

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
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168
all docs

168
docs citations

168
times ranked

3672
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on manufacture of polymeric foam cores for sandwich structures of complex shape in automotive applications. <i>Journal of Sandwich Structures and Materials</i> , 2022, 24, 789-819.	3.5	19
2	Digital image and volume correlation with X-ray micro-computed tomography for deformation and damage characterisation of woven fibre-reinforced composites. <i>Composite Structures</i> , 2022, 279, 114775.	5.8	26
3	Characterisation of off-axis tensile behaviour and mesoscale deformation of woven carbon-fibre/PEEK using digital image correlation and X-ray computed tomography. <i>Composites Part B: Engineering</i> , 2022, 229, 109448.	12.0	20
4	3D topographical analysis for defect detection during loading of woven thermoplastic composites. <i>Composites Communications</i> , 2022, 29, 100991.	6.3	3
5	Closed-Form Solutions of Stress Intensity Factors for Semi-elliptical Surface Cracks in a Cylindrical Bar Under Pure Tension. <i>Acta Mechanica Solida Sinica</i> , 2022, 35, 344-356.	1.9	3
6	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
7	Wake galloping energy harvesting in heat exchange systems under the influence of ash deposition. <i>Energy</i> , 2022, 253, 124175.	8.8	16
8	Characterization of microstructures of SAN foam core using micro-computed tomography. <i>Frontiers in Forests and Global Change</i> , 2021, 40, 143-164.	1.1	1
9	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
10	Evaluating Orientation Effects on the Fire Reaction Properties of Flax-Polypropylene Composites. <i>Polymers</i> , 2021, 13, 2586.	4.5	3
11	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
12	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
13	Improving the accuracy and reliability of temperature field simulation during laser metal deposition. <i>Australian Journal of Mechanical Engineering</i> , 2021, 19, 630-641.	2.1	1
14	Modelling ballistic cranial injury and backspatter using smoothed particle hydrodynamics. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020, 8, 478-491.	1.9	2
15	Tunable metamaterial beam using negative capacitor for local resonators coupling. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 389-407.	2.5	19
16	Analytical and numerical solutions for vibration of a functionally graded beam with multiple fractionally damped absorbers. <i>Thin-Walled Structures</i> , 2020, 157, 106711.	5.3	6
17	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
18	Damage to fibre-polymer laminates caused by surface contact explosive charges. <i>Composites Part B: Engineering</i> , 2020, 197, 108162.	12.0	9

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19	Surface topography evolution of woven thermoplastic composites under deformation. Composites Part B: Engineering, 2020, 188, 107880.	12.0	10
20	Effects of sample orientation on the fire reaction properties of natural fibre composites. Composites Part B: Engineering, 2019, 157, 195-206.	12.0	37
21	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
22	Waves in Structured Mediums or Metamaterials: A Review. Archives of Computational Methods in Engineering, 2019, 26, 1029-1058.	10.2	85
23	In situ neutron diffraction observations of Ti-TiB composites. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105501.	7.6	24
24	Finite element modelling of the explosive blast response of carbon fibre-polymer laminates. Composites Part B: Engineering, 2019, 177, 107412.	12.0	28
25	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
26	Metamaterial With Local Resonators Coupled by Negative Stiffness Springs for Enhanced Vibration Suppression. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	47
27	Modelling of a cantilevered energy harvester with partial piezoelectric coverage and shunted to practical interface circuits. Journal of Intelligent Material Systems and Structures, 2019, 30, 1896-1912.	2.5	14
28	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
29	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
30	Vibration suppression of metamaterial with local resonators coupled by negative stiffness springs. , 2019, , .		0
31	Numerical and experimental study on free vibration of 3D-printed polymeric functionally graded plates. Composite Structures, 2018, 189, 192-205.	5.8	16
32	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
33	An Exact Solution Technique for Impact Oscillators. , 2018, , 309-332.		1
34	Internally coupled metamaterial beam for simultaneous vibration suppression and low frequency energy harvesting. Journal of Applied Physics, 2018, 123, .	2.5	81
35	Measurement of assembly stress in composite structures using the deep-hole drilling technique. Composite Structures, 2018, 202, 119-126.	5.8	17
36	Experimental study on in-plane compressive response of irregular honeycombs. Journal of Composite Materials, 2018, 52, 1121-1135.	2.4	1

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37	Auxetic metamaterials and structures: a review. <i>Smart Materials and Structures</i> , 2018, 27, 023001.	3.5	657
38	Effect of seawater immersion on the explosive blast response of a carbon fibre-polymer laminate. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 382-391.	7.6	19
39	Experimentally quantified and computational anisotropic damage rules for flax fabric composites. <i>International Journal of Damage Mechanics</i> , 2018, 27, 120-137.	4.2	3
40	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
41	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
42	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
43	Reduced Graphene Oxide: Effect of Reduction on Electrical Conductivity. <i>Journal of Composites Science</i> , 2018, 2, 25.	3.0	61
44	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
45	An approach for characterising cellular polymeric foam structures using computed tomography. , 2018, , .		2
46	Evaluation of Micro-EDM ($\hat{1}\frac{1}{4}$ EDM) Characteristics of Conductive Silicon Carbide Using a Coupled Thermo-Structural Process Model. <i>Journal of Advanced Manufacturing Systems</i> , 2018, 17, 415-443.	1.0	7
47	Impact based wideband nonlinear resonating metamaterial chain. <i>International Journal of Non-Linear Mechanics</i> , 2018, 103, 138-144.	2.6	10
48	Internally coupled piezoelectric metamaterial beam with multi-functionalities. , 2018, , .		1
49	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
50	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
51	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
52	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
53	Bending analysis of thin functionally graded plate under in-plane stiffness variations. <i>Applied Mathematical Modelling</i> , 2017, 44, 481-496.	4.2	25
54	Acoustic metamaterials with coupled local resonators for broadband vibration suppression. <i>AIP Advances</i> , 2017, 7, .	1.3	76

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55	3-D elasto-plastic large deformations: IGA simulation by B-zier extraction of NURBS. Advances in Engineering Software, 2017, 108, 68-82.	3.8	33
56	Metamaterial-inspired piezoelectric system with dual functionalities: energy harvesting and vibration suppression. Proceedings of SPIE, 2017, , .	0.8	8
57	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
58	An impact-engaged two-degrees-of-freedom Piezoelectric Energy Harvester for Wideband Operation. Procedia Engineering, 2017, 173, 1463-1470.	1.2	22
59	Mobility of dissociated mixed dislocations under an Escaig stress. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 045001.	2.0	5
60	An elasto-plastic damage model for functionally graded plates with in-plane material properties variation: Material model and numerical implementation. Composite Structures, 2017, 163, 331-341.	5.8	17
61	Frequency graded 1D metamaterials: A study on the attenuation bands. Journal of Applied Physics, 2017, 122, .	2.5	61
62	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
63	Effects of cell size and cell wall thickness variations on the strength of closed-cell foams. International Journal of Engineering Science, 2017, 120, 220-240.	5.0	67
64	Towards a multiscale model for flax composites from behaviour of fibre and fibre/polymer interface. Journal of Composite Materials, 2017, 51, 859-873.	2.4	12
65	Seismic analysis of a curved bridge considering deck-abutment pounding interaction: an analytical investigation on the post-impact response. Earthquake Engineering and Structural Dynamics, 2017, 46, 267-290.	4.4	28
66	On the anisotropic and negative thermal expansion from dual-material re-entrant-type cellular metamaterials. Journal of Materials Science, 2017, 52, 899-912.	3.7	38
67	Finite element analysis of the compressive and shear responses of structural foams using computed tomography. Composite Structures, 2017, 159, 784-799.	5.8	38
68	Oblique Frictional Unilateral Pounding Analysis in Two Successive Curved Bridge (S Type) Segments. Fluid Mechanics Research International Journal, 2017, 1, .	0.6	0
69	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
70	Three Decades of Auxetics Research - Materials with Negative Poisson's Ratio: A Review. Advanced Engineering Materials, 2016, 18, 1847-1870.	3.5	397
71	Brittle and Ductile Character of Amorphous Solids. Advances in Applied Mathematics and Mechanics, 2016, 8, 485-498.	1.2	1
72	The Effects of Cubic Stiffness Nonlinearity on the Attenuation Bandwidth of 1D Elasto-Dynamic Metamaterials. , 2016, , .		4

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73	Damage Tolerance, Reliability and Fracture Characteristics of Multilayered Engineering Composites. , 2016, , .		1
74	An experimental study on a novel cold-formed steel connection for light gauge open channel steel trusses. Journal of Constructional Steel Research, 2016, 122, 70-79.	3.9	15
75	Nano-size Polymers via Precipitation of Polymer Solutions. , 2016, , 251-282.		5
76	Fabrication and Properties of Spin-CoatedÂPolymerÂFilms. , 2016, , 283-306.		6
77	Multi-scale model updating for the mechanical properties of cross-laminated timber. Computers and Structures, 2016, 177, 83-90.	4.4	17
78	Thermo-kinetic mechanisms for grain boundary structure multiplicity, thermal instability and defect interactions. Materials Chemistry and Physics, 2016, 179, 254-265.	4.0	6
79	Harmonic effects in atomistic phase interactions between phonons and dislocations moving at relativistic velocities. Computational Materials Science, 2016, 124, 259-266.	3.0	1
80	Impact behaviour of fibreâ€metal laminates. , 2016, , 491-542.		10
81	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
82	Study of thermal, flammability and mechanical properties of intumescent flame retardant PP/kenaf nanocomposites. International Journal of Smart and Nano Materials, 2016, 7, 202-220.	4.2	47
83	Surface Roughness Prediction in Grinding: a Probabilistic Approach. MATEC Web of Conferences, 2016, 82, 01019.	0.2	5
84	Response of Honeycombs Subjected to In-Plane Shear. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	10
85	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
86	Oblique frictional unilateral contacts perceived in curved bridges. Nonlinear Dynamics, 2016, 85, 2207-2231.	5.2	14
87	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
88	Multi-scale modelling of rolling shear failure in cross-laminated timber structures by homogenisation and cohesive zone models. International Journal of Solids and Structures, 2016, 81, 219-232.	2.7	47
89	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
90	Parametric analysis of flammability performance of polypropylene/kenaf composites. Journal of Materials Science, 2016, 51, 2101-2111.	3.7	16

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91	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
92	Transitional grain boundary structures and the influence on thermal, mechanical and energy properties from molecular dynamics simulations. <i>Acta Materialia</i> , 2016, 108, 355-366.	7.9	10
93	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
94	Three-dimensional modelling of coupled flow dynamics, heat transfer and residual stress generation in arc welding processes using the mesh-free SPH method. <i>Journal of Computational Science</i> , 2016, 16, 200-216.	2.9	24
95	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
96	Simulating backspatter of blood from cranial gunshot wounds using pig models. <i>International Journal of Legal Medicine</i> , 2016, 130, 985-994.	2.2	18
97	Anisotropic continuum damage model for prediction of failure in flax/polypropylene fabric composites. <i>Polymer Composites</i> , 2016, 37, 2588-2597.	4.6	14
98	A mechanostatistical approach to cortical bone remodelling: an equine model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 29-42.	2.8	14
99	Deformation behaviour of steel/SRPP fibre metal laminate characterised by evolution of surface strains. <i>Advances in Aircraft and Spacecraft Science</i> , 2016, 3, 61-75.	0.5	6
100	WAVE TRANSMISSION THROUGH NONLINEAR IMPACTING METAMATERIAL UNIT., 2016, , .		5
101	Effects of Curvature on Slamming Loads. , 2016, , .		1
102	Sliding Mode Control of an Exoskeleton Gait Rehabilitation Robot Driven by Pneumatic Muscle Actuators. , 2015, , .		0
103	Manufacturing and characterization of multifunctional polymer-reduced graphene oxide nanocomposites. , 2015, , 157-232.		2
104	Finite Element Analysis of Interfacial Fracture in Polyurethane Foam-Steel Composites at Micro-Scale. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550078.	2.2	2
105	The observation of structural multiplicity in $\hat{\epsilon}5(310)$ grain boundaries in FCC metals. <i>Materials Letters</i> , 2015, 158, 413-415.	2.6	12
106	Evaluation of Accuracy and Stability of the Classical SPH Method Under Uniaxial Compression. <i>Journal of Scientific Computing</i> , 2015, 64, 858-897.	2.3	20
107	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
108	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

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109	Quick Abnormal-Bid-Detection Method for Construction Contract Auctions. Journal of Construction Engineering and Management - ASCE, 2015, 141, 04015010.	3.8	27
110	Evaluating Simulant Materials for Understanding Cranial Backspatter from a Ballistic Projectile. Journal of Forensic Sciences, 2015, 60, 627-637.	1.6	13
111	Effects of cell size and cell wall thickness variations on the stiffness of closed-cell foams. International Journal of Solids and Structures, 2015, 52, 150-164.	2.7	122
112	Analysis of cross-laminated timber by computational homogenisation and experimental validation. Composite Structures, 2015, 121, 386-394.	5.8	27
113	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
114	Analytical solution for the axisymmetric buckling of cylindrical shells. International Journal of Mechanics and Materials in Design, 2015, 11, 139-148.	3.0	4
115	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
116	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
117	CHARACTERIZATION OF COHESIVE LAWS FOR FOAM-METAL INTERFACES. International Journal of Applied Mechanics, 2014, 06, 1450072.	2.2	6
118	Modelling rock fracturing caused by magma intrusion using the smoothed particle hydrodynamics method. Computational Geosciences, 2014, 18, 927-947.	2.4	16
119	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
120	Sheet forming of flax reinforced polypropylene composites using vacuum assisted oven consolidation (VAOC). Journal of Materials Processing Technology, 2014, 214, 2375-2386.	6.3	13
121	Control strategies for effective robot assisted gait rehabilitation: The state of art and future prospects. Medical Engineering and Physics, 2014, 36, 1555-1566.	1.7	111
122	Finite element analysis of an implant-assisted removable partial denture during bilateral loading: Occlusal rests position. Journal of Prosthetic Dentistry, 2014, 112, 1126-1133.	2.8	33
123	A comparison between rib fracture patterns in peri- and post-mortem compressive injury in a piglet model. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 33, 67-75.	3.1	16
124	Using smooth particle hydrodynamics to investigate femoral cortical bone remodelling at the Haversian level. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 129-143.	2.1	17
125	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
126	A mesh-free approach for fracture modelling of gravity dams under earthquake. International Journal of Fracture, 2013, 179, 9-33.	2.2	34

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127	Investigation of bond strength and energy absorption capabilities in recyclable sandwich panels. Composites Part A: Applied Science and Manufacturing, 2013, 45, 6-13.	7.6	13
128	Compressive rib fracture: Peri-mortem and post-mortem trauma patterns in a pig model. Legal Medicine, 2013, 15, 193-201.	1.3	16
129	Forming studies of carbon fibre composite sheets in dome forming processes. Composite Structures, 2013, 97, 310-316.	5.8	38
130	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
131	Novel approach for modelling of nanomachining using a mesh-less method. Applied Mathematical Modelling, 2012, 36, 5589-5602.	4.2	13
132	Influence of natural fibre reinforcements on the flammability of bio-derived composite materials. Composites Part B: Engineering, 2012, 43, 2867-2874.	12.0	66
133	Modelling of metal forging using SPH. Applied Mathematical Modelling, 2012, 36, 3836-3855.	4.2	43
134	Modelling of equal channel angular pressing using a mesh-free method. Journal of Materials Science, 2012, 47, 4514-4519.	3.7	8
135	Large Scale Simulation of Industrial, Engineering and Geophysical Flows Using Particle Methods. Computational Methods in Applied Sciences (Springer), 2011, , 89-111.	0.3	7
136	Optimal topology design of industrial structures using an evolutionary algorithm. Optimization and Engineering, 2011, 12, 681-717.	2.4	12
137	Application of a mesh-free continuum method for simulation of rock caving processes. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 703-711.	5.8	44
138	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
139	Topology optimisation of a bulkhead component used in aircrafts using an evolutionary algorithm. Procedia Engineering, 2011, 10, 2867-2872.	1.2	9
140	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
141	Welding Heat Transfer Analysis Using Element Free Galerkin Method. Advanced Materials Research, 2011, 410, 298-301.	0.3	4
142	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
143	Effect of rock shapes on brittle fracture using Smoothed Particle Hydrodynamics. Theoretical and Applied Fracture Mechanics, 2010, 53, 47-60.	4.7	94
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	On cutting mechanisms during nano machining of metals. , 2010, , .		3
147	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
148	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
149	Designing cutouts for optimum residual strength in plane structural elements. International Journal of Fracture, 2009, 156, 129-153.	2.2	6
150	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
151	Damage tolerance based design optimisation of a fuel flow vent hole in an aircraft structure. Structural and Multidisciplinary Optimization, 2009, 38, 245-265.	3.5	11
152	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
153	Fracture toughness for CNT specimens from numerically obtained critical CTOD values. Theoretical and Applied Fracture Mechanics, 2009, 52, 50-54.	4.7	5
154	Fatigue life enhancement of structures using shape optimisation. Theoretical and Applied Fracture Mechanics, 2009, 52, 165-179.	4.7	11
155	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
156	Damage tolerance based shape design of a stringer cutout using evolutionary structural optimisation. Engineering Failure Analysis, 2007, 14, 118-137.	4.0	9
157	Optimisation of damage tolerant structures using a 3D biological algorithm. Engineering Failure Analysis, 2006, 13, 362-379.	4.0	20
158	Design of structures for optimal static strength using ESO. Engineering Failure Analysis, 2005, 12, 61-80.	4.0	26
159	Study of Abrasive Wear Mechanism through Nano Machining. Key Engineering Materials, 0, 462-463, 931-936.	0.4	6
160	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
161	Characterisation of the Shear Stud-Concrete Connection Using Finite Element Analysis. Applied Mechanics and Materials, 0, 553, 570-575.	0.2	0
162	A New Approach for Determination of the Attenuation Bandwidth of a Resonating Metamaterial. Applied Mechanics and Materials, 0, 846, 264-269.	0.2	10

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163	Microstructure Characterization of <i>In Situ</i> Ti-TiB Metal Matrix Composites Prepared by Powder Metallurgy Process. Key Engineering Materials, 0, 770, 25-30.	0.4	8
164	Development of cost-effective transparent bionanocomposite films based on pullulan and cellulose nanofibers for packaging application. Polymer Bulletin, 0, , 1.	3.3	1
165	Acoustic-Elastic Metamaterials and Phononic Crystals for Energy Harvesting: A Review. Smart Materials and Structures, 0, , .	3.5	67
166	Analysis of guided wave propagation in functionally graded magneto-electro elastic composite. Waves in Random and Complex Media, 0, , 1-19.	2.7	5