

Fernando Fraternali

List of Publications by Year in descending order

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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	Recycling of plastic solid waste: A state of art review and future applications. Composites Part B: Engineering, 2017, 115, 409-422.	12.0	763
2	Experimental study of the thermo-mechanical properties of recycled PET fiber-reinforced concrete. Composite Structures, 2011, 93, 2368-2374.	5.8	218
3	Anisotropic constitutive equations and experimental tensile behavior of brain tissue. Biomechanics and Modeling in Mechanobiology, 2006, 5, 53-61.	2.8	205
4	Recycled nylon fibers as cement mortar reinforcement. Construction and Building Materials, 2015, 80, 200-209.	7.2	165
5	A thrust network approach to the equilibrium problem of unreinforced masonry vaults via polyhedral stress functions. Mechanics Research Communications, 2010, 37, 198-204.	1.8	137
6	Biomechanics of traumatic brain injury. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4692-4701.	6.6	135
7	Multiscale tunability of solitary wave dynamics in tensegrity metamaterials. Applied Physics Letters, 2014, 105, .	3.3	128
8	On the reinforcement of cement mortars through 3D printed polymeric and metallic fibers. Composites Part B: Engineering, 2016, 90, 76-85.	12.0	123
9	Eigenfracture: An Eigendeformation Approach to Variational Fracture. Multiscale Modeling and Simulation, 2009, 7, 1237-1266.	1.6	122
10	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
11	Multi-Material Additive Manufacturing of Sustainable Innovative Materials and Structures. Polymers, 2019, 11, 62.	4.5	118
12	Graphene as biomedical sensing element: State of art review and potential engineering applications. Composites Part B: Engineering, 2018, 134, 193-206.	12.0	113
13	Optimal Design of Composite Granular Protectors. Mechanics of Advanced Materials and Structures, 2009, 17, 1-19.	2.6	112
14	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
15	Solitary waves on tensegrity lattices. Journal of the Mechanics and Physics of Solids, 2012, 60, 1137-1144.	4.8	109
16	Investigation for surface finish improvement of FDM parts by vapor smoothing process. Composites Part B: Engineering, 2017, 111, 228-234.	12.0	105
17	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
18	Effects of recycled PET fibres on the mechanical properties and seawater curing of Portland cement-based concretes. Construction and Building Materials, 2014, 61, 293-302.	7.2	98

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19	Experimental response of additively manufactured metallic pentamode materials confined between stiffening plates. <i>Composite Structures</i> , 2016, 142, 254-262.	5.8	96
20	On the recyclability of polyamide for sustainable composite structures in civil engineering. <i>Composite Structures</i> , 2018, 184, 704-713.	5.8	95
21	On the mechanical modeling of the extreme softening/stiffening response of axially loaded tensegrity prisms. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 74, 136-157.	4.8	93
22	Experimental investigation of the softening–stiffening response of tensegrity prisms under compressive loading. <i>Composite Structures</i> , 2014, 117, 234-243.	5.8	89
23	Thermal characterization of recycled polymer for additive manufacturing applications. <i>Composites Part B: Engineering</i> , 2016, 106, 42-47.	12.0	86
24	Friction Model for Sliding Bearings under Seismic Excitation. <i>Journal of Earthquake Engineering</i> , 2013, 17, 1162-1191.	2.5	84
25	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
26	On the additive manufacturing, post-tensioning and testing of bi-material tensegrity structures. <i>Composite Structures</i> , 2015, 131, 66-71.	5.8	81
27	Minimum mass design of tensegrity bridges with parametric architecture and multiscale complexity. <i>Mechanics Research Communications</i> , 2014, 58, 124-132.	1.8	79
28	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
29	A tensegrity approach to the optimal reinforcement of masonry domes and vaults through fiber-reinforced composite materials. <i>Composite Structures</i> , 2015, 134, 247-254.	5.8	74
30	Mechanical modeling of innovative metamaterials alternating pentamode lattices and confinement plates. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 99, 259-271.	4.8	72
31	Load carrying capacity of 2D FRP/strengthened masonry structures. <i>Composites Part B: Engineering</i> , 2005, 36, 619-626.	12.0	70
32	A variational constitutive model for soft biological tissues. <i>Journal of Biomechanics</i> , 2008, 41, 1458-1466.	2.1	70
33	Surface roughness effects on the reinforcement of cement mortars through 3D printed metallic fibers. <i>Composites Part B: Engineering</i> , 2016, 99, 305-311.	12.0	70
34	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
35	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
36	Bending dominated response of layered mechanical metamaterials alternating pentamode lattices and confinement plates. <i>Composite Structures</i> , 2016, 157, 71-77.	5.8	67

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37	Waste management by recycling of polymers with reinforcement of metal powder. Composites Part B: Engineering, 2016, 105, 23-29.	12.0	65
38	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
39	Directional Wave Propagation in a Highly Nonlinear Square Packing of Spheres. Experimental Mechanics, 2013, 53, 327-337.	2.0	64
40	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
41	Effect of single particle size, double particle size and triple particle size Al ₂ O ₃ in Nylon-6 matrix on mechanical properties of feed stock filament for FDM. Composites Part B: Engineering, 2016, 106, 20-27.	12.0	61
42	On the additive manufacturing of an energy storage device from recycled material. Composites Part B: Engineering, 2019, 156, 259-265.	12.0	59
43	Accordion-like metamaterials with tunable ultra-wide low-frequency band gaps. New Journal of Physics, 2018, 20, 073051.	2.9	58
44	Universal formulae for the limiting elastic energy of membrane networks. Journal of the Mechanics and Physics of Solids, 2012, 60, 172-180.	4.8	57
45	On a moderate rotation theory of thin-walled composite beams. Composites Part B: Engineering, 2000, 31, 141-158.	12.0	54
46	On the wear properties of Nylon6-SiC-Al ₂ O ₃ based fused deposition modelling feed stock filament. Composites Part B: Engineering, 2017, 119, 125-131.	12.0	54
47	A penalty model for the analysis of curved composite beams. Computers and Structures, 1992, 45, 985-999.	4.4	52
48	Nonlinear elastic stress analysis in curved composite beams. Computers and Structures, 1997, 62, 837-859.	4.4	51
49	On the thrust surface of unreinforced and FRP/FRCM-reinforced masonry domes. Composites Part B: Engineering, 2015, 83, 297-305.	12.0	51
50	A penalty model for the analysis of laminated composite shells. International Journal of Solids and Structures, 1993, 30, 3337-3355.	2.7	50
51	Modeling and in situ identification of material parameters for layered structures based on carbon nanotube arrays. Composite Structures, 2011, 93, 3013-3018.	5.8	50
52	Non-linear elastic response of layered structures, alternating pentamode lattices and confinement plates. Composites Part B: Engineering, 2017, 115, 117-123.	12.0	48
53	Free discontinuity finite element models in two-dimensions for in-plane crack problems. Theoretical and Applied Fracture Mechanics, 2007, 47, 274-282.	4.7	47
54	Optimal prestress design of composite cable-stayed bridges. Composite Structures, 2017, 169, 167-172.	5.8	44

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55	Metal matrix composite from recycled materials by using additive manufacturing assisted investment casting. <i>Composite Structures</i> , 2019, 207, 129-135.	5.8	44
56	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
57	High-Performance Nylon-6 Sustainable Filaments for Additive Manufacturing. <i>Materials</i> , 2019, 12, 3955.	2.9	41
58	Low velocity impact response of 3D printed structures formed by cellular metamaterials and stiffening plates: PLA vs. PETg. <i>Composite Structures</i> , 2021, 256, 113128.	5.8	41
59	Composite solar facades and wind generators with tensegrity architecture. <i>Composites Part B: Engineering</i> , 2017, 115, 275-281.	12.0	40
60	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
61	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
62	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
63	Highly nonlinear pulse splitting and recombination in a two-dimensional granular network. <i>Physical Review E</i> , 2010, 82, 036603.	2.1	38
64	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
65	Epoxy/glass fibres composites for civil applications: Comparison between thermal and microwave crosslinking routes. <i>Composites Part B: Engineering</i> , 2017, 126, 100-107.	12.0	37
66	On the use of tensegrity structures for kinetic solar facades of smart buildings. <i>Smart Materials and Structures</i> , 2015, 24, 105032.	3.5	36
67	Effect of prestress on phononic band gaps induced by inertial amplification. <i>International Journal of Solids and Structures</i> , 2021, 216, 156-166.	2.7	35
68	Size effect and dynamic properties of 2D lattice materials. <i>Composites Part B: Engineering</i> , 2017, 112, 235-242.	12.0	33
69	Minimum Mass and Optimal Complexity of Planar Tensegrity Bridges. <i>International Journal of Space Structures</i> , 2015, 30, 221-243.	1.0	32
70	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
71	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
72	Limit analysis of masonry structures with free discontinuities. <i>Meccanica</i> , 2018, 53, 1793-1802.	2.0	29

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73	Meta-tensegrity: Design of a tensegrity prism with metal rubber. <i>Composite Structures</i> , 2018, 206, 644-657.	5.8	27
74	Mechanics of smart origami sunscreens with energy harvesting ability. <i>Mechanics Research Communications</i> , 2020, 105, 103503.	1.8	26
75	A minimal mass deployable structure for solar energy harvesting on water canals. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 449-458.	3.5	24
76	Incremental auxetic response of composite lattices under isotropic prestress. <i>Composite Structures</i> , 2018, 191, 145-153.	5.8	24
77	An accurate one-dimensional theory for the dynamics of laminated composite curved beams. <i>Journal of Sound and Vibration</i> , 2015, 336, 96-105.	3.9	23
78	Rate-independent dissipation and loading direction effects in compressed carbon nanotube arrays. <i>Nanotechnology</i> , 2013, 24, 255707.	2.6	22
79	Tensegrity cell mechanical metamaterial with metal rubber. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	22
80	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
81	Damage identification procedure for seismically isolated bridges. <i>Structural Control and Health Monitoring</i> , 2012, 19, 565-578.	4.0	21
82	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
83	Experimental investigations for mechanical and metallurgical properties of friction stir welded recycled dissimilar polymer materials with metal powder reinforcement. <i>Composites Part B: Engineering</i> , 2016, 103, 90-97.	12.0	20
84	On the Geometrically Nonlinear Elastic Response of Class I Tensegrity Prisms. <i>Frontiers in Materials</i> , 2018, 5, .	2.4	20
85	Cohesive interface behaviour and local shear strains in axially loaded composite annular tubes. <i>Composite Structures</i> , 2017, 160, 1126-1135.	5.8	19
86	Numerical and Analytical Approaches to the Self-Equilibrium Problem of Class I Tensegrity Metamaterials. <i>Frontiers in Materials</i> , 2018, 5, .	2.4	19
87	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
88	On the minimal mass reinforcement of masonry structures with arbitrary shapes. <i>Meccanica</i> , 2017, 52, 1561-1576.	2.0	18
89	DEPENDENCE OF THE MECHANICAL PROPERTIES OF PENTAMODE MATERIALS ON THE LATTICE MICROSTRUCTURE. , 2016, , .		18
90	ON THE USE OF MECHANICAL METAMATERIALS FOR INNOVATIVE SEISMIC ISOLATIONS SYSTEMS. , 2015, , .		18

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91	Mechanical modeling of superelastic tensegrity braces for earthquake-proof structures. <i>Extreme Mechanics Letters</i> , 2019, 33, 100578.	4.1	17
92	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
93	Multiscale Mass-Spring Model for High-Rate Compression of Vertically Aligned Carbon Nanotube Foams. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	2.2	15
94	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
95	On the compact wave dynamics of tensegrity beams in multiple dimensions. <i>Nonlinear Dynamics</i> , 2019, 98, 2737-2753.	5.2	15
96	Free and forced vibrations of damped locally-resonant sandwich beams. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104188.	3.7	15
97	ON THE FORCED VIBRATION TEST BY VIBRODYNE. , 2015, , .		15
98	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
99	Special issue on composite lattices and multiscale innovative materials and structures. <i>Composites Part B: Engineering</i> , 2017, 115, 1-2.	12.0	14
100	Physical-mechanical characterization of biodegradable Mg-3Si-HA composites. <i>PSU Research Review</i> , 2018, 2, 152-174.	2.4	14
101	A biomimetic sliding “stretching” approach to seismic isolation. <i>Nonlinear Dynamics</i> , 2021, 106, 3147.	5.2	14
102	On the convergence of 3D free discontinuity models in variational fracture. <i>International Journal of Fracture</i> , 2010, 166, 3-11.	2.2	13
103	On the Kinematics and Actuation of Dynamic Sunscreens With Tensegrity Architecture. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	13
104	A multiscale approach to the elastic moduli of biomembrane networks. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 1097-1108.	2.8	11
105	Meso-Scale Formulation of a Cracked-Hinge Model for Hybrid Fiber-Reinforced Cement Composites. <i>Fibers</i> , 2020, 8, 56.	4.0	11
106	Tensegrity Modelling and the High Toughness of Spider Dragline Silk. <i>Nanomaterials</i> , 2020, 10, 1510.	4.1	11
107	OPTIMAL DESIGN AND ADDITIVE MANUFACTURING OF NOVEL REINFORCING ELEMENTS FOR COMPOSITE MATERIALS. , 2016, , .		11
108	OPTIMAL DESIGN AND DYNAMICS OF TRUSS BRIDGES. , 2015, , .		10

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109	Complementary energy variational approach for plane elastic problems with singularities. Theoretical and Applied Fracture Mechanics, 2001, 35, 129-135.	4.7	9
110	Novel magnetic levitation systems for the vibration control of lightweight structures and artworks. Structural Control and Health Monitoring, 2022, 29, .	4.0	7
111	Modeling microscale instabilities in compressed carbon nanotube bundles using multistable spring models. Composite Structures, 2013, 96, 745-750.	5.8	6
112	Energy release rates for delamination of composite beams. Theoretical and Applied Fracture Mechanics, 1996, 25, 225-232.	4.7	5
113	Error Estimates for a Lumped Stress Method for Plane Elastic Problems. Mechanics of Advanced Materials and Structures, 2007, 14, 309-320.	2.6	5
114	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
115	INDUCING DISPERSION CURVES WITH NEGATIVE GROUP VELOCITY IN INERTIALLY AMPLIFIED PHONONIC CRYSTALS THROUGH THE APPLICATION OF AN EXTERNAL STATE OF PRESTRESS. , 2020, , .		5
116	Multiscale Mass-Spring Models of Carbon Nanotube Arrays Accounting for Mullins-like Behavior and Permanent Deformation. Multiscale Modeling and Simulation, 2013, 11, 545-565.	1.6	4
117	A multi-mode approach for multi-directional damage detection in frame structures. Engineering Structures, 2017, 147, 505-516.	5.3	4
118	Experimental Investigations for Development of Hybrid Feed Stock Filament of Fused Deposition Modeling. , 2018, , .		4
119	On the Distribution in Height of Base Shear Forces in Linear Static Analysis of Base-Isolated Structures. Buildings, 2020, 10, 197.	3.1	4
120	ADVANCED MODELS FOR THE LIMIT ANALYSIS OF MASONRY STRUCTURES. , 2015, , .		4
121	ACCURATE NUMERICAL METHODS FOR STUDYING THE NONLINEAR WAVE-DYNAMICS OF TENSEGRITY METAMATERIALS. , 2017, , .		4
122	INNOVATIVE DEVICES FOR THE BASE ISOLATION OF EXISTING BUILDINGS. , 2017, , .		4
123	On the mechanics of tetrakis-like lattices in the stretch-dominated regime. Extreme Mechanics Letters, 2017, 15, 57-62.	4.1	3
124	Experimental and Numerical Study on the Lateral-Torsional Buckling of Steel C-Beams with Variable Cross-Section. Metals, 2018, 8, 941.	2.3	3
125	Investigations for Development of Feed Stock Filament of Fused Deposition Modeling From Recycled Polyamide. , 2018, , .		3
126	A Tensegrity Paradigm for Minimal Mass Design of Roofs and Bridges. Lecture Notes in Applied and Computational Mechanics, 2016, , 91-114.	2.2	3

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127	Mechanical characterization of FDM filaments with PVDF matrix reinforced with Graphene and Barium Titanate. IOP Conference Series: Materials Science and Engineering, 2020, 999, 012010.	0.6	3
128	ON THE OPTIMAL DESIGN OF CABLE-STAYED BRIDGES. , 2016, , .		3
129	Effective stiffness properties of multi-layered pentamode lattices in the stretching-dominated regime. , 2019, , .		2
130	Mechanical and Experimental Study on the use of Sustainable Materials for Additive Manufacturing. IOP Conference Series: Materials Science and Engineering, 0, 473, 012010.	0.6	2
131	On the shape optimisation of the force networks of masonry structures. International Journal of Masonry Research and Innovation, 2019, 4, 78.	0.4	2
132	MODELING AND DESIGN OF PERIODIC LATTICES WITH TENSEGRITY ARCHITECTURE AND HIGHLY NONLINEAR RESPONSE. , 2021, , .		2
133	MINIMAL MASS DESIGN OF STRENGTHENING TECHNIQUES FOR PLANAR AND CURVED MASONRY STRUCTURES. , 2016, , .		2
134	STRUCTURAL ANALYSIS OF ADHESIVE BONDING FOR THICK-WALLED TUBULAR COMPOSITE PROFILES. , 2016, , .		2
135	Mechanical response of tensegrity dissipative devices incorporating shape memory alloys. IOP Conference Series: Materials Science and Engineering, 2020, 999, 012001.	0.6	2
136	Publisher's Note: Highly nonlinear pulse splitting and recombination in a two-dimensional granular network [Phys. Rev. E82, 036603 (2010)]. Physical Review E, 2010, 82, .	2.1	1
137	Tunable extremely wide low-frequency band gaps in accordion-like metamaterials. , 2018, , .		1
138	A Finite Element Analysis of the Stability of Composite Beams With Arbitrary Curvature. Frontiers in Built Environment, 2018, 4, .	2.3	1
139	Editorial: Multiscale Lattices and Composite Materials: Optimal Design, Modeling and Characterization. Frontiers in Materials, 2019, 6, .	2.4	1
140	On a modified Beckerâ€™s ring model for two-phase materials. Continuum Mechanics and Thermodynamics, 2020, 32, 901-912.	2.2	1
141	On process modelling of cold chamber die casting of Al alloy by using buckinghamâ€™s approach. Materials Today: Proceedings, 2021, 48, 1416-1416.	1.8	1
142	PRESTRESS TUNING OF THE NONLINEAR DYNAMICS OF TENSEGRITY METAMATERIALS. , 2015, , .		1
143	EXPERIMENTAL AND NUMERICAL STUDY OF WAVE DYNAMICS IN TENSEGRITY COLUMNS. , 2017, , .		1
144	INNOVATIVE STRUCTURES FOR DYNAMIC SOLAR FAÇADES. , 2017, , .		1

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145	Mechanics of energy harvesters based on tensegrity solar facades. IOP Conference Series: Materials Science and Engineering, 2020, 999, 012003.	0.6	1
146	Thermomechanical and morphological properties of sustainable mortars employing blast furnace slag and fly ash reinforced cement. IOP Conference Series: Materials Science and Engineering, 0, 999, 012009.	0.6	1
147	Investigating the evolution of landslides via dimensionless displacement trends. Mathematics and Mechanics of Complex Systems, 2021, 9, 231-272.	0.9	1
148	An experimental model of buckling restrained braces for multiperformance optimum design. Seismic Isolation and Protective Systems, 2011, 2, 75-90.	0.2	0
149	Multi-scale modeling and characterization of innovative materials and structures. Mechanics Research Communications, 2014, 58, 1.	1.8	0
150	Lateral-Torsional Buckling of C-Beams with Varying Inertia. IOP Conference Series: Materials Science and Engineering, 2019, 473, 012011.	0.6	0
151	Mechanical modeling of the bandgap response of tensegrity metamaterials. AIP Conference Proceedings, 2019, , .	0.4	0
152	Nonlinear wave dynamics of tensegrity metamaterials. , 2019, , .		0
153	On the equilibrium problem and infinitesimal mechanisms of class theta tensegrity systems. , 2019, , .		0
154	Novel Actuators and Sensors with Tensegrity Architecture. Key Engineering Materials, 0, 826, 105-110.	0.4	0
155	Green Design of Novel Metal Matrix Composites. IOP Conference Series: Materials Science and Engineering, 2019, 473, 012008.	0.6	0
156	Staging and Pretensioning of Cable-Stayed Bridges. IOP Conference Series: Materials Science and Engineering, 2019, 473, 012012.	0.6	0
157	Graphene Reinforced Composites as Sensing Elements. Key Engineering Materials, 2019, 826, 33-44.	0.4	0
158	Fast and Optimized Calculation of the Cable Pretension Forces in Arch Bridges With Suspended Deck. Frontiers in Built Environment, 2020, 6, .	2.3	0
159	A DYNAMIC-STIFFNESS APPROACH FOR DAMPED LOCALLY-RESONANT TIMOSHENKO BEAMS. , 2021, , .		0
160	SEISMIC METAMATERIALS WITH TENSEGRITY ARCHITECTURE. , 2021, , .		0
161	Computational Modeling of the Seismic Response of Tensegrity Dissipative Devices Incorporating Shape Memory Alloys. , 0, , .		0
162	A MESOSCALE TENSEGRITY MODEL OF SPIDER DRAGLINE SILK FIBER. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
163	Computational Modeling of The Mechanics of Energy Harvesters Based On Tensegrity Solar Façades. , 0, , .		0
164	Computational Modeling of the Experimental Response of Microscale Bistable Tensegrity Structures. , 0, , .		0
165	GEOMETRIC PATTERNS AND DYNAMICS OF FOLDABLE MODULI FOR ADAPTIVE FAÇADES. , 2021, , .		0
166	On the convergence of 3D free discontinuity models in variational fracture. , 2010, , 3-11.		0
167	Angular Dependence of Highly Nonlinear Pulse Splitting in a Two Dimensional Granular Network. , 2010, , .		0
168	RENEWABLE ENERGY TENSEGRITY STRUCTURES. , 2015, , .		0
169	Sustainable construction materials based on recycled asbestos cement wastes. , 2019, , .		0
170	HARNESSING TENSEGRITY TO DESIGN TUNABLE METAMATERIALS FOR BROADBAND LOW-FREQUENCY WAVE ATTENUATION. , 2019, , .		0
171	ON THE COMPUTATIONAL DESIGN OF INNOVATIVE SEISMIC ISOLATION DEVICES BASED ON LATTICE MATERIALS. , 2019, , .		0
172	ON THE SOLITARY WAVE DYNAMICS OF TENSEGRITY LATTICES WITH STIFFENING RESPONSE: A NUMERICAL STUDY. , 2019, , .		0
173	COMPUTATIONAL MODELING OF THE DYNAMICS OF ACTIVE SUNSCREENS WITH TENSEGRITY ARCHITECTURE. , 2019, , .		0
174	COMPUTATIONAL PREDICTION OF THE STABILITY OF TENSEGRITY STRUCTURES. , 2019, , .		0
175	Mathematical Modeling of Surface Roughness in the Forming of Innovative Materials. IOP Conference Series: Materials Science and Engineering, 0, 473, 012009.	0.6	0
176	Design and optimization of pre-tension forces in cable-stayed bridges. , 2019, , 1051-1055.		0
177	Design and control of adaptive tensegrity sunscreens. , 2019, , 1027-1032.		0
178	On the lateral-torsional buckling of non-uniform C-beams. , 2019, , 866-869.		0
179	On the fabrication and mechanical modelling microscale bistable tensegrity systems. IOP Conference Series: Materials Science and Engineering, 0, 999, 012002.	0.6	0
180	A DISCRETE-TO-CONTINUUM APPROACH TO FREQUENCY BANGAPS IN 1D BIATOMIC METAMATERIALS. , 2020, , .		0

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181	ON THE WAVE DYNAMICS OF MICROSCALE BISTABLE TENSEGRITY STRUCTURES. , 2020, , .		0
182	DYNAMICS OF TENSEGRITY SOLAR FAÇADES OPERATING AS MECHANICAL ENERGY HARVESTERS. , 2020, , .		0
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