

# Raj Das

## List of Publications by Year in descending order

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166  
papers

4,167  
citations

159585

30  
h-index

149698

56  
g-index

168  
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168  
docs citations

168  
times ranked

3672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Auxetic metamaterials and structures: a review. <i>Smart Materials and Structures</i> , 2018, 27, 023001.	3.5	657
2	Three Decades of Auxetics Research—Materials with Negative Poisson's Ratio: A Review. <i>Advanced Engineering Materials</i> , 2016, 18, 1847-1870.	3.5	397
3	Effects of cell size and cell wall thickness variations on the stiffness of closed-cell foams. <i>International Journal of Solids and Structures</i> , 2015, 52, 150-164.	2.7	122
4	Control strategies for effective robot assisted gait rehabilitation: The state of art and future prospects. <i>Medical Engineering and Physics</i> , 2014, 36, 1555-1566.	1.7	111
5	Effect of rock shapes on brittle fracture using Smoothed Particle Hydrodynamics. <i>Theoretical and Applied Fracture Mechanics</i> , 2010, 53, 47-60.	4.7	94
6	Waves in Structured Mediums or Metamaterials: A Review. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1029-1058.	10.2	85
7	Internally coupled metamaterial beam for simultaneous vibration suppression and low frequency energy harvesting. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	81
8	Metastructure With Piezoelectric Element for Simultaneous Vibration Suppression and Energy Harvesting. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017, 139, .	1.6	80
9	Acoustic metamaterials with coupled local resonators for broadband vibration suppression. <i>AIP Advances</i> , 2017, 7, .	1.3	76
10	A two-degree-of-freedom piezoelectric energy harvester with stoppers for achieving enhanced performance. <i>International Journal of Mechanical Sciences</i> , 2018, 149, 500-507.	6.7	74
11	Effects of cell size and cell wall thickness variations on the strength of closed-cell foams. <i>International Journal of Engineering Science</i> , 2017, 120, 220-240.	5.0	67
12	Acoustic-Elastic Metamaterials and Phononic Crystals for Energy Harvesting: A Review. <i>Smart Materials and Structures</i> , 0, , .	3.5	67
13	Influence of natural fibre reinforcements on the flammability of bio-derived composite materials. <i>Composites Part B: Engineering</i> , 2012, 43, 2867-2874.	12.0	66
14	MIMO Sliding Mode Controller for Gait Exoskeleton Driven by Pneumatic Muscles. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 274-281.	5.2	63
15	Historical Origin and Recent Development on Normal Directional Impact Models for Rigid Body Contact Simulation: A Critical Review. <i>Archives of Computational Methods in Engineering</i> , 2017, 24, 397-422.	10.2	62
16	Frequency graded 1D metamaterials: A study on the attenuation bands. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	61
17	Reduced Graphene Oxide: Effect of Reduction on Electrical Conductivity. <i>Journal of Composites Science</i> , 2018, 2, 25.	3.0	61
18	Study of thermal, flammability and mechanical properties of intumescent flame retardant PP/kenaf nanocomposites. <i>International Journal of Smart and Nano Materials</i> , 2016, 7, 202-220.	4.2	47

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19	Multi-scale modelling of rolling shear failure in cross-laminated timber structures by homogenisation and cohesive zone models. <i>International Journal of Solids and Structures</i> , 2016, 81, 219-232.	2.7	47
20	Metamaterial With Local Resonators Coupled by Negative Stiffness Springs for Enhanced Vibration Suppression. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	2.2	47
21	Application of a mesh-free continuum method for simulation of rock caving processes. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011, 48, 703-711.	5.8	44
22	Analytical solutions for elastic deformation of functionally graded thick plates with in-plane stiffness variation using higher order shear deformation theory. <i>Composites Part B: Engineering</i> , 2016, 94, 109-121.	12.0	44
23	Modelling of metal forging using SPH. <i>Applied Mathematical Modelling</i> , 2012, 36, 3836-3855.	4.2	43
24	Fiber dispersion during compounding/injection molding of PP/kenaf composites: Flammability and mechanical properties. <i>Materials and Design</i> , 2015, 86, 500-507.	7.0	42
25	DSM for ultimate strength of bolted moment-connections between cold-formed steel channel members. <i>Journal of Constructional Steel Research</i> , 2016, 117, 196-203.	3.9	42
26	Forming studies of carbon fibre composite sheets in dome forming processes. <i>Composite Structures</i> , 2013, 97, 310-316.	5.8	38
27	On the anisotropic and negative thermal expansion from dual-material re-entrant-type cellular metamaterials. <i>Journal of Materials Science</i> , 2017, 52, 899-912.	3.7	38
28	Finite element analysis of the compressive and shear responses of structural foams using computed tomography. <i>Composite Structures</i> , 2017, 159, 784-799.	5.8	38
29	Effects of sample orientation on the fire reaction properties of natural fibre composites. <i>Composites Part B: Engineering</i> , 2019, 157, 195-206.	12.0	37
30	A mesh-free approach for fracture modelling of gravity dams under earthquake. <i>International Journal of Fracture</i> , 2013, 179, 9-33.	2.2	34
31	Finite element analysis of an implant-assisted removable partial denture during bilateral loading: Occlusal rests position. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 1126-1133.	2.8	33
32	3-D elasto-plastic large deformations: IGA simulation by Bézier extraction of NURBS. <i>Advances in Engineering Software</i> , 2017, 108, 68-82.	3.8	33
33	Seismic analysis of a curved bridge considering deck-abutment pounding interaction: an analytical investigation on the post-impact response. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 267-290.	4.4	28
34	Finite element modelling of the explosive blast response of carbon fibre-polymer laminates. <i>Composites Part B: Engineering</i> , 2019, 177, 1074-12.	12.0	28
35	Quick Abnormal-Bid-Detection Method for Construction Contract Auctions. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015, 141, 04015010.	3.8	27
36	Analysis of cross-laminated timber by computational homogenisation and experimental validation. <i>Composite Structures</i> , 2015, 121, 386-394.	5.8	27

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37	Design of structures for optimal static strength using ESO. Engineering Failure Analysis, 2005, 12, 61-80.	4.0	26
38	Effect of nano-cellulosic fiber on mechanical and barrier properties of polylactic acid (PLA) green nanocomposite film. Materials Research Express, 2019, 6, 125108.	1.6	26
39	Digital image and volume correlation with X-ray micro-computed tomography for deformation and damage characterisation of woven fibre-reinforced composites. Composite Structures, 2022, 279, 114775.	5.8	26
40	Bending analysis of thin functionally graded plate under in-plane stiffness variations. Applied Mathematical Modelling, 2017, 44, 481-496.	4.2	25
41	Three-dimensional modelling of coupled flow dynamics, heat transfer and residual stress generation in arc welding processes using the mesh-free SPH method. Journal of Computational Science, 2016, 16, 200-216.	2.9	24
42	In situ neutron diffraction observations of Ti-TiB composites. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105501.	7.6	24
43	An impact-engaged two-degrees-of-freedom Piezoelectric Energy Harvester for Wideband Operation. Procedia Engineering, 2017, 173, 1463-1470.	1.2	22
44	An impact based mass-in-mass unit as a building block of wideband nonlinear resonating metamaterial. International Journal of Non-Linear Mechanics, 2018, 101, 8-15.	2.6	22
45	Optimisation of damage tolerant structures using a 3D biological algorithm. Engineering Failure Analysis, 2006, 13, 362-379.	4.0	20
46	Evaluation of Accuracy and Stability of the Classical SPH Method Under Uniaxial Compression. Journal of Scientific Computing, 2015, 64, 858-897.	2.3	20
47	Characterisation of off-axis tensile behaviour and mesoscale deformation of woven carbon-fibre/PEEK using digital image correlation and X-ray computed tomography. Composites Part B: Engineering, 2022, 229, 109448.	12.0	20
48	Dislocation dynamics in polycrystals with atomistic-informed mechanisms of dislocation - grain boundary interactions. Journal of Micromechanics and Molecular Physics, 2017, 02, 1750003.	1.2	19
49	Effect of seawater immersion on the explosive blast response of a carbon fibre-polymer laminate. Composites Part A: Applied Science and Manufacturing, 2018, 109, 382-391.	7.6	19
50	Tunable metamaterial beam using negative capacitor for local resonators coupling. Journal of Intelligent Material Systems and Structures, 2020, 31, 389-407.	2.5	19
51	A review on manufacture of polymeric foam cores for sandwich structures of complex shape in automotive applications. Journal of Sandwich Structures and Materials, 2022, 24, 789-819.	3.5	19
52	Strain Distribution in a Kennedy Class I Implant Assisted Removable Partial Denture under Various Loading Conditions. International Journal of Dentistry, 2013, 2013, 1-11.	1.5	18
53	Simulating backspatter of blood from cranial gunshot wounds using pig models. International Journal of Legal Medicine, 2016, 130, 985-994.	2.2	18
54	Numerical and experimental study on deformation of 3D-printed polymeric functionally graded plates: 3D-Digital Image Correlation approach. Composite Structures, 2019, 211, 481-489.	5.8	18

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55	Using smooth particle hydrodynamics to investigate femoral cortical bone remodelling at the Haversian level. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 129-143.	2.1	17
56	Multi-scale model updating for the mechanical properties of cross-laminated timber. <i>Computers and Structures</i> , 2016, 177, 83-90.	4.4	17
57	An elasto-plastic damage model for functionally graded plates with in-plane material properties variation: Material model and numerical implementation. <i>Composite Structures</i> , 2017, 163, 331-341.	5.8	17
58	Measurement of assembly stress in composite structures using the deep-hole drilling technique. <i>Composite Structures</i> , 2018, 202, 119-126.	5.8	17
59	Compressive rib fracture: Peri-mortem and post-mortem trauma patterns in a pig model. <i>Legal Medicine</i> , 2013, 15, 193-201.	1.3	16
60	Modelling rock fracturing caused by magma intrusion using the smoothed particle hydrodynamics method. <i>Computational Geosciences</i> , 2014, 18, 927-947.	2.4	16
61	A comparison between rib fracture patterns in peri- and post-mortem compressive injury in a piglet model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 33, 67-75.	3.1	16
62	Parametric analysis of flammability performance of polypropylene/kenaf composites. <i>Journal of Materials Science</i> , 2016, 51, 2101-2111.	3.7	16
63	Numerical and experimental study on free vibration of 3D-printed polymeric functionally graded plates. <i>Composite Structures</i> , 2018, 189, 192-205.	5.8	16
64	Simulation-informed laser metal powder deposition of Ti-6Al-4V with ultrafine $\hat{1}\pm\hat{1}^2$ lamellar structures for desired tensile properties. <i>Additive Manufacturing</i> , 2021, 46, 102139.	3.0	16
65	Wake galloping energy harvesting in heat exchange systems under the influence of ash deposition. <i>Energy</i> , 2022, 253, 124175.	8.8	16
66	An experimental study on a novel cold-formed steel connection for light gauge open channel steel trusses. <i>Journal of Constructional Steel Research</i> , 2016, 122, 70-79.	3.9	15
67	Comparative experimental study into the explosive blast response of sandwich structures used in naval ships. <i>Composites Communications</i> , 2022, 30, 101072.	6.3	15
68	Oblique frictional unilateral contacts perceived in curved bridges. <i>Nonlinear Dynamics</i> , 2016, 85, 2207-2231.	5.2	14
69	Saint-Venant torsion analysis of bars with rectangular cross-section and effective coating layers. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016, 37, 237-252.	3.6	14
70	Anisotropic continuum damage model for prediction of failure in flax/polypropylene fabric composites. <i>Polymer Composites</i> , 2016, 37, 2588-2597.	4.6	14
71	A mechanostatistical approach to cortical bone remodelling: an equine model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 29-42.	2.8	14
72	Compressive and shear strengths of the ductile closed-cell Kelvin and Weaire-Phelan foams along the lattice direction [100]. <i>Thin-Walled Structures</i> , 2018, 132, 237-249.	5.3	14

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73	Modelling of a cantilevered energy harvester with partial piezoelectric coverage and shunted to practical interface circuits. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 1896-1912.	2.5	14
74	Novel approach for modelling of nanomachining using a mesh-less method. <i>Applied Mathematical Modelling</i> , 2012, 36, 5589-5602.	4.2	13
75	Investigation of bond strength and energy absorption capabilities in recyclable sandwich panels. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 45, 6-13.	7.6	13
76	Sheet forming of flax reinforced polypropylene composites using vacuum assisted oven consolidation (VAOC). <i>Journal of Materials Processing Technology</i> , 2014, 214, 2375-2386.	6.3	13
77	Evaluating Simulant Materials for Understanding Cranial Backscatter from a Ballistic Projectile. <i>Journal of Forensic Sciences</i> , 2015, 60, 627-637.	1.6	13
78	Finite element analysis of implant-assisted removable partial dentures: Framework design considerations. <i>Journal of Prosthetic Dentistry</i> , 2017, 118, 177-186.	2.8	13
79	General Framework for Modeling Multifunctional Metamaterial Beam Based on a Derived One-Dimensional Piezoelectric Composite Finite Element. <i>Journal of Aerospace Engineering</i> , 2018, 31, .	1.4	13
80	Failure behaviour in woven thermoplastic composites subjected to various deformation modes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 146, 106410.	7.6	13
81	Z-Pinned composites with combined delamination toughness and delamination Self-Repair properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106566.	7.6	13
82	Optimal topology design of industrial structures using an evolutionary algorithm. <i>Optimization and Engineering</i> , 2011, 12, 681-717.	2.4	12
83	The observation of structural multiplicity in $\{111\}$ grain boundaries in FCC metals. <i>Materials Letters</i> , 2015, 158, 413-415.	2.6	12
84	Modelling with variable atomic structure: Dislocation nucleation from symmetric tilt grain boundaries in aluminium. <i>Computational Materials Science</i> , 2015, 101, 16-28.	3.0	12
85	Towards a multiscale model for flax composites from behaviour of fibre and fibre/polymer interface. <i>Journal of Composite Materials</i> , 2017, 51, 859-873.	2.4	12
86	Development of an S-specimen geometry for shear testing of woven thermoplastic composites. <i>Composites Part B: Engineering</i> , 2020, 203, 108485.	12.0	12
87	Damage tolerance based design optimisation of a fuel flow vent hole in an aircraft structure. <i>Structural and Multidisciplinary Optimization</i> , 2009, 38, 245-265.	3.5	11
88	Fatigue life enhancement of structures using shape optimisation. <i>Theoretical and Applied Fracture Mechanics</i> , 2009, 52, 165-179.	4.7	11
89	Vibration transmission through an impacting mass-in-mass unit, an analytical investigation. <i>International Journal of Non-Linear Mechanics</i> , 2017, 90, 137-146.	2.6	11
90	A New Approach for Determination of the Attenuation Bandwidth of a Resonating Metamaterial. <i>Applied Mechanics and Materials</i> , 0, 846, 264-269.	0.2	10

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91	Impact behaviour of fibre-metal laminates. , 2016, , 491-542.		10
92	Response of Honeycombs Subjected to In-Plane Shear. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	10
93	Computer modelling integrated with micro-CT and material testing provides additional insight to evaluate bone treatments: Application to a beta-glycan derived whey protein mice model. Computers in Biology and Medicine, 2016, 68, 9-20.	7.0	10
94	Transitional grain boundary structures and the influence on thermal, mechanical and energy properties from molecular dynamics simulations. Acta Materialia, 2016, 108, 355-366.	7.9	10
95	Dynamic behaviour of mixed dislocations in FCC metals under multi-oriented loading with molecular dynamics simulations. Computational Materials Science, 2017, 137, 39-54.	3.0	10
96	Impact based wideband nonlinear resonating metamaterial chain. International Journal of Non-Linear Mechanics, 2018, 103, 138-144.	2.6	10
97	Surface topography evolution of woven thermoplastic composites under deformation. Composites Part B: Engineering, 2020, 188, 107880.	12.0	10
98	Damage tolerance based shape design of a stringer cutout using evolutionary structural optimisation. Engineering Failure Analysis, 2007, 14, 118-137.	4.0	9
99	Development of a 3D Biological method for fatigue life based optimisation and its application to structural shape design. International Journal of Fatigue, 2009, 31, 309-321.	5.7	9
100	Evaluation of fracture characteristics of ceramic coatings on stainless steel substrates using circumferentially notched tensile specimens. Composites Part B: Engineering, 2011, 42, 1596-1602.	12.0	9
101	Topology optimisation of a bulkhead component used in aircrafts using an evolutionary algorithm. Procedia Engineering, 2011, 10, 2867-2872.	1.2	9
102	Damage to fibre-polymer laminates caused by surface contact explosive charges. Composites Part B: Engineering, 2020, 197, 108162.	12.0	9
103	Modelling of equal channel angular pressing using a mesh-free method. Journal of Materials Science, 2012, 47, 4514-4519.	3.7	8
104	Characteristics of the design surface of damage tolerance parameters and their relation to shape optimisation. International Journal of Fatigue, 2015, 70, 490-502.	5.7	8
105	Metamaterial-inspired piezoelectric system with dual functionalities: energy harvesting and vibration suppression. Proceedings of SPIE, 2017, , .	0.8	8
106	Microstructure Characterization of &In Situ& Ti-TiB Metal Matrix Composites Prepared by Powder Metallurgy Process. Key Engineering Materials, 0, 770, 25-30.	0.4	8
107	A multi-physics framework model towards coupled fire-structure interaction for Flax/PP composite beams. Composites Part B: Engineering, 2019, 157, 207-218.	12.0	8
108	Large Scale Simulation of Industrial, Engineering and Geophysical Flows Using Particle Methods. Computational Methods in Applied Sciences (Springer), 2011, , 89-111.	0.3	7

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109	Integrating micro CT indices, CT imaging and computational modelling to assess the mechanical performance of fluoride treated bone. Medical Engineering and Physics, 2013, 35, 1793-1800.	1.7	7
110	Novel application of the mesh-free SPH method for modelling thermo-mechanical responses in arc welding. International Journal of Mechanics and Materials in Design, 2015, 11, 337-355.	3.0	7
111	Methodology for designing and manufacturing complex biologically inspired soft robotic fluidic actuators: prosthetic hand case study. Bioinspiration and Biomimetics, 2016, 11, 066005.	2.9	7
112	Evaluation of Micro-EDM ( $\hat{1}/4$ EDM) Characteristics of Conductive Silicon Carbide Using a Coupled Thermo-Structural Process Model. Journal of Advanced Manufacturing Systems, 2018, 17, 415-443.	1.0	7
113	Designing cutouts for optimum residual strength in plane structural elements. International Journal of Fracture, 2009, 156, 129-153.	2.2	6
114	Study of Abrasive Wear Mechanism through Nano Machining. Key Engineering Materials, 0, 462-463, 931-936.	0.4	6
115	CHARACTERIZATION OF COHESIVE LAWS FOR FOAM-METAL INTERFACES. International Journal of Applied Mechanics, 2014, 06, 1450072.	2.2	6
116	Finite Element Analysis of Implant-Assisted Removable Partial Denture Attachment with Different Matrix Designs During Bilateral Loading. International Journal of Oral and Maxillofacial Implants, 2016, 31, e116-e127.	1.4	6
117	Fabrication and Properties of Spin-Coated Polymer Films. , 2016, , 283-306.		6
118	Thermo-kinetic mechanisms for grain boundary structure multiplicity, thermal instability and defect interactions. Materials Chemistry and Physics, 2016, 179, 254-265.	4.0	6
119	Atomistic Activation Energy Criteria for Multi-Scale Modeling of Dislocation Nucleation in FCC Metals. International Journal of Computational Methods, 2016, 13, 1641006.	1.3	6
120	Analytical and numerical solutions for vibration of a functionally graded beam with multiple fractionally damped absorbers. Thin-Walled Structures, 2020, 157, 106711.	5.3	6
121	Deformation behaviour of steel/SRPP fibre metal laminate characterised by evolution of surface strains. Advances in Aircraft and Spacecraft Science, 2016, 3, 61-75.	0.5	6
122	Fracture toughness for CNT specimens from numerically obtained critical CTOD values. Theoretical and Applied Fracture Mechanics, 2009, 52, 50-54.	4.7	5
123	Nano-size Polymers via Precipitation of Polymer Solutions. , 2016, , 251-282.		5
124	Surface Roughness Prediction in Grinding: a Probabilistic Approach. MATEC Web of Conferences, 2016, 82, 01019.	0.2	5
125	Single-step manufacturing of curved polypropylene composites using a unique sheet consolidation method. Journal of Materials Processing Technology, 2016, 237, 96-112.	6.3	5
126	Mobility of dissociated mixed dislocations under an Escaig stress. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 045001.	2.0	5



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127	Analysis of guided wave propagation in functionally graded magneto-electro elastic composite. Waves in Random and Complex Media, 0, , 1-19.	2.7	5
128	WAVE TRANSMISSION THROUGH NONLINEAR IMPACTING METAMATERIAL UNIT. , 2016, , .		5
129	Welding Heat Transfer Analysis Using Element Free Galerkin Method. Advanced Materials Research, 2011, 410, 298-301.	0.3	4
130	Analytical solution for the axisymmetric buckling of cylindrical shells. International Journal of Mechanics and Materials in Design, 2015, 11, 139-148.	3.0	4
131	The Effects of Cubic Stiffness Nonlinearity on the Attenuation Bandwidth of 1D Elasto-Dynamic Metamaterials. , 2016, , .		4
132	Application of a mesh-free method to modelling brittle fracture and fragmentation of a concrete column during projectile impact. Computers and Concrete, 2015, 16, 933-961.	0.7	4
133	Modelling hypervelocity impact fracture of ceramic panels using a mesh-free method. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012058.	0.6	3
134	On cutting mechanisms during nano machining of metals. , 2010, , .		3
135	Experimentally quantified and computational anisotropic damage rules for flax fabric composites. International Journal of Damage Mechanics, 2018, 27, 120-137.	4.2	3
136	Evaluating Orientation Effects on the Fire Reaction Properties of Flax-Polypropylene Composites. Polymers, 2021, 13, 2586.	4.5	3
137	3D topographical analysis for defect detection during loading of woven thermoplastic composites. Composites Communications, 2022, 29, 100991.	6.3	3
138	Closed-Form Solutions of Stress Intensity Factors for Semi-elliptical Surface Cracks in a Cylindrical Bar Under Pure Tension. Acta Mechanica Solida Sinica, 2022, 35, 344-356.	1.9	3
139	Manufacturing and characterization of multifunctional polymer-reduced graphene oxide nanocomposites. , 2015, , 157-232.		2
140	Finite Element Analysis of Interfacial Fracture in Polyurethane Foam-Steel Composites at Micro-Scale. International Journal of Applied Mechanics, 2015, 07, 1550078.	2.2	2
141	An approach for characterising cellular polymeric foam structures using computed tomography. , 2018, , .		2
142	Modelling ballistic cranial injury and backspatter using smoothed particle hydrodynamics. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 478-491.	1.9	2
143	Strain Reduction between Cortical Pore Structures Leads to Bone Weakening and Fracture Susceptibility: An Investigation Using Smooth Particle Hydrodynamics. IFMBE Proceedings, 2010, , 784-787.	0.3	2
144	Application of SPH for Modelling Heat Transfer and Residual Stress Generation in Arc Welding. Materials Science Forum, 2010, 654-656, 2751-2754.	0.3	1

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145	Effect of loading phase angle on interfacial fracture toughness for Circumferentially Notched Tensile specimens. , 2010, , .		1
146	Understanding the Threshold Conditions for Dislocation Transmission from Tilt Grain Boundaries in FCC Metals under Uniaxial Loading. Applied Mechanics and Materials, 2014, 553, 28-34.	0.2	1
147	Brittle and Ductile Character of Amorphous Solids. Advances in Applied Mathematics and Mechanics, 2016, 8, 485-498.	1.2	1
148	Damage Tolerance, Reliability and Fracture Characteristics of Multilayered Engineering Composites. , 2016, , .		1
149	Harmonic effects in atomistic phase interactions between phonons and dislocations moving at relativistic velocities. Computational Materials Science, 2016, 124, 259-266.	3.0	1
150	An Exact Solution Technique for Impact Oscillators. , 2018, , 309-332.		1
151	Experimental study on in-plane compressive response of irregular honeycombs. Journal of Composite Materials, 2018, 52, 1121-1135.	2.4	1
152	Characterization of microstructures of SAN foam core using micro-computed tomography. Frontiers in Forests and Global Change, 2021, 40, 143-164.	1.1	1
153	Development of cost-effective transparent bionanocomposite films based on pullulan and cellulose nanofibers for packaging application. Polymer Bulletin, 0, , 1.	3.3	1
154	Improving the accuracy and reliability of temperature field simulation during laser metal deposition. Australian Journal of Mechanical Engineering, 2021, 19, 630-641.	2.1	1
155	Effects of Curvature on Slamming Loads. , 2016, , .		1
156	Internally coupled piezoelectric metamaterial beam with multi-functionalities. , 2018, , .		1
157	Two-step linear elastic finite element analysis: a new approach for evaluating fracture toughness for CNT specimens. International Journal of Materials and Structural Integrity, 2008, 2, 319.	0.1	0
158	Using Thermomechanical Conditioning Cycles to Improve Fracture Toughness of Low Carbon Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1118-1125.	2.2	0
159	Determination of Mechanical Properties of TiN Coating Using a Notched Cylindrical Stainless Steel Substrate. Materials Science Forum, 2010, 654-656, 1860-1863.	0.3	0
160	Residual Strength Optimisation of a Vent Hole in an Aircraft Component Using a Heuristic Method. Advanced Materials Research, 2011, 275, 105-108.	0.3	0
161	Trends and Developments in the Manufacturing of Polymer Nanofibrils with the Electrospinning Technique. Applied Mechanics and Materials, 0, 446-447, 1298-1303.	0.2	0
162	Characterisation of the Shear Stud-Concrete Connection Using Finite Element Analysis. Applied Mechanics and Materials, 0, 553, 570-575.	0.2	0

#	ARTICLE	IF	CITATIONS
163	Sliding Mode Control of an Exoskeleton Gait Rehabilitation Robot Driven by Pneumatic Muscle Actuators. , 2015, , .		0
164	A surrogate mechanostatistical microstructural model to inform whole hip cortical bone remodelling. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3183.	2.1	0
165	Oblique Frictional Unilateral Pounding Analysis in Two Successive Curved Bridge (S Type) Segments. Fluid Mechanics Research International Journal, 2017, 1, .	0.6	0
166	Vibration suppression of metamaterial with local resonators coupled by negative stiffness springs. , 2019, , .		0