

M C Ray

List of Publications by Year in descending order

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72
papers

2,020
citations

236833

25
h-index

276775

41
g-index

72
all docs

72
docs citations

72
times ranked

796
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact solutions for static analysis of intelligent structures. AIAA Journal, 1993, 31, 1684-1691.	1.5	160
2	Effective Coefficients of Piezoelectric Fiber-Reinforced Composites. AIAA Journal, 2003, 41, 704-710.	1.5	156
3	Micromechanical analysis of fuzzy fiber reinforced composites. International Journal of Mechanics and Materials in Design, 2011, 7, 149-166.	1.7	88
4	Optimal Control of Laminated Shells Using Piezoelectric Sensor and Actuator Layers. AIAA Journal, 2003, 41, 1151-1157.	1.5	83
5	Finite element model for active control of intelligent structures. AIAA Journal, 1996, 34, 1885-1893.	1.5	82
6	The performance of vertically reinforced 1-3 piezoelectric composites in active damping of smart structures. Smart Materials and Structures, 2006, 15, 631-641.	1.8	80
7	On the Use of Vertically Reinforced 1-3 Piezoelectric Composites for Hybrid Damping of Laminated Composite Plates. Mechanics of Advanced Materials and Structures, 2007, 14, 245-261.	1.5	70
8	Finite Element Analysis of Smart Structures Containing Piezoelectric Fiber-Reinforced Composite Actuator. AIAA Journal, 2004, 42, 1398-1405.	1.5	64
9	Optimal control of thin circular cylindrical laminated composite shells using active constrained layer damping treatment. Smart Materials and Structures, 2004, 13, 64-72.	1.8	63
10	Active control of large amplitude vibrations of smart magneto-electro-elastic doubly curved shells. International Journal of Mechanics and Materials in Design, 2014, 10, 351-378.	1.7	49
11	A single-walled carbon nanotube reinforced 1-3 piezoelectric composite for active control of smart structures. Smart Materials and Structures, 2007, 16, 1936-1947.	1.8	45
12	Smart damping of laminated fuzzy fiber reinforced composite shells using 1-3 piezoelectric composites. Smart Materials and Structures, 2013, 22, 105001.	1.8	44
13	Exact Solutions for the Functionally Graded Plates Integrated With a Layer of Piezoelectric Fiber-Reinforced Composite. Journal of Applied Mechanics, Transactions ASME, 2006, 73, 622-632.	1.1	43
14	Optimal Control of Laminated Plate with Piezoelectric Sensor and Actuator Layers. AIAA Journal, 1998, 36, 2204-2208.	1.5	42
15	Effective Properties of Carbon Nanotube and Piezoelectric Fiber Reinforced Hybrid Smart Composites. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	42
16	Performance of Smart Damping Treatment Using Piezoelectric Fiber-Reinforced Composites. AIAA Journal, 2005, 43, 184-193.	1.5	38
17	Effect of Carbon Nanotube Waviness on the Elastic Properties of the Fuzzy Fiber Reinforced Composites. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	38
18	Active control of laminated composite beams using a piezoelectric fiber reinforced composite layer. Smart Materials and Structures, 2004, 13, 146-152.	1.8	36

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19	Zeroth-Order Shear Deformation Theory for Laminated Composite Plates. Journal of Applied Mechanics, Transactions ASME, 2003, 70, 374-380.	1.1	35
20	Exact Solutions for Flexoelectric Response in Nanostructures. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	1.1	33
21	Active control of geometrically nonlinear transient vibrations of laminated composite cylindrical panels using piezoelectric fiber reinforced composite. Acta Mechanica, 2013, 224, 1-15.	1.1	28
22	Shear Lag Model for Regularly Staggered Short Fuzzy Fiber Reinforced Composite. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	1.1	28
23	Vertically Reinforced 1-3 Piezoelectric Composites for Active Damping of Functionally Graded Plates. AIAA Journal, 2007, 45, 1779-1784.	1.5	27
24	Smart damping of geometrically nonlinear vibrations of laminated composite beams using vertically reinforced 1-3 piezoelectric composites. Smart Materials and Structures, 2010, 19, 075020.	1.8	27
25	Active damping of geometrically nonlinear vibrations of laminated composite plates using vertically reinforced 1-3 piezoelectric composites. Acta Mechanica, 2011, 222, 363-380.	1.1	27
26	Active constrained layer damping of smart laminated composite sandwich plates using 1-3 piezoelectric composites. International Journal of Mechanics and Materials in Design, 2012, 8, 197-218.	1.7	27
27	Active constrained layer damping of geometrically nonlinear vibration of rotating composite beams using 1-3 piezoelectric composite. International Journal of Mechanics and Materials in Design, 2013, 9, 83-104.	1.7	27
28	Shear lag analysis of a novel short fuzzy fiber-reinforced composite. Acta Mechanica, 2014, 225, 2621-2643.	1.1	25
29	Active constrained layer damping of geometrically nonlinear vibrations of functionally graded plates using piezoelectric fiber-reinforced composites. Smart Materials and Structures, 2008, 17, 025012.	1.8	24
30	Effective Thermal Conductivities of a Novel Fuzzy Fiber-Reinforced Composite Containing Wavy Carbon Nanotubes. Journal of Heat Transfer, 2015, 137, .	1.2	23
31	Nonlinear analysis of smart functionally graded plates integrated with a layer of piezoelectric fiber reinforced composite. Smart Materials and Structures, 2006, 15, 1595-1604.	1.8	22
32	Analysis of flexoelectric response in nanobeams using nonlocal theory of elasticity. International Journal of Mechanics and Materials in Design, 2017, 13, 453-467.	1.7	21
33	Active constrained layer damping of geometrically nonlinear vibrations of smart laminated composite sandwich plates using 1-3 piezoelectric composites. International Journal of Mechanics and Materials in Design, 2012, 8, 359-380.	1.7	20
34	Smart damping of geometrically nonlinear vibrations of functionally graded sandwich plates using 1-3 piezoelectric composites. Mechanics of Advanced Materials and Structures, 2016, 23, 652-669.	1.5	20
35	Theoretical and experimental investigations on the active structural acoustic control of a thin plate using a vertically reinforced 1-3 piezoelectric composite. Smart Materials and Structures, 2009, 18, 015012.	1.8	19
36	Element-free Galerkin model of nano-beams considering strain gradient elasticity. Acta Mechanica, 2018, 229, 2765-2786.	1.1	19

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37	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.	1.5	19
38	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.	1.5	17
39	Effect of Delamination on Active Constrained Layer Damping of Smart Laminated Composite Beams. <i>AAAA Journal</i> , 2004, 42, 1219-1226.	1.5	16
40	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.	1.7	15
41	Thermoelastic Properties of a Novel Fuzzy Fiber-Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	15
42	Smart control of nonlinear vibrations of doubly curved functionally graded laminated composite shells under a thermal environment using 1â€³ piezoelectric composites. <i>International Journal of Mechanics and Materials in Design</i> , 2013, 9, 253-280.	1.7	14
43	Active Constrained Layer Damping of Smart Skew Laminated Composite Plates Using 1â€³ Piezoelectric Composites. <i>Journal of Composites</i> , 2013, 2013, 1-17.	0.8	14
44	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.	1.7	14
45	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.	1.7	14
46	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.	1.8	13
47	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.	1.7	13
48	Active structural-acoustic control of laminated composite plates using vertically/obliquely reinforced 1â€³ piezoelectric composite patch. <i>International Journal of Mechanics and Materials in Design</i> , 2009, 5, 123-141.	1.7	12
49	Smart constrained layer damping of functionally graded shells using vertically/obliquely reinforced 1â€³ piezocomposite under a thermal environment. <i>Smart Materials and Structures</i> , 2008, 17, 055007.	1.8	11
50	Active damping of laminated thin cylindrical composite panels using vertically/obliquely reinforced 1â€³ piezoelectric composites. <i>Acta Mechanica</i> , 2010, 209, 201-218.	1.1	11
51	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.	1.7	11
52	Control of geometrically nonlinear vibrations of skew laminated composite plates using skew or rectangular 1â€³ piezoelectric patches. <i>International Journal of Mechanics and Materials in Design</i> , 2013, 9, 325-354.	1.7	10
53	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.	1.8	9
54	Effect of Carbon Nanotube Waviness on the Load Transfer Characteristics of Short Fuzzy Fiber-Reinforced Composite. <i>Journal of Nanomechanics & Micromechanics</i> , 2014, 4, .	1.4	9

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55	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, 427-446.	1.7	9
56	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.	1.7	9
57	Control of Nonlinear Vibrations of Functionally Graded Plates Using 1-3 Piezoelectric Composite. <i>AIAA Journal</i> , 2009, 47, 1421-1434.	1.5	8
58	SMART CONTROL OF NONLINEAR VIBRATIONS OF LAMINATED PLATES USING ACTIVE FIBER COMPOSITES. <i>International Journal of Structural Stability and Dynamics</i> , 2012, 12, 1250050.	1.5	8
59	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, .	1.0	8
60	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.	1.7	8
61	Inclusion problem for a generalized strain gradient elastic continuum. <i>Acta Mechanica</i> , 2018, 229, 3813-3831.	1.1	8
62	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.	1.7	7
63	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.	1.7	6
64	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.	1.7	6
65	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.	1.5	6
66	Three-dimensional exact elasticity solutions for antisymmetric angle-ply laminated composite plates. <i>International Journal of Mechanics and Materials in Design</i> , 2021, 17, 767-782.	1.7	6
67	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, .	1.0	5
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.	1.7	4
69	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.	0.5	3
70	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, .	0.9	3
71	Mesh-free models for static analysis of smart laminated composite beams. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 109, 1804-1820.	1.5	2
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.	1.7	2