

# Fernando Fraternali

## List of Publications by Year in descending order

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Version: 2024-02-01

185  
papers

6,806  
citations

44069

48  
h-index

69250

77  
g-index

193  
all docs

193  
docs citations

193  
times ranked

4965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel magnetic levitation systems for the vibration control of lightweight structures and artworks. Structural Control and Health Monitoring, 2022, 29, .	4.0	7
2	Multiscale Innovative Materials and Structures (MIMS). Nanomaterials, 2022, 12, 96.	4.1	0
3	Free and forced vibrations of damped locally-resonant sandwich beams. European Journal of Mechanics, A/Solids, 2021, 86, 104188.	3.7	15
4	Low velocity impact response of 3D printed structures formed by cellular metamaterials and stiffening plates: PLA vs. PETg. Composite Structures, 2021, 256, 113128.	5.8	41
5	Seismic and Thermal Retrofitting of Masonry Buildings with Fiber Reinforced Composite Systems: A State of the Art Review. International Journal of Structural Glass and Advanced Materials Research, 2021, 5, 41-67.	0.4	5
6	A DYNAMIC-STIFFNESS APPROACH FOR DAMPED LOCALLY-RESONANT TIMOSHENKO BEAMS. , 2021, , .		0
7	SEISMIC METAMATERIALS WITH TENSEGRITY ARCHITECTURE. , 2021, , .		0
8	MODELING AND DESIGN OF PERIODIC LATTICES WITH TENSEGRITY ARCHITECTURE AND HIGHLY NONLINEAR RESPONSE. , 2021, , .		2
9	Effect of prestress on phononic band gaps induced by inertial amplification. International Journal of Solids and Structures, 2021, 216, 156-166.	2.7	35
10	On process modelling of cold chamber die casting of Al alloy by using buckinghamâ€™s Î approach. Materials Today: Proceedings, 2021, 48, 1416-1416.	1.8	1
11	A MESOSCALE TENSEGRITY MODEL OF SPIDER DRAGLINE SILK FIBER. , 2021, , .		0
12	GEOMETRIC PATTERNS AND DYNAMICS OF FOLDABLE MODULI FOR ADAPTIVE FAÄADES. , 2021, , .		0
13	A biomimetic slidingâ€™stretching approach to seismic isolation. Nonlinear Dynamics, 2021, 106, 3147.	5.2	14
14	Investigating the evolution of landslides via dimensionless displacement trends. Mathematics and Mechanics of Complex Systems, 2021, 9, 231-272.	0.9	1
15	On a modified Beckerâ€™ring model for two-phase materials. Continuum Mechanics and Thermodynamics, 2020, 32, 901-912.	2.2	1
16	Meso-Scale Formulation of a Cracked-Hinge Model for Hybrid Fiber-Reinforced Cement Composites. Fibers, 2020, 8, 56.	4.0	11
17	On the Distribution in Height of Base Shear Forces in Linear Static Analysis of Base-Isolated Structures. Buildings, 2020, 10, 197.	3.1	4
18	Tensegrity Modelling and the High Toughness of Spider Dragline Silk. Nanomaterials, 2020, 10, 1510.	4.1	11

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19	Fast and Optimized Calculation of the Cable Pretension Forces in Arch Bridges With Suspended Deck. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	0
20	Mechanics of smart origami sunscreens with energy harvesting ability. <i>Mechanics Research Communications</i> , 2020, 105, 103503.	1.8	26
21	Design and Testing of Bistable Lattices with Tensegrity Architecture and Nanoscale Features Fabricated by Multiphoton Lithography. <i>Nanomaterials</i> , 2020, 10, 652.	4.1	22
22	Mechanical characterization of FDM filaments with PVDF matrix reinforced with Graphene and Barium Titanate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 999, 012010.	0.6	3
23	Mechanical response of tensegrity dissipative devices incorporating shape memory alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 999, 012001.	0.6	2
24	Mechanics of energy harvesters based on tensegrity solar facades. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 999, 012003.	0.6	1
25	A DISCRETE-TO-CONTINUUM APPROACH TO FREQUENCY BANGAPS IN 1D BIATOMIC METAMATERIALS. , 2020, , .		0
26	ON THE WAVE DYNAMICS OF MICROSCALE BISTABLE TENSEGRITY STRUCTURES. , 2020, , .		0
27	DYNAMICS OF TENSEGRITY SOLAR FAÇADES OPERATING AS MECHANICAL ENERGY HARVESTERS. , 2020, , .		0
28	INNOVATIVE DISSIPATIVE DEVICES WITH TENSEGRITY ARCHITECTURE AND SUPER ELASTIC BEHAVIOUR FOR THE SEISMIC PROTECTION OF STRUCTURES. , 2020, , .		0
29	INDUCING DISPERSION CURVES WITH NEGATIVE GROUP VELOCITY IN INERTIALLY AMPLIFIED PHONONIC CRYSTALS THROUGH THE APPLICATION OF AN EXTERNAL STATE OF PRESTRESS. , 2020, , .		5
30	On the additive manufacturing of an energy storage device from recycled material. <i>Composites Part B: Engineering</i> , 2019, 156, 259-265.	12.0	59
31	Lateral-Torsional Buckling of C-Beams with Varying Inertia. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 473, 012011.	0.6	0
32	Mechanical modeling of the bandgap response of tensegrity metamaterials. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
33	Nonlinear wave dynamics of tensegrity metamaterials. , 2019, , .		0
34	On the equilibrium problem and infinitesimal mechanisms of class theta tensegrity systems. , 2019, , .		0
35	Effective stiffness properties of multi-layered pentamode lattices in the stretching-dominated regime. , 2019, , .		2
36	Editorial: Multiscale Lattices and Composite Materials: Optimal Design, Modeling and Characterization. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	1

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37	Mechanical modeling of superelastic tensegrity braces for earthquake-proof structures. <i>Extreme Mechanics Letters</i> , 2019, 33, 100578.	4.1	17
38	On the compact wave dynamics of tensegrity beams in multiple dimensions. <i>Nonlinear Dynamics</i> , 2019, 98, 2737-2753.	5.2	15
39	Green Design of Novel Metal Matrix Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 473, 012008.	0.6	0
40	Staging and Pretensioning of Cable-Stayed Bridges. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 473, 012012.	0.6	0
41	Design, microstructure and mechanical characterization of Ti6Al4V reinforcing elements for cement composites with fractal architecture. <i>Materials and Design</i> , 2019, 172, 107758.	7.0	32
42	On the shape optimisation of the force networks of masonry structures. <i>International Journal of Masonry Research and Innovation</i> , 2019, 4, 78.	0.4	2
43	Graphene Reinforced Composites as Sensing Elements. <i>Key Engineering Materials</i> , 2019, 826, 33-44.	0.4	0
44	High-Performance Nylon-6 Sustainable Filaments for Additive Manufacturing. <i>Materials</i> , 2019, 12, 3955.	2.9	41
45	Metal matrix composite from recycled materials by using additive manufacturing assisted investment casting. <i>Composite Structures</i> , 2019, 207, 129-135.	5.8	44
46	Multi-Material Additive Manufacturing of Sustainable Innovative Materials and Structures. <i>Polymers</i> , 2019, 11, 62.	4.5	118
47	On the Kinematics and Actuation of Dynamic Sunscreens With Tensegrity Architecture. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	13
48	Sustainable construction materials based on recycled asbestos cement wastes. , 2019, , .		0
49	HARNESSING TENSEGRITY TO DESIGN TUNABLE METAMATERIALS FOR BROADBAND LOW-FREQUENCY WAVE ATTENUATION. , 2019, , .		0
50	ON THE COMPUTATIONAL DESIGN OF INNOVATIVE SEISMIC ISOLATION DEVICES BASED ON LATTICE MATERIALS. , 2019, , .		0
51	ON THE SOLITARY WAVE DYNAMICS OF TENSEGRITY LATTICES WITH STIFFENING RESPONSE: A NUMERICAL STUDY. , 2019, , .		0
52	COMPUTATIONAL MODELING OF THE DYNAMICS OF ACTIVE SUNSCREENS WITH TENSEGRITY ARCHITECTURE. , 2019, , .		0
53	COMPUTATIONAL PREDICTION OF THE STABILITY OF TENSEGRITY STRUCTURES. , 2019, , .		0
54	Design and optimization of pre-tension forces in cable-stayed bridges. , 2019, , 1051-1055.		0

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55	Design and control of adaptive tensegrity sunscreens. , 2019, , 1027-1032.		0
56	On the lateral-torsional buckling of non-uniform C-beams. , 2019, , 866-869.		0
57	Incremental auxetic response of composite lattices under isotropic prestress. Composite Structures, 2018, 191, 145-153.	5.8	24
58	Limit analysis of masonry structures with free discontinuities. Meccanica, 2018, 53, 1793-1802.	2.0	29
59	On the recyclability of polyamide for sustainable composite structures in civil engineering. Composite Structures, 2018, 184, 704-713.	5.8	95
60	Graphene as biomedical sensing element: State of art review and potential engineering applications. Composites Part B: Engineering, 2018, 134, 193-206.	12.0	113
61	Investigations for mechanical properties of Hap, PVC and PP based 3D porous structures obtained through biocompatible FDM filaments. Composites Part B: Engineering, 2018, 132, 237-243.	12.0	62
62	Physical-mechanical characterization of biodegradable Mg-3Si-HA composites. PSU Research Review, 2018, 2, 152-174.	2.4	14
63	Experimental and Numerical Study on the Lateral-Torsional Buckling of Steel C-Beams with Variable Cross-Section. Metals, 2018, 8, 941.	2.3	3
64	Tunable extremely wide low-frequency band gaps in accordion-like metamaterials. , 2018, , .		1
65	A Finite Element Analysis of the Stability of Composite Beams With Arbitrary Curvature. Frontiers in Built Environment, 2018, 4, .	2.3	1
66	Meta-tensegrity: Design of a tensegrity prism with metal rubber. Composite Structures, 2018, 206, 644-657.	5.8	27
67	Investigations for Development of Feed Stock Filament of Fused Deposition Modeling From Recycled Polyamide. , 2018, , .		3
68	Tensegrity cell mechanical metamaterial with metal rubber. Applied Physics Letters, 2018, 113, .	3.3	22
69	Numerical and Analytical Approaches to the Self-Equilibrium Problem of Class $\hat{I}^{\hat{I}}=1$ Tensegrity Metamaterials. Frontiers in Materials, 2018, 5, .	2.4	19
70	On the Geometrically Nonlinear Elastic Response of Class $\hat{I}^{\hat{I}}=1$ Tensegrity Prisms. Frontiers in Materials, 2018, 5, .	2.4	20
71	Accordion-like metamaterials with tunable ultra-wide low-frequency band gaps. New Journal of Physics, 2018, 20, 073051.	2.9	58
72	Tuning frequency band gaps of tensegrity mass-spring chains with local and global prestress. International Journal of Solids and Structures, 2018, 155, 47-56.	2.7	65

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73	Experimental Investigations for Development of Hybrid Feed Stock Filament of Fused Deposition Modeling. , 2018, , .		4
74	A minimal mass deployable structure for solar energy harvesting on water canals. Structural and Multidisciplinary Optimization, 2017, 55, 449-458.	3.5	24
75	Mechanical modeling of innovative metamaterials alternating pentamode lattices and confinement plates. Journal of the Mechanics and Physics of Solids, 2017, 99, 259-271.	4.8	72
76	Cohesive interface behaviour and local shear strains in axially loaded composite annular tubes. Composite Structures, 2017, 160, 1126-1135.	5.8	19
77	Dimensional accuracy analysis of coupled fused deposition modeling and vapour smoothing operations for biomedical applications. Composites Part B: Engineering, 2017, 117, 138-149.	12.0	119
78	Investigation for surface finish improvement of FDM parts by vapor smoothing process. Composites Part B: Engineering, 2017, 111, 228-234.	12.0	105
79	On the mechanics of tetrakis-like lattices in the stretch-dominated regime. Extreme Mechanics Letters, 2017, 15, 57-62.	4.1	3
80	Epoxy/glass fibres composites for civil applications: Comparison between thermal and microwave crosslinking routes. Composites Part B: Engineering, 2017, 126, 100-107.	12.0	37
81	On the wear properties of Nylon6-SiC-Al <sub>2</sub> O <sub>3</sub> based fused deposition modelling feed stock filament. Composites Part B: Engineering, 2017, 119, 125-131.	12.0	54
82	Size effect and dynamic properties of 2D lattice materials. Composites Part B: Engineering, 2017, 112, 235-242.	12.0	33
83	A multi-mode approach for multi-directional damage detection in frame structures. Engineering Structures, 2017, 147, 505-516.	5.3	4
84	Special issue on composite lattices and multiscale innovative materials and structures. Composites Part B: Engineering, 2017, 115, 1-2.	12.0	14
85	Non-linear elastic response of layered structures, alternating pentamode lattices and confinement plates. Composites Part B: Engineering, 2017, 115, 117-123.	12.0	48
86	Optimal prestress design of composite cable-stayed bridges. Composite Structures, 2017, 169, 167-172.	5.8	44
87	Composite solar façades and wind generators with tensegrity architecture. Composites Part B: Engineering, 2017, 115, 275-281.	12.0	40
88	On the minimal mass reinforcement of masonry structures with arbitrary shapes. Meccanica, 2017, 52, 1561-1576.	2.0	18
89	Recycling of plastic solid waste: A state of art review and future applications. Composites Part B: Engineering, 2017, 115, 409-422.	12.0	763
90	ACCURATE NUMERICAL METHODS FOR STUDYING THE NONLINEAR WAVE-DYNAMICS OF TENSEGRITY METAMATERIALS. , 2017, , .		4

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91	INNOVATIVE DEVICES FOR THE BASE ISOLATION OF EXISTING BUILDINGS. , 2017, , .		4
92	EXPERIMENTAL AND NUMERICAL STUDY OF WAVE DYNAMICS IN TENSEGRITY COLUMNS. , 2017, , .		1
93	INNOVATIVE STRUCTURES FOR DYNAMIC SOLAR FAÇADES. , 2017, , .		1
94	Friction welding of dissimilar plastic/polymer materials with metal powder reinforcement for engineering applications. Composites Part B: Engineering, 2016, 101, 77-86.	12.0	112
95	Development of in-house composite wire based feed stock filaments of fused deposition modelling for wear-resistant materials and structures. Composites Part B: Engineering, 2016, 98, 244-249.	12.0	103
96	Effect of single particle size, double particle size and triple particle size Al <sub>2</sub> O <sub>3</sub> in Nylon-6 matrix on mechanical properties of feed stock filament for FDM. Composites Part B: Engineering, 2016, 106, 20-27.	12.0	61
97	Thermal characterization of recycled polymer for additive manufacturing applications. Composites Part B: Engineering, 2016, 106, 42-47.	12.0	86
98	Bending dominated response of layered mechanical metamaterials alternating pentamode lattices and confinement plates. Composite Structures, 2016, 157, 71-77.	5.8	67
99	Waste management by recycling of polymers with reinforcement of metal powder. Composites Part B: Engineering, 2016, 105, 23-29.	12.0	65
100	Experimental investigations for mechanical and metallurgical properties of friction stir welded recycled dissimilar polymer materials with metal powder reinforcement. Composites Part B: Engineering, 2016, 103, 90-97.	12.0	20
101	Surface roughness effects on the reinforcement of cement mortars through 3D printed metallic fibers. Composites Part B: Engineering, 2016, 99, 305-311.	12.0	70
102	On the reinforcement of cement mortars through 3D printed polymeric and metallic fibers. Composites Part B: Engineering, 2016, 90, 76-85.	12.0	123
103	Experimental response of additively manufactured metallic pentamode materials confined between stiffening plates. Composite Structures, 2016, 142, 254-262.	5.8	96
104	A Tensegrity Paradigm for Minimal Mass Design of Roofs and Bridges. Lecture Notes in Applied and Computational Mechanics, 2016, , 91-114.	2.2	3
105	OPTIMAL DESIGN AND ADDITIVE MANUFACTURING OF NOVEL REINFORCING ELEMENTS FOR COMPOSITE MATERIALS. , 2016, , .		11
106	DEPENDENCE OF THE MECHANICAL PROPERTIES OF PENTAMODE MATERIALS ON THE LATTICE MICROSTRUCTURE. , 2016, , .		18
107	MINIMAL MASS DESIGN OF STRENGTHENING TECHNIQUES FOR PLANAR AND CURVED MASONRY STRUCTURES. , 2016, , .		2
108	ON THE OPTIMAL DESIGN OF CABLE-STAYED BRIDGES. , 2016, , .		3

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109	STRUCTURAL ANALYSIS OF ADHESIVE BONDING FOR THICK-WALLED TUBULAR COMPOSITE PROFILES. , 2016, , .		2
110	Minimum Mass and Optimal Complexity of Planar Tensegrity Bridges. International Journal of Space Structures, 2015, 30, 221-243.	1.0	32
111	On the use of tensegrity structures for kinetic solar facades of smart buildings. Smart Materials and Structures, 2015, 24, 105032.	3.5	36
112	Recycled nylon fibers as cement mortar reinforcement. Construction and Building Materials, 2015, 80, 200-209.	7.2	165
113	On the additive manufacturing, post-tensioning and testing of bi-material tensegrity structures. Composite Structures, 2015, 131, 66-71.	5.8	81
114	On the thrust surface of unreinforced and FRP-/FRCM-reinforced masonry domes. Composites Part B: Engineering, 2015, 83, 297-305.	12.0	51
115	A tensegrity approach to the optimal reinforcement of masonry domes and vaults through fiber-reinforced composite materials. Composite Structures, 2015, 134, 247-254.	5.8	74
116	An accurate one-dimensional theory for the dynamics of laminated composite curved beams. Journal of Sound and Vibration, 2015, 336, 96-105.	3.9	23
117	On the mechanical modeling of the extreme softening/stiffening response of axially loaded tensegrity prisms. Journal of the Mechanics and Physics of Solids, 2015, 74, 136-157.	4.8	93
118	ON THE FORCED VIBRATION TEST BY VIBRODYNE. , 2015, , .		15
119	ON THE USE OF MECHANICAL METAMATERIALS FOR INNOVATIVE SEISMIC ISOLATIONS SYSTEMS. , 2015, , .		18
120	OPTIMAL DESIGN AND DYNAMICS OF TRUSS BRIDGES. , 2015, , .		10
121	PRESTRESS TUNING OF THE NONLINEAR DYNAMICS OF TENSEGRITY METAMATERIALS. , 2015, , .		1
122	ADVANCED MODELS FOR THE LIMIT ANALYSIS OF MASONRY STRUCTURES. , 2015, , .		4
123	RENEWABLE ENERGY TENSEGRITY STRUCTURES. , 2015, , .		0
124	Multiscale tunability of solitary wave dynamics in tensegrity metamaterials. Applied Physics Letters, 2014, 105, .	3.3	128
125	Multiscale Mass-Spring Model for High-Rate Compression of Vertically Aligned Carbon Nanotube Foams. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	15
126	Experimental investigation of the softeningâ€“stiffening response of tensegrity prisms under compressive loading. Composite Structures, 2014, 117, 234-243.	5.8	89

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127	On the Correspondence between 2D Force Networks and Polyhedral Stress Functions. <i>International Journal of Space Structures</i> , 2014, 29, 145-159.	1.0	18
128	Effects of recycled PET fibres on the mechanical properties and seawater curing of Portland cement-based concretes. <i>Construction and Building Materials</i> , 2014, 61, 293-302.	7.2	98
129	A discrete-to-continuum approach to the curvatures of membrane networks and parametric surfaces. <i>Mechanics Research Communications</i> , 2014, 56, 18-25.	1.8	15
130	Multi-scale modeling and characterization of innovative materials and structures. <i>Mechanics Research Communications</i> , 2014, 58, 1.	1.8	0
131	Minimum mass design of tensegrity bridges with parametric architecture and multiscale complexity. <i>Mechanics Research Communications</i> , 2014, 58, 124-132.	1.8	79
132	Directional Wave Propagation in a Highly Nonlinear Square Packing of Spheres. <i>Experimental Mechanics</i> , 2013, 53, 327-337.	2.0	64
133	Bidirectional Barbed Suture in Laparoscopic Myomectomy: Clinical Features. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , 2013, 23, 1006-1010.	1.0	14
134	Buckling behavior of curved composite beams with different elastic response in tension and compression. <i>Composite Structures</i> , 2013, 100, 280-289.	5.8	43
135	Rate-independent dissipation and loading direction effects in compressed carbon nanotube arrays. <i>Nanotechnology</i> , 2013, 24, 255707.	2.6	22
136	On the use of R-PET strips for the reinforcement of cement mortars. <i>Composites Part B: Engineering</i> , 2013, 46, 207-210.	12.0	81
137	Modeling microscale instabilities in compressed carbon nanotube bundles using multistable spring models. <i>Composite Structures</i> , 2013, 96, 745-750.	5.8	6
138	Friction Model for Sliding Bearings under Seismic Excitation. <i>Journal of Earthquake Engineering</i> , 2013, 17, 1162-1191.	2.5	84
139	Multiscale Mass-Spring Models of Carbon Nanotube Arrays Accounting for Mullins-like Behavior and Permanent Deformation. <i>Multiscale Modeling and Simulation</i> , 2013, 11, 545-565.	1.6	4
140	Bidirectional Barbed Suture in Total Laparoscopic Hysterectomy and Lymph Node Dissection for Endometrial Cancer: Technical Evaluation and 1-Year Follow-Up of 61 Patients. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , 2013, 23, 347-350.	1.0	15
141	Historic and Traditional Structures during the 2010 Chile Earthquake: Observations, Codes, and Conservation Strategies. <i>Earthquake Spectra</i> , 2012, 28, 425-451.	3.1	39
142	Highly nonlinear solitary wave propagation in Y-shaped granular crystals with variable branch angles. <i>Physical Review E</i> , 2012, 85, 036602.	2.1	39
143	A multiscale approach to the elastic moduli of biomembrane networks. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 1097-1108.	2.8	11
144	Continuum limits of bistable spring models of carbon nanotube arrays accounting for material damage. <i>Mechanics Research Communications</i> , 2012, 45, 58-63.	1.8	31

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145	Damage identification procedure for seismically isolated bridges. <i>Structural Control and Health Monitoring</i> , 2012, 19, 565-578.	4.0	21
146	On the estimation of the curvatures and bending rigidity of membrane networks via a local maximum-entropy approach. <i>Journal of Computational Physics</i> , 2012, 231, 528-540.	3.8	38
147	Universal formulae for the limiting elastic energy of membrane networks. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 172-180.	4.8	57
148	Solitary waves on tensegrity lattices. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1137-1144.	4.8	109
149	An experimental model of buckling restrained braces for multiperformance optimum design. <i>Seismic Isolation and Protective Systems</i> , 2011, 2, 75-90.	0.2	0
150	Experimental study of the thermo-mechanical properties of recycled PET fiber-reinforced concrete. <i>Composite Structures</i> , 2011, 93, 2368-2374.	5.8	218
151	Modeling and in situ identification of material parameters for layered structures based on carbon nanotube arrays. <i>Composite Structures</i> , 2011, 93, 3013-3018.	5.8	50
152	Multiscale mass-spring models of carbon nanotube foams. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 89-102.	4.8	68
153	A mixed lumped stress-displacement approach to the elastic problem of masonry walls. <i>Mechanics Research Communications</i> , 2011, 38, 176-180.	1.8	20
154	On the Structural Shape Optimization through Variational Methods and Evolutionary Algorithms. <i>Mechanics of Advanced Materials and Structures</i> , 2011, 18, 225-243.	2.6	39
155	A thrust network approach to the equilibrium problem of unreinforced masonry vaults via polyhedral stress functions. <i>Mechanics Research Communications</i> , 2010, 37, 198-204.	1.8	137
156	On the convergence of 3D free discontinuity models in variational fracture. <i>International Journal of Fracture</i> , 2010, 166, 3-11.	2.2	13
157	Publisher's Note: Highly nonlinear pulse splitting and recombination in a two-dimensional granular network [Phys. Rev. E82, 036603 (2010)]. <i>Physical Review E</i> , 2010, 82, .	2.1	1
158	Highly nonlinear pulse splitting and recombination in a two-dimensional granular network. <i>Physical Review E</i> , 2010, 82, 036603.	2.1	38
159	On the convergence of 3D free discontinuity models in variational fracture. , 2010, , 3-11.		0
160	Angular Dependence of Highly Nonlinear Pulse Splitting in a Two Dimensional Granular Network. , 2010, , .		0
161	Eigenfracture: An Eigendeformation Approach to Variational Fracture. <i>Multiscale Modeling and Simulation</i> , 2009, 7, 1237-1266.	1.6	122
162	Optimal Design of Composite Granular Protectors. <i>Mechanics of Advanced Materials and Structures</i> , 2009, 17, 1-19.	2.6	112

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163	Computational assessment of ballistic impact on a high strength structural steel/polyurea composite plate. <i>Computational Mechanics</i> , 2009, 43, 525-534.	4.0	67
164	A variational constitutive model for soft biological tissues. <i>Journal of Biomechanics</i> , 2008, 41, 1458-1466.	2.1	70
165	Biomechanics of traumatic brain injury. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 4692-4701.	6.6	135
166	Error Estimates for a Lumped Stress Method for Plane Elastic Problems. <i>Mechanics of Advanced Materials and Structures</i> , 2007, 14, 309-320.	2.6	5
167	Free discontinuity finite element models in two-dimensions for in-plane crack problems. <i>Theoretical and Applied Fracture Mechanics</i> , 2007, 47, 274-282.	4.7	47
168	Anisotropic constitutive equations and experimental tensile behavior of brain tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2006, 5, 53-61.	2.8	205
169	Load carrying capacity of 2D FRP/strengthened masonry structures. <i>Composites Part B: Engineering</i> , 2005, 36, 619-626.	12.0	70
170	A lumped stress method for plane elastic problems and the discrete-continuum approximation. <i>International Journal of Solids and Structures</i> , 2002, 39, 6211-6240.	2.7	77
171	Complementary energy variational approach for plane elastic problems with singularities. <i>Theoretical and Applied Fracture Mechanics</i> , 2001, 35, 129-135.	4.7	9
172	On a moderate rotation theory of thin-walled composite beams. <i>Composites Part B: Engineering</i> , 2000, 31, 141-158.	12.0	54
173	Nonlinear elastic stress analysis in curved composite beams. <i>Computers and Structures</i> , 1997, 62, 837-859.	4.4	51
174	Energy release rates for delamination of composite beams. <i>Theoretical and Applied Fracture Mechanics</i> , 1996, 25, 225-232.	4.7	5
175	A penalty model for the analysis of laminated composite shells. <i>International Journal of Solids and Structures</i> , 1993, 30, 3337-3355.	2.7	50
176	A penalty model for the analysis of curved composite beams. <i>Computers and Structures</i> , 1992, 45, 985-999.	4.4	52
177	Novel Actuators and Sensors with Tensegrity Architecture. <i>Key Engineering Materials</i> , 0, 826, 105-110.	0.4	0
178	Mechanical and Experimental Study on the use of Sustainable Materials for Additive Manufacturing. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 473, 012010.	0.6	2
179	Computational Modeling of the Seismic Response of Tensegrity Dissipative Devices Incorporating Shape Memory Alloys. , 0, , .		0
180	Computational Modeling of The Mechanics of Energy Harvesters Based On Tensegrity Solar Façades. , 0, , .		0

#	ARTICLE	IF	CITATIONS
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