, 2022, 12, 541.	1.9	3
87	An improved analog equation method for non-linear dynamic analysis of time-fractional beams with discontinuities. Meccanica, 2020, 55, 649-668.	1.2	2
88	Frequency analysis of beams with multiple dampers via exact generalized functions. Coupled Systems Mechanics, 2016, 5, 157-190.	0.4	2
89	New prospects in non-conventional modelling of solids and structures. Meccanica, 2022, 57, 751-755.	1.2	2
90	Fractional-Order Thermal Energy Transport for Small-Scale Engineering Devices. Journal of Nanomechanics & Micromechanics, 2014, 4, .	1.4	1

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91	On the moving multi-loads problem in discontinuous beam structures with interlayer slip. Procedia Engineering, 2017, 199, 2531-2536.	1.2	1
92	A Comparison Among Plastic Deformation Capacities of RC Members According to International Codes. AIP Conference Proceedings, 2008, , .	0.3	0
93	Two-Step Pushover Analysis of an Ancient Masonry Oil-Mill in the Southern Italy. Advanced Materials Research, 2010, 133-134, 361-366.	0.3	0
94	A novel statistical linearization solution for randomly excited coupled bending-torsional beams resting on non-linear supports. Meccanica, 2019, 54, 1307-1326.	1.2	0
95	A Novel Solution to Find the Dynamic Response of an Euler–Bernoulli Beam Fitted with Intraspan TMDs under Poisson Type Loading. Infrastructures, 2020, 5, 40.	1.4	0
96	Nonlocal Approaches to the Dynamics of Metamaterials. Springer Tracts in Mechanical Engineering, 2021, , 393-415.	0.1	0
97	Seismic Analysis of Wind Energy Converters. , 2014, , 1-19.		0
98	Seismic Analysis of Wind Energy Converters. , 2015, , 2675-2692.		0
99	COMPARATIVE SEISMIC ASSESSMENT OF A MEDIOEVAL MASONRY CHURCH IN SOUTHERN ITALY. , 2017, , .		0