

Charles E Bakis

List of Publications by Year in descending order

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152
papers

4,546
citations

172457

29
h-index

110387

64
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180
all docs

180
docs citations

180
times ranked

3484
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber-Reinforced Polymer Composites for Construction—State-of-the-Art Review. <i>Journal of Composites for Construction</i> , 2002, 6, 73-87.	3.2	1,370
2	Interfacial damping characteristics of carbon nanotube-based composites. <i>Composites Science and Technology</i> , 2004, 64, 2425-2437.	7.8	322
3	Local Bond-Slip Relationship for FRP Reinforcement in Concrete. <i>Journal of Composites for Construction</i> , 2000, 4, 24-31.	3.2	162
4	Self-monitoring, pseudo-ductile, hybrid FRP reinforcement rods for concrete applications. <i>Composites Science and Technology</i> , 2001, 61, 815-823.	7.8	117
5	Variable Stiffness Structures Utilizing Fluidic Flexible Matrix Composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 443-456.	2.5	110
6	Accelerated ReaxFF Simulations for Describing the Reactive Cross-Linking of Polymers. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6633-6642.	2.5	96
7	Effects of carbon nanofiller functionalization and distribution on interlaminar fracture toughness of multi-scale reinforced polymer composites. <i>Carbon</i> , 2012, 50, 1316-1331.	10.3	86
8	Nonlinear-elastic finite axisymmetric deformation of flexible matrix composite membranes under internal pressure and axial force. <i>Composites Science and Technology</i> , 2006, 66, 3053-3063.	7.8	85
9	Damage detection and conductivity evolution in carbon nanofiber epoxy via electrical impedance tomography. <i>Smart Materials and Structures</i> , 2014, 23, 045034.	3.5	81
10	The interfacial strength of carbon nanofiber epoxy composite using single fiber pullout experiments. <i>Nanotechnology</i> , 2009, 20, 295701.	2.6	80
11	Tactile imaging and distributed strain sensing in highly flexible carbon nanofiber/polyurethane nanocomposites. <i>Carbon</i> , 2015, 95, 485-493.	10.3	73
12	Fibrillar Network Adaptive Structure with Ion-transport Actuation. <i>Journal of Intelligent Material Systems and Structures</i> , 2007, 18, 323-334.	2.5	72
13	Flexible Matrix Composite Skins for One-dimensional Wing Morphing. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 1771-1781.	2.5	71
14	Damage detection via electrical impedance tomography in glass fiber/epoxy laminates with carbon black filler. <i>Structural Health Monitoring</i> , 2015, 14, 100-109.	7.5	71
15	Performance of FRP Tendon-Anchor Systems for Prestressed Concrete Structures. <i>PCI Journal</i> , 1996, 41, 34-44.	0.6	66
16	Test Methods for FRP-Concrete Systems Subjected to Mechanical Loads: State of the Art Review. <i>Journal of Reinforced Plastics and Composites</i> , 1995, 14, 524-558.	3.1	61
17	Experimental characterization of phenolic-impregnated honeycomb sandwich structures for transportation vehicles. <i>Composite Structures</i> , 2011, 93, 2910-2924.	5.8	50
18	Mechanical Behavior of Fiber-Reinforced Polymer-Wrapped Concrete Columns—Complicating Effects. <i>Journal of Composites for Construction</i> , 2004, 8, 97-103.	3.2	48

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19	Optimal design of press-fitted filament wound composite flywheel rotors. <i>Composite Structures</i> , 2006, 72, 47-57.	5.8	48
20	Multifunctional structural lithium-ion battery for electric vehicles. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 1603-1613.	2.5	45
21	Analysis of bonding mechanisms of smooth and lugged FRP rods embedded in concrete. <i>Composites Science and Technology</i> , 1998, 58, 1307-1319.	7.8	44
22	Slip effects in reinforced concrete beams with mechanically fastened FRP strip. <i>Cement and Concrete Composites</i> , 2009, 31, 496-504.	10.7	44
23	Effect of chemical structure on thermo-mechanical properties of epoxy polymers: Comparison of accelerated ReaxFF simulations and experiments. <i>Polymer</i> , 2018, 158, 354-363.	3.8	43
24	Durability Evaluation of Glass Fiber Reinforced-Polymer-Concrete Bonded Interfaces. <i>Journal of Composites for Construction</i> , 2005, 9, 348-359.	3.2	42
25	Effect of functionalization of single-wall carbon nanotubes (SWNTs) on the damping characteristics of SWNT-based epoxy composites via multiscale analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1748-1755.	7.6	36
26	On the inverse determination of displacements, strains, and stresses in a carbon nanofiber/polyurethane nanocomposite from conductivity data obtained via electrical impedance tomography. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2617-2629.	2.5	36
27	Slip Modulus of FRP Sheets Bonded to Concrete. <i>Journal of Composites for Construction</i> , 1999, 3, 161-167.	3.2	35
28	Evaluation of bond using FRP rods with axisymmetric deformations. <i>Construction and Building Materials</i> , 1999, 13, 299-309.	7.2	32
29	Effects of Interfacial Friction on the Damping Characteristics of Composites Containing Randomly Oriented Carbon Nanotube Ropes. <i>Journal of Intelligent Material Systems and Structures</i> , 2006, 17, 217-229.	2.5	29
30	Reactive Molecular Dynamics Simulations of the Atomic Oxygen Impact on Epoxies with Different Chemistries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15145-15156.	3.1	29
31	Evaluating the effect of variable fiber content on mechanical properties of additively manufactured continuous carbon fiber composites. <i>Journal of Reinforced Plastics and Composites</i> , 2021, 40, 365-377.	3.1	29
32	The Adiabatic Thermoelastic Effect in Laminated Fiber Composites. <i>Journal of Composite Materials</i> , 1991, 25, 809-830.	2.4	26
33	Deformation in Concrete with External CFRP Sheet Reinforcement. <i>Journal of Composites for Construction</i> , 2000, 4, 85-94.	3.2	26
34	Fatigue Behavior of Composite Laminates. <i>Composite Materials Series</i> , 1991, , 105-180.	0.2	25
35	Bond Durability of Glass Fiber-Reinforced Polymer Bars Embedded in Concrete Beams. <i>Journal of Composites for Construction</i> , 2007, 11, 269-278.	3.2	24
36	Analysis of stress concentration during tension of round pultruded composite rods. <i>Composite Structures</i> , 2008, 83, 100-109.	5.8	24

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37	Viscoelastic characterization and self-heating behavior of laminated fiber composite driveshafts. <i>Materials & Design</i> , 2015, 66, 346-355.	5.1	24
38	Effects of temperature and sustained loading on the mechanical response of CFRP bonded to concrete. <i>Construction and Building Materials</i> , 2016, 124, 442-452.	7.2	24
39	FRP Stay-in-Place Structural Forms for Concrete Bridge Decks: A State-of-the-Art Review. <i>ACI Structural Journal</i> , 2014, 111, .	0.2	23
40	Design, manufacture and test of a novel structural battery based on sandwich construction. <i>Journal of Sandwich Structures and Materials</i> , 2015, 17, 666-690.	3.5	22
41	Transfer and Development Lengths of FRP Prestressing Tendons. <i>PCI Journal</i> , 2000, 45, 84-95.	0.6	22
42	Multiscale Damping Model for Polymeric Composites Containing Carbon Nanotube Ropes. <i>Journal of Composite Materials</i> , 2010, 44, 2301-2323.	2.4	20
43	FRP Reinforcing bars " designs and methods of manufacture (Review of Patents). <i>Mechanics of Composite Materials</i> , 2013, 49, 381-400.	1.4	20
44	Response of Thick, Notched Laminates Subjected to Tension-Compression Cyclic Loads. , 1986, , 314-334.		20
45	Comparison of Bend Stress Relaxation and Tensile Creep of CVD SiC Fibers. <i>Journal of the American Ceramic Society</i> , 1995, 78, 3244-3252.	3.8	19
46	Effect of Environmental Pre-Conditioning on Bond of FRP Reinforcement to Concrete. <i>Journal of Reinforced Plastics and Composites</i> , 2001, 20, 881-900.	3.1	19
47	A new method of chaining carbon nanofibers in epoxy. <i>Nanotechnology</i> , 2008, 19, 325606.	2.6	19
48	Creep of SiC-SiC microcomposites. <i>Journal of the European Ceramic Society</i> , 1999, 19, 2285-2296.	5.7	18
49	Anisotropic networking of carbon black in glass/epoxy composites using electric field. <i>Journal of Composite Materials</i> , 2015, 49, 535-544.	2.4	18
50	Short-term sustained loading of FRP tendonanchor systems. <i>Construction and Building Materials</i> , 1996, 10, 255-266.	7.2	17
51	Multi-physics design and optimization of flexible matrix composite driveshafts. <i>Composite Structures</i> , 2011, 93, 2231-2240.	5.8	17
52	Effect of nanofiller length and orientation distributions on Mode I fracture toughness of unidirectional fiber composites. <i>Journal of Composite Materials</i> , 2016, 50, 1331-1352.	2.4	17
53	Charpy impact energy absorption of 3D printed continuous Kevlar reinforced composites. <i>Journal of Composite Materials</i> , 2021, 55, 1705-1713.	2.4	17
54	Hybrid carbon nanotube - carbon fiber composites for high damping. <i>Composites Science and Technology</i> , 2021, 207, 108712.	7.8	17

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55	Damage Initiation and Growth in Notched Laminates Under Reversed Cyclic Loading. , 1989, , 66-83.		17
56	Design and Testing of Composite Flywheel Rotors. , 1997, , 3-22.		17
57	Design and Manufacturing of Filament Wound Elastomeric Matrix Composite Flywheels. Journal of Reinforced Plastics and Composites, 1997, 16, 488-502.	3.1	15
58	Simplified Analysis of Residual Stresses in In-Situ Cured Hoop-Wound Rings. Journal of Composite Materials, 1998, 32, 1325-1343.	2.4	15
59	A Recalibration of the Crack Width Bond-Dependent Coefficient for GFRP-Reinforced Concrete. Journal of Composites for Construction, 2019, 23, .	3.2	15
60	SEM investigation of fiber fracture in composite laminates. Materials Characterization, 1990, 24, 179-190.	4.4	14
61	Sustained Loading and Temperature Response of Fiber-Reinforced Polymer-Concrete Bond. Transportation Research Record, 2009, 2131, 155-162.	1.9	14
62	A permanent-magnet rotor for a high-temperature superconducting bearing. IEEE Transactions on Magnetics, 1996, 32, 2609-2612.	2.1	13
63	The investigation of carbon-nanotube-based polymers for improved structural damping. , 2004, , .		12
64	High-Temperature Creep and Microstructural Evolution of Chemically Vapor-Deposited Silicon Carbide Fibers. Journal of the American Ceramic Society, 1999, 82, 407-413.	3.8	12
65	Ballistic impact response of carbon/epoxy tubes with variable nanosilica content. Journal of Composite Materials, 2018, 52, 1589-1604.	2.4	12
66	Assessment of anisotropic mechanical properties of a 3D printed carbon whisker reinforced composite. Advanced Composite Materials, 2019, 28, 545-560.	1.9	12
67	Effects of Matrix Toughness on Fatigue Response of Graphite Fiber Composite Laminates. , 1989, , 5-18.		12
68	C-Shape Specimen for Tensile Radial Strength of Thick, Filament-wound Rings. Journal of Composite Materials, 2006, 40, 97-117.	2.4	11
69	Tensile strength characteristics of GFRP bars in concrete beams with work cracks under sustained loading and severe environments. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 934-937.	1.0	11
70	Multi-objective optimal design of composite rotorcraft driveshaft including strain rate and temperature effects. Composite Structures, 2015, 128, 42-53.	5.8	11
71	Indentation damage detection in glass/epoxy composite laminates with electrically tailored conductive nanofiller. Journal of Intelligent Material Systems and Structures, 2016, 27, 679-688.	2.5	11
72	Analysis of Elastic Stresses in Thick, Polar-Orthotropic, C-Shaped Rings. Journal of Composite Materials, 2004, 38, 1619-1638.	2.4	10

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73	Actuation of fluidic flexible matrix composites in structural media. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 269-278.	2.5	10
74	Durability assessment of FRP-concrete bond after sustained load for up to thirteen years. <i>Composites Part B: Engineering</i> , 2021, 224, 109180.	12.0	10
75	FRP Reinforcement: Materials and Manufacturing. , 1993, , 13-58.		10
76	Matrix Toughness, Long-Term Behavior, and Damage Tolerance of Notched Graphite Fiber-Reinforced Composite Materials. , 1990, , 349-370.		9
77	Fluidic flexible matrix composites for autonomous structural tailoring. , 2007, , .		8
78	Durability Assessment of 15- to 20-Year-Old GFRP Bars Extracted from Bridges in the US. I: Selected Bridges, Bar Extraction, and Concrete Assessment. <i>Journal of Composites for Construction</i> , 2021, 25, .	3.2	8
79	Optoelectronic strain measurement for flywheels. <i>Experimental Mechanics</i> , 2002, 42, 237-246.	2.0	7
80	A variable transverse stiffness sandwich structure using fluidic flexible matrix composites (F2MC). , 2008, , .		7
81	Nonlinear micromechanical model of filament-wound composites considering fiber undulation. <i>Mechanics of Composite Materials</i> , 2011, 47, 73-94.	1.4	7
82	Durability Assessment of 15- to 20-Year-Old GFRP Bars Extracted from Bridges in the US. II: GFRP Bar Assessment. <i>Journal of Composites for Construction</i> , 2021, 25, .	3.2	7
83	NDE Engineering in the Materials Life Cycle. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 1991, 113, 163-169.	0.6	6
84	Critical state of imbalanced rotating anisotropic disks with small radial and shear moduli. <i>International Journal of Solids and Structures</i> , 2003, 40, 5219-5227.	2.7	6
85	Damping Characteristics of Carbon Nanotube Based Composites. , 2003, , 1925.		6
86	Assessment of transmission of the shear stress in potted anchors for composite rods 1. Sleeve of constant thickness. <i>Mechanics of Composite Materials</i> , 2009, 45, 217-234.	1.4	6
87	Electrolyte-resistant epoxy for bonding batteries based on sandwich structures. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46059.	2.6	6
88	Estimation of limit strains in disk-type flywheels made of a compliant elastomeric matrix composite undergoing radial creep. <i>Mechanics of Composite Materials</i> , 2000, 36, 55-58.	1.4	5
89	The effect of electrostatic and electrohydrodynamic forces on the chaining of carbon nanofibres in liquid epoxy. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 175402.	2.8	5
90	Damping Characteristics of Carbon Nanotube-Epoxy Composites via Multiscale Analysis. , 2010, , .		5

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91	Advanced Composite Materials Technology for Rotorcraft through the Use of Nanoadditives. Journal of the American Helicopter Society, 2015, 60, 1-10.	0.8	5
92	Compressive strength and stiffness of filament-wound cylinders. Journal of Reinforced Plastics and Composites, 2016, 35, 1543-1553.	3.1	5
93	Effects of Sustained Loading and Temperature on a Concrete–Epoxy Bonded Interface. Journal of Materials in Civil Engineering, 2020, 32, 04020016.	2.9	5
94	Durability of GFRP Reinforcement Bars. , 2011, , 33-36.		5
95	Determination of Effective Ply-level Properties of Filament Wound Composite Tubes Loaded in Compression. Journal of Testing and Evaluation, 2015, 43, 20130159.	0.7	5
96	Using data science to locate nanoparticles in a polymer matrix composite. Composites Science and Technology, 2022, 218, 109205.	7.8	5
97	Durability of externally bonded fiber-reinforced polymer (FRP) composite systems. , 2008, , 292-322.		4
98	Viscoelastic Characterization and Self-Heating Behavior of a Flexible Matrix Composite Driveshaft. Journal of Composite Materials, 2009, 43, 1335-1360.	2.4	4
99	Assessment of transmission of the shear stress in potted anchors for composite rods. 2. Sleeve of variable thickness. Mechanics of Composite Materials, 2009, 45, 381-398.	1.4	4
100	Tailored Fluidic Composites for Stiffness or Volume Change. , 2011, , .		4
101	Three-dimensional elastic behavior of undulating laminas in fiber composites. Journal of Reinforced Plastics and Composites, 2016, 35, 151-164.	3.1	4
102	Design of High-Speed Permanent Magnet Machine for Small Flywheels. , 2003, , .		3
103	Stiffness Shaping for Zero Vibration Fluidic Flexible Matrix Composites. , 2008, , .		3
104	Fracture toughness characterization of nanoreinforced carbon-fiber composite materials for damage mitigation. , 2011, , .		3
105	Vibration damping of a cantilever beam utilizing fluidic flexible matrix composites. Proceedings of SPIE, 2013, , .	0.8	3
106	Structural Damping Model for Composite Rotorcraft Blades with Carbon Nanotube Interlayers. AIAA Journal, 2021, 59, 1539-1547.	2.6	3
107	Effect of Interleaves on the Damage Mechanisms and Residual Strength of Notched Composite Laminates Subjected to Axial Fatigue Loading. , 1993, , 552-574.		3
108	Thermomechanical Loading in Pure Torsion: Test Control and Deformation Behavior. , 1993, , 223-243.		3

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109	Influence of Load Levels on Damage Growth Mechanisms of Notched Composite Materials. , 1990, , 371-389.		3
110	An adaptive time domain deconvolution technique to characterize planar flaws in highly attenuative composites. Journal of Nondestructive Evaluation, 1994, 13, 101-109.	2.4	2
111	Microstructural development of SCS-6 SiC fibers during high temperature creep. Journal of Materials Research, 1998, 13, 1853-1860.	2.6	2
112	A Virtual Containment Strategy for Filament-Wound Composite Flywheel Rotors with Damage Growth. Journal of Composite Materials, 2002, 36, 1103-1120.	2.4	2
113	Analysis of damping characteristics of a viscoelastic polymer filled with randomly oriented single-wall nanotube ropes. , 2006, , .		2
114	Assessment of transmission of the shear stress in potted anchors for composite rods 3. Bipotted anchor. Mechanics of Composite Materials, 2010, 46, 133-146.	1.4	2
115	Comparative study of nanomaterials for interlaminar reinforcement of fiber-composite panels. , 2013, , .		2
116	Evaluation of Millimeter-Size Fluidic Flexible Matrix Composite Tubes. , 2013, , .		2
117	Advanced Grid-Stiffened Composite Shells for Heavy-Lift Helicopter Blade Spars. , 2014, , .		2
118	Experimental Characterization of a Cantilever Beam With a Fluidic Flexible Matrix Composite Vibration Treatment. , 2014, , .		2
119	Fluidic Flexible Matrix Composite Vibration Absorber for a Cantilever Beam. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	2
120	Comparison of woven and stitched out-of-autoclave E-glass/epoxy composites subjected to quasi-static and cyclic tensile loads. Journal of Reinforced Plastics and Composites, 2021, 40, 714-725.	3.1	2
121	Deformation of CVD Silicon Carbide Monofilaments Under Variable Mechanical Loading. Ceramic Engineering and Science Proceedings, 0, , 198-205.	0.1	2
122	Fibrillar Network Adaptive Structure with Ion-transport Actuation. Journal of Intelligent Material Systems and Structures, 0, , .	2.5	2
123	Multiscale Characterization and Modeling of Nanosilica-Reinforced Filament Wound Carbon/Epoxy Composite. Materials Performance and Characterization, 2019, 8, 20180108.	0.3	2
124	A Test Method to Measure the Response of Composite Materials Under Reversed Cyclic Loads. , 0, , 180-180-14.		2
125	Adiabatic Thermoelastic Measurements. , 1989, , 139-146.		2
126	Novel Crash Sled with a Translating Support Mass. Experimental Mechanics, 2022, 62, 715-728.	2.0	2

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127	Processing and properties of low-temperature cure carbon fiber-reinforced bismaleimide composite. Journal of Composite Materials, 2022, 56, 1191-1209.	2.4	2
128	Effects of Matrix Cracking on the Creep of SiC-SiC Microcomposites. Key Engineering Materials, 1999, 164-165, 297-302.	0.4	1
129	Viscoelastic Characterization of High Fiber Content Filament Wound Polyurethane Matrix Composites. Rubber Chemistry and Technology, 1998, 71, 1042-1058.	1.2	1
130	Condition Monitoring of Filament-Wound Composite Flywheels Having Circumferential Cracks. Journal of Spacecraft and Rockets, 2002, 39, 306-313.	1.9	1
131	Design of high-speed permanent magnet machines with anisotropic electromagnetic and structural continuum formulations. , 0, , .		1
132	Some Aspects of Designing Multirim Composite Flywheels. Mechanics of Composite Materials, 2004, 40, 397-408.	1.4	1
133	Durability of GFRP-Concrete Bonded Interfaces. , 2004, , 356.		1
134	Multiscale analysis of the effect of carbon nanotube (CNT) functionalization on damping characteristics of CNT-based composites. Proceedings of SPIE, 2010, , .	0.8	1
135	Assessment of transmission of the shear stress in potted anchors for composite rods: 4. Nonlinear bond behavior between the FRP rod and the potting material. Mechanics of Composite Materials, 2011, 47, 285-300.	1.4	1
136	Experimental Study of Torsional-Bending Coupled Vibration of a Rotor System With a Bladed Disk. , 2013, , .		1
137	Tunable Vibration Absorption of a Cantilever Beam Utilizing Fluidic Flexible Matrix Composites. , 2013, , .		1
138	Fluidic flexible matrix composite damping treatment for a cantilever beam. Journal of Sound and Vibration, 2015, 340, 80-94.	3.9	1
139	Transverse Young's modulus of carbon/glass hybrid fiber composites. Journal of Composite Materials, 2020, 54, 947-960.	2.4	1
140	Crash Sled Testing of Triaxially Braided CFRP for Improved Vehicular Crashworthiness. , 2021, , .		1
141	Methods of Determining the Temperature Dependence of Primary Creep. , 1996, , 9-18.		1
142	DIC Strain Analysis of FRP/Concrete Bond After Sustained Loading. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 47-56.	0.5	1
143	Fatigue resistance of ultra-high-modulus pitch-based carbon fiber/epoxy composites under tensile loading. Journal of Composite Materials, 0, , 002199832110558.	2.4	1
144	<title>On the damping characteristics of polymeric composites with randomly oriented single-walled carbon nanorope fillers</title>. , 2005, 5760, 173.		0

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145	Journal of Composites for Construction Best Paper Awards. Journal of Composites for Construction, 2007, 11, 555-555.	3.2	0
146	2007 Best Paper Awards. Journal of Composites for Construction, 2008, 12, 578-578.	3.2	0
147	Experimental Evaluation of Novel Foam-Filled Energy-Absorbing Composite Tubes. Journal of the American Helicopter Society, 2014, 59, 1-10.	0.8	0
148	Vibration Isolation of a Cantilever Beam Using Fluidic Flexible Matrix Composite Tubes. , 2015, , .		0
149	Rate Effects and Environmental Sensitivity of Textile Energy Absorbers. Journal of the American Helicopter Society, 2015, 60, 1-10.	0.8	0
150	Crack widths during sustained flexural loading of small-scale GFRP reinforced concrete beams. , 2004, , 773-780.		0
151	Innovative Energy Absorbing Composite Tubes Incorporating Extension-Torsion Coupling, Stitch Ripping, and Foam Crushing. , 2010, , 269-278.		0
152	Viscoelastic Model of Anisotropic Flywheels. , 2003, , 75-92.		0