Shaker A Meguid

List of Publications by Year in descending order

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87888 106344 5,252 167 38 65 citations g-index h-index papers 171 171 171 3822 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Nonlinear analysis of functionally graded plates and shallow shells. International Journal of Solids and Structures, 2001, 38, 7409-7421.	2.7	308
2	Nanomechanics of single and multiwalled carbon nanotubes. Physical Review B, 2004, 69, .	3.2	298
3	Tunneling resistance and its effect on the electrical conductivity of carbon nanotube nanocomposites. Journal of Applied Physics, 2012, 111, .	2.5	230
4	Nonlinear free vibration behavior of functionally graded plates. Journal of Sound and Vibration, 2006, 289, 595-611.	3.9	157
5	Recent Developments in Multifunctional Nanocomposites Using Carbon Nanotubes. Applied Mechanics Reviews, 2010, 63, .	10.1	148
6	Multiscale modeling of carbon nanotube epoxy composites. Polymer, 2015, 70, 149-160.	3.8	138
7	A continuum model with a percolation threshold and tunneling-assisted interfacial conductivity for carbon nanotube-based nanocomposites. Journal of Applied Physics, 2014, 115, .	2.5	133
8	Modeling electrical conductivities of nanocomposites with aligned carbon nanotubes. Nanotechnology, 2011, 22, 485704.	2.6	122
9	A novel approach to predict the electrical conductivity of multifunctional nanocomposites. Mechanics of Materials, 2012, 46, 129-138.	3.2	110
10	FE modelling of deformation localization in metallic foams. Finite Elements in Analysis and Design, 2002, 38, 631-643.	3.2	102
11	On the Elastic Field of a Shpherical Inhomogeneity with an Imperfectly Bonded Interface. Journal of Elasticity, 1997, 46, 91-113.	1.9	100
12	Development of novel superhydrophobic coatings using siloxane-modified epoxy nanocomposites. Chemical Engineering Journal, 2020, 398, 125403.	12.7	100
13	Multiscale modeling of the nonlinear response of nano-reinforced polymers. Acta Mechanica, 2011, 217, 1-16.	2.1	89
14	On the electroelastic behaviour of a thin piezoelectric actuator attached to an infinite host structure. International Journal of Solids and Structures, 2000, 37, 3231-3251.	2.7	85
15	Differences in osseointegration rate due to implant surface geometry can be explained by local tissue strains. Journal of Orthopaedic Research, 2001, 19, 187-194.	2.3	74
16	Thermomechanical postbuckling analysis of functionally graded plates and shallow cylindrical shells. Acta Mechanica, 2003, 165, 99-115.	2.1	71
17	Percolation threshold and electrical conductivity of a two-phase composite containing randomly oriented ellipsoidal inclusions. Journal of Applied Physics, 2011, 110, .	2.5	71
18	Multiscale modeling of the effect of waviness and agglomeration of CNTs on the elastic properties of nanocomposites. Computational Materials Science, 2016, 117, 195-204.	3.0	68

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19	On the dynamic propagation of a finite crack in functionally graded materials. Engineering Fracture Mechanics, 2002, 69, 1753-1768.	4.3	65
20	Nonlinear finite element analysis of the crush behaviour of functionally graded foam-filled columns. Finite Elements in Analysis and Design, 2012, 61, 50-59.	3.2	65
21	Analysis of Conducting Rigid Inclusion at the Interface of Two Dissimilar Piezoelectric Materials. Journal of Applied Mechanics, Transactions ASME, 1998, 65, 76-84.	2.2	63
22	Atomistic-based continuum modeling of the nonlinear behavior of carbon nanotubes. Acta Mechanica, 2010, 212, 167-179.	2.1	63
23	A General Treatment of the Elastic Field of an Elliptical Inhomogeneity Under Antiplane Shear. Journal of Applied Mechanics, Transactions ASME, 1992, 59, S131-S135.	2.2	62
24	Multiscale micromechanical modeling of the constitutive response of carbon nanotube-reinforced structural adhesives. International Journal of Solids and Structures, 2014, 51, 2575-2589.	2.7	58
25	Molecular dynamics simulations of the effect of waviness and agglomeration of CNTs on interface strength of thermoset nanocomposites. Physical Chemistry Chemical Physics, 2017, 19, 4426-4434.	2.8	55
26	On the dynamic crack propagation in an interface with spatially varying elastic properties. International Journal of Fracture, 1995, 69, 87-99.	2.2	54
27	Mechanical regulation of localized and appositional bone formation around bone-interfacing implants. Journal of Biomedical Materials Research Part B, 2001, 55, 63-71.	3.1	52
28	Effect of carbon nanotube waviness on active damping of laminated hybrid composite shells. Acta Mechanica, 2015, 226, 2035-2052.	2.1	52
29	Dynamic antiplane behaviour of interacting cracks in a piezoelectric medium. International Journal of Fracture, 1998, 91, 391-403.	2.2	50
30	On the modelling of smooth contact surfaces using cubic splines. International Journal for Numerical Methods in Engineering, 2001, 50, 953-967.	2.8	49
31	Effect of carbon nanotube geometry upon tunneling assisted electrical network in nanocomposites. Journal of Applied Physics, 2013, 113, .	2.5	49
32	Piezoelectricity of 2D nanomaterials: characterization, properties, and applications. Semiconductor Science and Technology, 2017, 32, 043006.	2.0	49
33	Mechanical performance of integrally bonded copper coatings for the long term disposal of used nuclear fuel. Nuclear Engineering and Design, 2015, 293, 403-412.	1.7	48
34	Transient three dimensional finite element analysis of a bird striking a fan blade. International Journal of Mechanics and Materials in Design, 2008, 4, 79-96.	3.0	46
35	Finite Element Modeling of a Bird Striking an Engine Fan Blade. Journal of Aircraft, 2007, 44, 583-596.	2.4	45
36	Performance assessment of the suspended-load backpack. International Journal of Mechanics and Materials in Design, 2011, 7, 111-121.	3.0	44

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37	Analysis of a circular arc-crack in piezoelectric materials. International Journal of Fracture, 1997, 84, 143-158.	2.2	42
38	Comprehensive molecular dynamics studies of the ballistic resistance of multilayer graphene-polymer composite. Computational Materials Science, 2019, 170, 109171.	3.0	40
39	Multifunctional Silica–Silicone Nanocomposite with Regenerative Superhydrophobic Capabilities. ACS Applied Materials & Samp; Interfaces, 2019, 11, 42827-42837.	8.0	39
40	Potential of combating transmission of COVID-19 using novel self-cleaning superhydrophobic surfaces: part $la\in$ "protection strategies against fomites. International Journal of Mechanics and Materials in Design, 2020, 16, 423-431.	3.0	39
41	Elastodynamic analysis of low tension cables using a new curved beam element. International Journal of Solids and Structures, 2006, 43, 1490-1504.	2.7	38
42	Development and Validation of Novel FE Models for 3D Analysis of Peening of Strain-Rate Sensitive Materials. Journal of Engineering Materials and Technology, Transactions of the ASME, 2007, 129, 271-283.	1.4	38
43	Coupling atomistics and continuum in solids: status, prospects, and challenges. International Journal of Mechanics and Materials in Design, 2009, 5, 79-110.	3.0	36
44	Complete morphing wing design using flexible-rib system. International Journal of Mechanics and Materials in Design, 2017, 13, 159-171.	3.0	36
45	Two-Phase Potentials for the Treatment of an Elastic Inclusion in Plane Thermoelasticity. Journal of Applied Mechanics, Transactions ASME, 1995, 62, 7-12.	2.2	35
46	THEORETICAL AND EXPERIMENTAL STUDIES OF FRETTING-INITIATED FATIGUE FAILURE OF AEROENGINE COMPRESSOR DISCS. Fatigue and Fracture of Engineering Materials and Structures, 1994, 17, 539-550.	3.4	33
47	Tailoring fracture strength of graphene. Computational Materials Science, 2018, 141, 114-121.	3.0	33
48	Optimal shape control of functionally graded smart plates using genetic algorithms. Computational Mechanics, 2004, 33, 245-253.	4.0	31
49	On the FE Modeling of Closed-cell Aluminum Foam. International Journal of Mechanics and Materials in Design, 2005, 2, 23-34.	3.0	30
50	Vibration analysis of a new curved beam element. Journal of Sound and Vibration, 2008, 309, 86-95.	3.9	30
51	Electro-dynamic analysis of smart nanoclay-reinforced plates with integrated piezoelectric layers. Applied Mathematical Modelling, 2019, 75, 267-278.	4.2	30
52	Interacting circular inhomogeneities in plane elastostatics. Acta Mechanica, 1993, 99, 49-60.	2.1	29
53	Bio-inspired wing morphing for unmanned aerial vehicles using intelligent materials. International Journal of Mechanics and Materials in Design, 2012, 8, 71-79.	3.0	29
54	Unified nonlinear quasistatic and dynamic analysis of RF-MEMS switches. Acta Mechanica, 2013, 224, 1741-1755.	2.1	29

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55	Closed form solutions for partially debonded circular inclusion in piezoelectric materials. Acta Mechanica, 1999, 137, 167-181.	2.1	28
56	On the layered micromechanical three-dimensional finite element modelling of foam-filled columns. Finite Elements in Analysis and Design, 2004, 40, 1035-1057.	3.2	28
57	Shear Lag Model for Regularly Staggered Short Fuzzy Fiber Reinforced Composite. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	28
58	Electro-mechanical performance of smart piezoelectric nanocomposite plates reinforced by zinc oxide and gallium nitride nanowires. Mechanics Based Design of Structures and Machines, 2022, 50, 1954-1967.	4.7	28
59	On the effect of the release of residual stresses due to near-tip microcracking. International Journal of Fracture, 1991, 52, 257-274.	2.2	28
60	Snap-through buckling of initially curved microbeam subject to an electrostatic force. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150072.	2.1	25
61	On the parameters which govern the symmetric snap-through buckling behavior of an initially curved microbeam. International Journal of Solids and Structures, 2015, 66, 77-87.	2.7	24
62	Effect of initial surface finish on effectiveness of shot peening treatment using enhanced periodic cell model. International Journal of Mechanics and Materials in Design, 2015, 11, 463-478.	3.0	24
63	Hydrogen diffusion and its relevance to intergranular cracking in nickel. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 105-112.	1.4	23
64	Effects of incidence angle in bird strike on integrity of aero-engine fan blade. International Journal of Crashworthiness, 2009, 14, 295-308.	1.9	23
65	A novel finite element for treating inhomogeneous solids. International Journal for Numerical Methods in Engineering, 1995, 38, 1579-1592.	2.8	22
66	Nonlinear analysis of thermally and electrically actuated functionally graded material microbeam. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20130473.	2.1	22
67	Modeling size-dependent thermoelastic energy dissipation of graphene nanoresonators using nonlocal elasticity theory. Acta Mechanica, 2019, 230, 771-785.	2.1	22
68	Thermo-mechanical behavior of a viscoelastic FGMs coating containing an interface crack. International Journal of Fracture, 2010, 164, 15-29.	2.2	21
69	A critical study of the parameters governing molecular dynamics simulations of nanostructured materials. Computational Materials Science, 2018, 153, 183-199.	3.0	21
70	Effect of electromechanical coupling on the dynamic interaction of cracks in piezoelectric materials. Acta Mechanica, 2000, 143, 1-15.	2.1	20
71	Composition-dependent buckling behaviour of hybrid boron nitride–carbon nanotubes. Physical Chemistry Chemical Physics, 2015, 17, 12796-12803.	2.8	20
72	Atomistic modeling of out-of-plane deformation of a propagating Griffith crack in graphene. Acta Mechanica, 2017, 228, 3063-3075.	2.1	20

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73	Modeling of CNT-reinforced nanocomposite with complex morphologies using modified embedded finite element technique. Composite Structures, 2019, 227, 111329.	5.8	20
74	A NOVEL FINITE ELEMENT APPROACH TO FRICTIONAL CONTACT PROBLEMS. International Journal for Numerical Methods in Engineering, 1996, 39, 3889-3902.	2.8	19
75	On the dynamic behaviour of a piezoelectric laminate with multiple interfacial collinear cracks. International Journal of Solids and Structures, 2002, 39, 2477-2494.	2.7	19
76	Dynamic behavior of novel nanocomposite diaphragm in piezoelectrically-actuated micropump. Smart Materials and Structures, 2019, 28, 105022.	3.5	19
77	Relaxation of Peening Residual Stresses Due to Cyclic Thermo-Mechanical Overload. Journal of Engineering Materials and Technology, Transactions of the ASME, 2005, 127, 170-178.	1.4	18
78	Advances in computational contact mechanics. International Journal of Mechanics and Materials in Design, 2008, 4, 419-443.	3.0	18
79	Efficient multi-level modeling technique for determining effective board drop reliability of PCB assembly. Microelectronics Reliability, 2013, 53, 975-984.	1.7	18
80	A new highâ€frequency analysis of coatings using leaky Lamb waves. Journal of the Acoustical Society of America, 1993, 94, 2954-2962.	1.1	17
81	Diffraction of SH-Wave by Interacting Matrix Crack and an Inhomogeneity. Journal of Applied Mechanics, Transactions ASME, 1997, 64, 568-575.	2.2	17
82	On the elastodynamic solution of frictional contact problems using variational inequalities. International Journal for Numerical Methods in Engineering, 2001, 50, 611-627.	2.8	17
83	Accurate modeling of contact using cubic splines. Finite Elements in Analysis and Design, 2002, 38, 337-352.	3.2	17
84	Characterization and atomistic modeling of the effect of water absorption on the mechanical properties of thermoset polymers. Acta Mechanica, 2018, 229, 745-761.	2.1	17
85	Development of novel icephobic surfaces using siloxane-modified epoxy nanocomposites. Chemical Engineering Journal, 2022, 433, 133637.	12.7	17
86	EFFECT OF PARTIAL-COVERAGE UPON THE FATIGUE FRACTURE BEHAVIOUR OF PEENED COMPONENTS. Fatigue and Fracture of Engineering Materials and Structures, 1991, 14, 515-530.	3.4	16
87	Crush behaviour of foam-filled thin-walled conical frusta: analytical, numerical and experimental studies. Acta Mechanica, 2016, 227, 3391-3406.	2.1	16
88	A new strategy for the solution of frictional contact problems. International Journal for Numerical Methods in Engineering, 1998, 43, 1053-1068.	2.8	15
89	Optimal time integration parameters for elastodynamic contact problems. Communications in Numerical Methods in Engineering, 2001, 17, 379-384.	1.3	15
90	Modeling the pullout test of nanoreinforced metallic matrices using molecular dynamics. Acta Mechanica, 2014, 225, 1267-1275.	2.1	15

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91	Analytical modeling of the coupled nonlinear free vibration response of a rotating blade in a gas turbine engine. Acta Mechanica, 2018, 229, 3355-3373.	2.1	15
92	Buckling of microtubules: An insight by molecular and continuum mechanics. Applied Physics Letters, 2014, 105, 173704.	3.3	14
93	Finite Element Modeling of Shot Peening Residual Stress Relaxation in Turbine Disk Assemblies. Journal of Engineering Materials and Technology, Transactions of the ASME, 2015, 137, .	1.4	14
94	Kinematically admissible folding mechanisms for the progressive collapse of foam filled conical frusta. International Journal of Mechanics and Materials in Design, 2018, 14, 105-126.	3.0	14
95	Large deformation analysis of contact in degenerate shell elements. International Journal for Numerical Methods in Engineering, 1998, 43, 1127-1141.	2.8	13
96	The transient response of bonded piezoelectric and elastic half space with multiple interfacial collinear cracks. Acta Mechanica, 2002, 159, 11-27.	2.1	13
97	Influence of cellular imperfections on mechanical response of metallic foams. International Journal of Crashworthiness, 2010, 15, 357-367.	1.9	13
98	Atomistic modelling of crack-inclusion interaction in graphene. Engineering Fracture Mechanics, 2018, 195, 92-103.	4.3	13
99	Synergistic effect of surface-flexoelectricity on electromechanical response of BN-based nanobeam. International Journal of Mechanics and Materials in Design, 2022, 18, 3-19.	3.0	13
100	Modelling and analysis of dynamic interaction between piezoelectric actuators. International Journal of Solids and Structures, 2001, 38, 2803-2820.	2.7	12
101	Toughening mechanisms in multiphase nanocomposites. International Journal of Mechanics and Materials in Design, 2013, 9, 115-125.	3.0	12
102	Dynamic behavior of novel micro fuel pump using zinc oxide nanocomposite diaphragm. Sensors and Actuators A: Physical, 2019, 297, 111528.	4.1	12
103	Photoelastic analysis of the singular stress field in a bimaterial wedge. Experimental Mechanics, 2000, 40, 68-74.	2.0	11
104	Three-dimensional finite element analysis of saddle supported pressure vessels. International Journal of Mechanical Sciences, 2001, 43, 1229-1242.	6.7	11
105	Flutter boundary prediction of an adaptive morphing wing for unmanned aerial vehicle. International Journal of Mechanics and Materials in Design, 2011, 7, 307-312.	3.0	11
106	3D FE modeling of oblique shot peening using a new periodic cell. International Journal of Mechanics and Materials in Design, 2014, 10, 133-144.	3.0	11
107	Asymmetric bifurcation of thermally and electrically actuated functionally graded material microbeam. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150597.	2.1	11
108	Effect of seat belt and head restraint on occupant's response during rear-end collision. International Journal of Mechanics and Materials in Design, 2018, 14, 231-242.	3.0	11

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109	Partially debonded circular inclusion in one-dimensional quasicrystal material with piezoelectric effect. International Journal of Mechanics and Materials in Design, 2020, 16, 749-766.	3.0	11
110	Dynamic behaviour of pretwisted metal matrix composite blades. Composite Structures, 2021, 268, 113947.	5.8	11
111	A new finite element for treating plane thermomechanical heterogeneous solids. International Journal for Numerical Methods in Engineering, 1999, 44, 567-585.	2.8	10
112	Nonlinear transient dynamic response of a blade subject to a pulsating load in a decaying centrifugal force field. International Journal of Mechanics and Materials in Design, 2018, 14, 709-728.	3.0	10
113	Hybrid molecular dynamics–finite element simulations of the elastic behavior of polycrystalline graphene. International Journal of Mechanics and Materials in Design, 2018, 14, 551-563.	3.0	10
114	Effect of surface topology on the wettability of superhydrophobic surfaces. Journal of Dispersion Science and Technology, 2020, 41, 470-478.	2.4	10
115	Machining residual stresses. Materials Science and Technology, 1996, 12, 445-449.	1.6	9
116	Analysis of curved cracks emanating from adjacent holes. Engineering Fracture Mechanics, 1999, 64, 337-355.	4.3	9
117	Advances in the development of superhydrophobic and icephobic surfaces. International Journal of Mechanics and Materials in Design, 2022, 18, 509-547.	3.0	9
118	Effective Mitigation of Shock Loads in Embedded Electronic Packaging Using Bilayered Potting Materials. Journal of Electronic Packaging, Transactions of the ASME, 2014, 136, .	1.8	8
119	Multiphysics modelling of the coupled behaviour of precision-guided projectiles subjected to intense shock loads. International Journal of Mechanics and Materials in Design, 2014, 10, 439-450.	3.0	8
120	The interaction between an interfacial crack and a microcrack under antiplane loading. International Journal of Fracture, 1996, 76, 263-278.	2.2	7
121	A Continuum Based Thick Shell Element for Large Deformation Analysis of Layered Composites. International Journal of Mechanics and Materials in Design, 2005, 2, 99-115.	3.0	7
122	Novel Morphing Wing Design Using Antagonistic Shape Memory Alloy Actuation. , 2010, , .		7
123	The Potential of Ultrasonic Non-Destructive Measurement of Residual Stresses by Modal Frequency Spacing using Leaky Lamb Waves. Experimental Mechanics, 2012, 52, 1329-1339.	2.0	7
124	Asymmetric Bifurcation of Initially Curved Nanobeam. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	2.2	7
125	Potential of combating transmission of COVID-19 using novel self-cleaning superhydrophobic surfaces: part Ilâ€"thermal, chemical, and mechanical durability. International Journal of Mechanics and Materials in Design, 2020, 16, 433-441.	3.0	7
126	On the debonding of an elastic elliptical inhomogeneity under antiplane shear. International Journal of Fracture, 1994, 67, 37-52.	2.2	6

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127	On the treatment of frictional contact in shell structures using variational inequalities. International Journal for Numerical Methods in Engineering, 1999, 46, 275-295.	2.8	6
128	Intelligent Condition Monitoring of Aerospace Composites: Part I - Nano Reinforced Surfaces & Interfaces. International Journal of Mechanics and Materials in Design, 2005, 2, 183-198.	3.0	6
129	Consistent element coupling in nonlinear static and dynamic analyses using explicit solvers. International Journal of Mechanics and Materials in Design, 2010, 6, 319-330.	3.0	6
130	Atomistic treatment of periodic gold nanowire array nanofasteners under shear loading. Nanotechnology, 2020, 31, 105704.	2.6	6
131	A numerical technique for laminar swirling flow at the interface between porous and homogenous fluid domains. International Journal for Numerical Methods in Fluids, 2009, 60, 337-353.	1.6	5
132	Accurate modelling of the crush behaviour of thin tubular columns using material point method. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1209-1219.	5.1	5
133	Dynamic behavior of micro-resonator under alternating current voltage. International Journal of Mechanics and Materials in Design, 2017, 13, 481-497.	3.0	5
134	Effect of interfacial friction and fold penetration on the progressive collapse of foam-filled frustum using kinematically admissible model. International Journal of Crashworthiness, 2018, 23, 581-592.	1.9	5
135	Coupled molecular dynamics-Monte Carlo modeling of gold nanowire surface fasteners. Applied Surface Science, 2020, 507, 145183.	6.1	5
136	Modeling and characterization of bilayer containment ring in gas turbine engine. International Journal for Computational Methods in Engineering Science and Mechanics, 2020, 21, 96-108.	2.1	5
137	Editorial: message from the editor-in-chief. International Journal of Mechanics and Materials in Design, 2021, 17, 1-2.	3.0	5
138	Electro-elastic field of a piezoelectric quasicrystal medium containing two cylindrical inclusions. Acta Mechanica, 2021, 232, 2513-2533.	2.1	5
139	Interfacial Debonding of an Elliptical Inhomogeneity in Piezoelectric Solids. Journal of Applied Mechanics, Transactions ASME, 1999, 66, 1037-1040.	2.2	4
140	Analytical viscoelastic modelling of whiplash using lumped-parameter approach. International Journal of Mechanics and Materials in Design, 2015, 11, 125-137.	3.0	4
141	Accurate and consistent FE modelling of soft docking of micro/nano paired-satellites using variational inequalities. International Journal of Mechanics and Materials in Design, 2016, 12, 509-523.	3.0	4
142	Nonlinear vibration analysis of a microbeam subject to electrostatic force. Acta Mechanica, 2017, 228, 1343-1361.	2.1	4
143	Modeling and characterisation of depletion of aluminium in bond coat and growth of mixed oxides in thermal barrier coatings. International Journal of Mechanics and Materials in Design, 2020, 16, 667-683.	3.0	4
144	Dynamics of Precision Guided Projectile Launch: Solid–Solid Interaction. International Journal of Structural Stability and Dynamics, 2020, 20, 2043001.	2.4	4

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145	Wrinkling prediction of laminated composite panels under in-plane shear deformation. Acta Mechanica, 2021, 232, 57-72.	2.1	4
146	Containment of blade shedding in gas turbine engines: part Ilâ€"experimental and numerical investigations. International Journal of Mechanics and Materials in Design, 2021, 17, 13-24.	3.0	4
147	Containment of blade shedding in gas turbine engines: part l—design and development of a scaled down test rig. International Journal of Mechanics and Materials in Design, 2021, 17, 3-12.	3.0	4
148	Dynamics of precision-guided projectile launch: fluid–structure interaction. Acta Mechanica, 2021, 232, 1147-1161.	2.1	4
149	Survivability of embedded microelectronics in precision guided projectiles: Modeling and characterization. International Journal of Impact Engineering, 2021, 154, 103864.	5.0	4
150	Updated Lagrangian formulation of contact problems using variational inequalities. International Journal for Numerical Methods in Engineering, 1997, 40, 2975-2993.	2.8	3
151	Accurate modelling of compliant grippers using a new method. Robotica, 1998, 16, 219-225.	1.9	3
152	Development of autonomous robot for space servicing. , 2010, , .		3
153	Nonlinear multibody dynamics and finite element modeling of occupant response: part Il—frontal and lateral vehicle collisions. International Journal of Mechanics and Materials in Design, 2019, 15, 23-41.	3.0	3
154	Atomistic Modelling of Nanoindentation of Multilayered Graphene-Reinforced Nanocomposites. , 2018, , 39-70.		3
155	Multiphysics-Multiphase Modeling of Supercooled Droplets Impinging Superhydrophobic and Icephobic Surfaces. International Journal of Multiphase Flow, 2022, , 104101.	3.4	3
156	NOVEL COUPLING CONSTRAINT TECHNIQUE FOR EXPLICIT FINITE ELEMENT ANALYSIS. International Journal of Computational Methods, 2004, 01, 309-328.	1.3	2
157	Snap-Through Buckling of Micro/Nanobeams in Bistable Micro/Nanoelectromechanical Systems. , 2016, , 235-263.		2
158	Multiphysics modeling and characterization of explosively loaded aluminum blocks. Acta Mechanica, 2016, 227, 707-720.	2.1	2
159	Nonlinear multibody dynamics and finite element modeling of occupant response: part lâ€"rear vehicle collision. International Journal of Mechanics and Materials in Design, 2019, 15, 3-21.	3.0	2
160	Multiscale Modeling of Nanoreinforced Composites. , 2016, , 1-39.		1
161	Elasto-plastic behaviour of cantilever beams containing varied stress concentration cut out features. International Journal of Mechanics and Materials in Design, 2021, 17, 453-462.	3.0	1
162	A new finite element for treating plane thermomechanical heterogeneous solids. International Journal for Numerical Methods in Engineering, 1999, 44, 567-585.	2.8	1

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163	Mechanical regulation of localized and appositional bone formation around boneâ€interfacing implants. Journal of Biomedical Materials Research Part B, 2001, 55, 63-71.	3.1	1
164	Aeroelastic behaviour of a flexible morphing wing design for unmanned aerial vehicle. Acta Mechanica, 2022, 233, 851.	2.1	1
165	Thermomechanical fracture behaviour of interacting microdefects in thermal barrier coatings. Acta Mechanica, 2022, 233, 2485-2503.	2.1	1
166	Containment and Arrest of Blade Shedding in Gas Turbine Engines Using Novel Dual-Ring Design. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	0
167	Molecular Dynamics Studies of Load Transfer in Nanocomposites Reinforced by Defective Carbon Nanotube. , 2018, , 71-121.		0