

M C Ray

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,737
citations

23
h-index

38
g-index

72
ext. papers

1,877
ext. citations

2.4
avg, IF

5.34
L-index

#	Paper	IF	Citations
72	Hybrid-Trefftz finite element model for antisymmetric laminated composite plates using a high order shear deformation theory. <i>International Journal of Mechanics and Materials in Design</i> , 2020 , 16, 817-837	2.5	0
71	Size-Dependent elastic response in functionally graded microbeams considering generalized first strain gradient elasticity. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2019 , 72, 273-304	1	3
70	Exact solutions for flexoelectric response in elastic dielectric nanobeams considering generalized constitutive gradient theories. <i>International Journal of Mechanics and Materials in Design</i> , 2019 , 15, 427-445	2.5	8
69	Active Control of Nonlinear Transient Vibration of Laminated Composite Beams Using Triangular SCLD Treatment With Fractional Order Derivative Viscoelastic Model. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	2
68	A novel hybrid-Trefftz finite element for symmetric laminated composite plates. <i>International Journal of Mechanics and Materials in Design</i> , 2019 , 15, 629-646	2.5	3
67	Benchmark analysis of piezoelectric bimorph energy harvesters composed of laminated composite beam substrates. <i>International Journal of Mechanics and Materials in Design</i> , 2019 , 15, 739-755	2.5	4
66	Element-free Galerkin model of nano-beams considering strain gradient elasticity. <i>Acta Mechanica</i> , 2018 , 229, 2765-2786	2.1	18
65	Smart damping of geometrically nonlinear vibrations of composite shells using fractional order derivative viscoelastic constitutive relations. <i>Mechanics of Advanced Materials and Structures</i> , 2018 , 25, 62-78	1.8	13
64	Enhanced magnetoelectric effect in multiferroic composite beams due to flexoelectricity and transverse deformations. <i>International Journal of Mechanics and Materials in Design</i> , 2018 , 14, 461-472	2.5	5
63	Analysis of smart damping of laminated composite beams using mesh free method. <i>International Journal of Mechanics and Materials in Design</i> , 2018 , 14, 359-374	2.5	11
62	Inclusion problem for a generalized strain gradient elastic continuum. <i>Acta Mechanica</i> , 2018 , 229, 3813-3831	2.1	8
61	Effect of nonlocal elasticity on the performance of a flexoelectric layer as a distributed actuator of nanobeams. <i>International Journal of Mechanics and Materials in Design</i> , 2018 , 14, 297-311	2.5	11
60	Active damping of geometrically nonlinear vibrations of sandwich plates with fuzzy fiber reinforced composite facings. <i>International Journal of Dynamics and Control</i> , 2017 , 5, 314-336	1.7	5
59	Analysis of flexoelectric response in nanobeams using nonlocal theory of elasticity. <i>International Journal of Mechanics and Materials in Design</i> , 2017 , 13, 453-467	2.5	18
58	Mesh-free models for static analysis of smart laminated composite beams. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 109, 1804-1820	2.4	2
57	Finite element analysis of laminated composite plates using zeroth-order shear deformation theory. <i>International Journal of Mechanics and Materials in Design</i> , 2016 , 12, 387-400	2.5	5
56	Smart damping of geometrically nonlinear vibrations of functionally graded sandwich plates using 1B piezoelectric composites. <i>Mechanics of Advanced Materials and Structures</i> , 2016 , 23, 652-669	1.8	19

55	Effective Thermal Conductivities of a Novel Fuzzy Fiber-Reinforced Composite Containing Wavy Carbon Nanotubes. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	13
54	Performance of skew or rectangular smart patches for active damping of nonlinear vibrations of skew doubly curved laminated composite shells. <i>International Journal of Mechanics and Materials in Design</i> , 2015 , 11, 173-202	2.5	6
53	Active control of large amplitude vibrations of smart magneto-electro-elastic doubly curved shells. <i>International Journal of Mechanics and Materials in Design</i> , 2014 , 10, 351-378	2.5	41
52	Shear lag analysis of a novel short fuzzy fiber-reinforced composite. <i>Acta Mechanica</i> , 2014 , 225, 2621-2643	3.1	17
51	Effect of Carbon Nanotube Waviness on the Load Transfer Characteristics of Short Fuzzy Fiber-Reinforced Composite. <i>Journal of Nanomechanics & Micromechanics</i> , 2014 , 4,		7
50	Shear Lag Model for Regularly Staggered Short Fuzzy Fiber Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	17
49	Exact Solutions for Flexoelectric Response in Nanostructures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	30
48	Active Structural-Acoustic Control of Laminated Composite Truncated Conical Shells Using Smart Damping Treatment. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013 , 135,	1.6	5
47	Control of geometrically nonlinear vibrations of skew laminated composite plates using skew or rectangular 1B piezoelectric patches. <i>International Journal of Mechanics and Materials in Design</i> , 2013 , 9, 325-354	2.5	6
46	Smart damping of laminated fuzzy fiber reinforced composite shells using 1B piezoelectric composites. <i>Smart Materials and Structures</i> , 2013 , 22, 105001	3.4	35
45	Active control of geometrically nonlinear transient vibrations of laminated composite cylindrical panels using piezoelectric fiber reinforced composite. <i>Acta Mechanica</i> , 2013 , 224, 1-15	2.1	22
44	Active constrained layer damping of geometrically nonlinear vibration of rotating composite beams using 1-3 piezoelectric composite. <i>International Journal of Mechanics and Materials in Design</i> , 2013 , 9, 83-104	2.5	22
43	Smart control of nonlinear vibrations of doubly curved functionally graded laminated composite shells under a thermal environment using 1B piezoelectric composites. <i>International Journal of Mechanics and Materials in Design</i> , 2013 , 9, 253-280	2.5	11
42	Effect of Carbon Nanotube Waviness on the Elastic Properties of the Fuzzy Fiber Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	33
41	Thermoelastic Properties of a Novel Fuzzy Fiber-Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	11
40	Active Constrained Layer Damping of Smart Skew Laminated Composite Plates Using 1B Piezoelectric Composites. <i>Journal of Composites</i> , 2013 , 2013, 1-17		12
39	Active constrained layer damping of smart laminated composite sandwich plates using 1B piezoelectric composites. <i>International Journal of Mechanics and Materials in Design</i> , 2012 , 8, 197-218	2.5	23
38	Active constrained layer damping of geometrically nonlinear vibrations of smart laminated composite sandwich plates using 1B piezoelectric composites. <i>International Journal of Mechanics and Materials in Design</i> , 2012 , 8, 359-380	2.5	17

37	SMART CONTROL OF NONLINEAR VIBRATIONS OF LAMINATED PLATES USING ACTIVE FIBER COMPOSITES. <i>International Journal of Structural Stability and Dynamics</i> , 2012 , 12, 1250050	1.9	7
36	Active Damping of Nonlinear Vibrations of Functionally Graded Laminated Composite Plates using Vertically/Obliquely Reinforced 1-3 Piezoelectric Composite. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2012 , 134,	1.6	5
35	Active damping of geometrically nonlinear vibrations of laminated composite shallow shells using vertically/obliquely reinforced 1-3 piezoelectric composites. <i>International Journal of Mechanics and Materials in Design</i> , 2011 , 7, 29-44	2.5	13
34	Micromechanical analysis of fuzzy fiber reinforced composites. <i>International Journal of Mechanics and Materials in Design</i> , 2011 , 7, 149-166	2.5	78
33	Active damping of geometrically nonlinear vibrations of laminated composite plates using vertically reinforced 1-3 piezoelectric composites. <i>Acta Mechanica</i> , 2011 , 222, 363-380	2.1	21
32	The concept of a novel hybrid smart composite reinforced with radially aligned zigzag carbon nanotubes on piezoelectric fibers. <i>Smart Materials and Structures</i> , 2010 , 19, 035008	3.4	11
31	Smart damping of geometrically nonlinear vibrations of laminated composite beams using vertically reinforced 1B piezoelectric composites. <i>Smart Materials and Structures</i> , 2010 , 19, 075020	3.4	25
30	Active damping of laminated thin cylindrical composite panels using vertically/obliquely reinforced 1B piezoelectric composites. <i>Acta Mechanica</i> , 2010 , 209, 201-218	2.1	10
29	A shear lag model of Piezoelectric composite reinforced with carbon nanotubes-coated Piezoelectric fibers. <i>International Journal of Mechanics and Materials in Design</i> , 2010 , 6, 147-155	2.5	11
28	Effective Properties of Carbon Nanotube and Piezoelectric Fiber Reinforced Hybrid Smart Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2009 , 76,	2.7	35
27	Theoretical and experimental investigations on the active structural-acoustic control of a thin plate using a vertically reinforced 1-3 piezoelectric composite. <i>Smart Materials and Structures</i> , 2009 , 18, 015012	3.4	16
26	Active structural-acoustic control of laminated composite plates using vertically/obliquely reinforced 1B piezoelectric composite patch. <i>International Journal of Mechanics and Materials in Design</i> , 2009 , 5, 123-141	2.5	11
25	Control of Nonlinear Vibrations of Functionally Graded Plates Using 1-3 Piezoelectric Composite. <i>AIAA Journal</i> , 2009 , 47, 1421-1434	2.1	6
24	Nonlinear Analysis of Smart Cross-ply Composite Plates Integrated with a Distributed Piezoelectric Fiber Reinforced Composite Actuator. <i>Mechanics of Advanced Materials and Structures</i> , 2008 , 15, 40-52	1.8	16
23	Active constrained layer damping of geometrically nonlinear vibrations of functionally graded plates using piezoelectric fiber-reinforced composites. <i>Smart Materials and Structures</i> , 2008 , 17, 025012	3.4	22
22	Smart constrained layer damping of functionally graded shells using vertically/obliquely reinforced 1B piezocomposite under a thermal environment. <i>Smart Materials and Structures</i> , 2008 , 17, 055007	3.4	9
21	Finite element analysis for geometrically nonlinear deformations of smart functionally graded plates using vertically reinforced 1-3 piezoelectric composite. <i>International Journal of Mechanics and Materials in Design</i> , 2008 , 4, 239-253	2.5	6
20	On the Use of Vertically Reinforced 1-3 Piezoelectric Composites for Hybrid Damping of Laminated Composite Plates. <i>Mechanics of Advanced Materials and Structures</i> , 2007 , 14, 245-261	1.8	63

19	Geometrically nonlinear analysis of antisymmetric angle-ply smart composite plates integrated with a layer of piezoelectric fiber reinforced composite. <i>Smart Materials and Structures</i> , 2007 , 16, 754-762	3.4	9
18	A single-walled carbon nanotube reinforced 1B piezoelectric composite for active control of smart structures. <i>Smart Materials and Structures</i> , 2007 , 16, 1936-1947	3.4	36
17	Vertically Reinforced 1-3 Piezoelectric Composites for Active Damping of Functionally Graded Plates. <i>AIAA Journal</i> , 2007 , 45, 1779-1784	2.1	27
16	Exact Solutions for the Functionally Graded Plates Integrated With a Layer of Piezoelectric Fiber-Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006 , 73, 622-632	2.7	41
15	Nonlinear analysis of smart functionally graded plates integrated with a layer of piezoelectric fiber reinforced composite. <i>Smart Materials and Structures</i> , 2006 , 15, 1595-1604	3.4	20
14	The performance of vertically reinforced 1B piezoelectric composites in active damping of smart structures. <i>Smart Materials and Structures</i> , 2006 , 15, 631-641	3.4	69
13	Exact Solutions for the Analysis of Piezoelectric Fiber Reinforced Composites as Distributed Actuators for Smart Composite Plates. <i>International Journal of Mechanics and Materials in Design</i> , 2005 , 2, 81-97	2.5	10
12	Performance of Smart Damping Treatment Using Piezoelectric Fiber-Reinforced Composites. <i>AIAA Journal</i> , 2005 , 43, 184-193	2.1	35
11	Effect of Delamination on Active Constrained Layer Damping of Smart Laminated Composite Beams. <i>AIAA Journal</i> , 2004 , 42, 1219-1226	2.1	16
10	Active control of laminated composite beams using a piezoelectric fiber reinforced composite layer. <i>Smart Materials and Structures</i> , 2004 , 13, 146-152	3.4	34
9	Finite Element Analysis of Smart Structures Containing Piezoelectric Fiber-Reinforced Composite Actuator. <i>AIAA Journal</i> , 2004 , 42, 1398-1405	2.1	56
8	Optimal control of thin circular cylindrical laminated composite shells using active constrained layer damping treatment. <i>Smart Materials and Structures</i> , 2004 , 13, 64-72	3.4	59
7	Zeroth-Order Shear Deformation Theory for Laminated Composite Plates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2003 , 70, 374-380	2.7	27
6	Optimal Control of Laminated Shells Using Piezoelectric Sensor and Actuator Layers. <i>AIAA Journal</i> , 2003 , 41, 1151-1157	2.1	78
5	Effective Coefficients of Piezoelectric Fiber-Reinforced Composites. <i>AIAA Journal</i> , 2003 , 41, 704-710	2.1	133
4	Optimal Control of Laminated Plate with Piezoelectric Sensor and Actuator Layers. <i>AIAA Journal</i> , 1998 , 36, 2204-2208	2.1	38
3	Finite element model for active control of intelligent structures. <i>AIAA Journal</i> , 1996 , 34, 1885-1893	2.1	73
2	Exact solutions for static analysis of intelligent structures. <i>AIAA Journal</i> , 1993 , 31, 1684-1691	2.1	147

1 Three-dimensional exact elasticity solutions for antisymmetric angle-ply laminated composite plates. *International Journal of Mechanics and Materials in Design*,1

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