

Wenyi Yan

List of Publications by Year in descending order

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156
papers

4,065
citations

101543

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docs citations

162
times ranked

3437
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensile properties of 3D-printed CNT-SGF reinforced PLA composites. <i>Composites Science and Technology</i> , 2022, 230, 109333.	7.8	14
2	Effective thermal conductivities of metal powders for additive manufacturing. <i>Powder Technology</i> , 2022, 401, 117323.	4.2	4
3	A design method of hopper shape optimization with improved mass flow pattern and reduced particle segregation. <i>Chemical Engineering Science</i> , 2022, 253, 117579.	3.8	9
4	A damage tolerance approach for structural integrity of truck trailers. <i>Engineering Failure Analysis</i> , 2022, 136, 106197.	4.0	4
5	Numerical study on ratcheting performance of heavy haul rail flash-butt welds in curved tracks. <i>Engineering Failure Analysis</i> , 2022, 140, 106611.	4.0	6
6	The role of bending stress on the initiation of reverse transverse defects. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2021, 235, 61-72.	2.0	4
7	Optimised curved hoppers with maximum mass discharge rate “an experimental study. <i>Powder Technology</i> , 2021, 377, 350-360.	4.2	16
8	Effect of spreading of the melt pool on the deposition characteristics in laser directed energy deposition. <i>Procedia Manufacturing</i> , 2021, 53, 407-416.	1.9	2
9	Palpation Sensitivity of an Embedded Nodule Using the Finite Element Method. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2021, 4, .	0.5	0
10	Ultra-High-Field Diffusion Tensor Imaging Identifies Discrete Patterns of Concussive Injury in the Rodent Brain. <i>Journal of Neurotrauma</i> , 2021, 38, 967-982.	3.4	8
11	Tribological Properties of a New Alloy Laser Cladded on Hypereutectoid Rails. <i>Journal of Tribology</i> , 2021, 143, .	1.9	1
12	Glass fibres coated with flame synthesised carbon nanotubes to enhance interface properties. <i>Composites Communications</i> , 2021, 24, 100623.	6.3	10
13	Effect of graphite and MoS ₂ based solid lubricants for application at wheel-rail interface on the wear mechanism and surface morphology of hypereutectoid rails. <i>Tribology International</i> , 2021, 157, 106886.	5.9	24
14	Numerical study on the ratcheting performance of rail flash butt welds in heavy haul operations. <i>International Journal of Mechanical Sciences</i> , 2021, 199, 106434.	6.7	15
15	Descriptor-based method combined with partition to reconstruct three-dimensional complex microstructures. <i>Physical Review E</i> , 2021, 104, 015316.	2.1	1
16	A characteristic time-based heat input model for simulating selective laser melting. <i>Additive Manufacturing</i> , 2021, 44, 102026.	3.0	5
17	A comprehensive analytical-computational model of laser directed energy deposition to predict deposition geometry and integrity for sustainable repair. <i>International Journal of Mechanical Sciences</i> , 2021, 211, 106790.	6.7	16
18	Shape optimization of conical hoppers to increase mass discharging rate. <i>Powder Technology</i> , 2020, 361, 179-189.	4.2	23

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19	Residual stress in laser clad heavy-haul rails investigated by neutron diffraction. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116511.	6.3	40
20	Nuclear plasticity increases susceptibility to damage during confined migration. <i>PLoS Computational Biology</i> , 2020, 16, e1008300.	3.2	14
21	Flame synthesis of carbon nanotubes on glass fibre fabrics and their enhancement in electrical and thermal properties of glass fibre/epoxy composites. <i>Composites Part B: Engineering</i> , 2020, 198, 108249.	12.0	22
22	Non-dimensional process maps for residual stress in laser directed energy deposition. <i>Procedia Manufacturing</i> , 2020, 48, 697-705.	1.9	9
23	Modeling multiple damage mechanisms via a multi-fiber multi-layer representative volume element (M2RVE). <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2020, 45, 1.	1.3	2
24	Ratcheting behaviour of flash butt welds in heat-treated hypereutectoid steel rails under uniaxial and biaxial cyclic loadings. <i>International Journal of Mechanical Sciences</i> , 2020, 176, 105539.	6.7	16
25	A post-processing method to remove stress singularity and minimize local stress concentration for topology optimized designs. <i>Advances in Engineering Software</i> , 2020, 145, 102815.	3.8	10
26	The Effect of Martensitic Transformation on the Evolution of Residual Stresses and Identification of the Critical Linear Mass Density in Direct Laser Metal Deposition-Based Repair. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020, 142, .	2.2	12
27	MicroRNA 449c Mediates the Generation of Monocytic Myeloid-Derived Suppressor Cells by Targeting STAT6. <i>Molecules and Cells</i> , 2020, 43, 793-803.	2.6	3
28	Influences of depositing materials, processing parameters and heating conditions on material characteristics of laser-clad hypereutectoid rails. <i>Journal of Materials Processing Technology</i> , 2019, 263, 1-20.	6.3	42
29	Evaluation of the mechanical properties of laser clad hypereutectoid steel rails. <i>Wear</i> , 2019, 432-433, 202930.	3.1	18
30	Numerical Simulation of Simultaneous Hydraulic Fracture Growth Within a Rock Layer: Implications for Stimulation of Low-Permeability Reservoirs. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 13227-13249.	3.4	27
31	Non-dimensional process maps for normalized dilution limits in laser direct metal deposition. <i>Procedia Manufacturing</i> , 2019, 34, 712-721.	1.9	6
32	Numerical study on the ratcheting performance of heavy haul rails in curved tracks. <i>Wear</i> , 2019, 436-437, 203026.	3.1	3
33	A 3D thermo-mechanically coupled model for describing rate-dependent super-elastic degeneration of NiTi shape memory alloys. <i>Mechanics Research Communications</i> , 2019, 99, 32-41.	1.8	3
34	Numerical Investigation Into the Simultaneous Growth of Two Closely Spaced Fluid-Driven Fractures. <i>SPE Journal</i> , 2019, 24, 274-289.	3.1	9
35	A Review on Wear Between Railway Wheels and Rails Under Environmental Conditions. <i>Journal of Tribology</i> , 2019, 141, .	1.9	30
36	Effects of preheating and carbon dilution on material characteristics of laser-clad hypereutectoid rail steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 548-563.	5.6	58

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37	Numerical analysis of multi-layered laser cladding for die repair applications to determine residual stresses and hardness. <i>Procedia Manufacturing</i> , 2018, 26, 952-961.	1.9	15
38	Critical deposition height for sustainable restoration via laser additive manufacturing. <i>Scientific Reports</i> , 2018, 8, 14726.	3.3	18
39	Tribological Behaviour of Laser Cladded Rail under Rolling Contact Test. , 2018, , .		0
40	Effect of stiffness anisotropy on topology optimisation of additively manufactured structures. <i>Engineering Structures</i> , 2018, 171, 842-848.	5.3	21
41	Thermo-Mechanically Coupled Thermo-Elasto-Visco-Plastic Modeling of Thermo-Induced Shape Memory Polyurethane at Finite Deformation. <i>Acta Mechanica Solida Sinica</i> , 2018, 31, 141-160.	1.9	16
42	Effect of deposition material and heat treatment on wear and rolling contact fatigue of laser cladded rails. <i>Wear</i> , 2018, 412-413, 69-81.	3.1	57
43	Comparison on damage tolerance of scarf and stepped-lap bonded composite joints under quasi-static loading. <i>Composites Part B: Engineering</i> , 2018, 155, 19-30.	12.0	36
44	Controlled graphene encapsulation: a nanoscale shield for characterising single bacterial cells in liquid. <i>Nanotechnology</i> , 2018, 29, 365705.	2.6	8
45	Classification of Impact Signals from Insulated Rail Joints Using Spectral Analysis. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2018, , 771-780.	0.3	0
46	A multi-body dynamics study on a weight-drop test of rat brain injury. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 602-616.	1.6	0
47	Axisymmetric structural optimization design and void control for selective laser melting. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 1027-1043.	3.5	8
48	Field investigation and numerical study of the rail corrugation caused by frictional self-excited vibration. <i>Wear</i> , 2017, 376-377, 1919-1929.	3.1	34
49	Modelling interacting cracks through a level set using the element-free Galerkin method. <i>International Journal of Mechanical Sciences</i> , 2017, 134, 203-215.	6.7	20
50	Effects of Lumbar Spine Assemblies and Body-Borne Equipment Mass on Anthropomorphic Test Device Responses During Drop Tests. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	1.3	1
51	Experimental Characterization of Clad Microstructure and its Correlation with Residual Stresses. <i>Procedia Manufacturing</i> , 2017, 10, 804-818.	1.9	15
52	Investigation of a novel functionally graded material for the repair of premium hypereutectoid rails using laser cladding technology. <i>Composites Part B: Engineering</i> , 2017, 130, 174-191.	12.0	77
53	Nanoindentation on Graphene Encapsulated Single Cells. <i>Microscopy and Microanalysis</i> , 2017, 23, 744-745.	0.4	0
54	Springback and forward slip compensation in designing roller cavity surfaces for net-shape rolling compressor blades. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1442-1449.	4.7	7

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55	A Numerical Study on Contact Condition and Wear of Roller in Cold Rolling. <i>Metals</i> , 2017, 7, 376.	2.3	9
56	A case study of rail corrugation phenomenon based on the viewpoint of friction-induced oscillation of a wheelset-track system. <i>Journal of Vibroengineering</i> , 2017, 19, 4516-4530.	1.0	8
57	Two-way actuation of graphene oxide arising from quantum mechanical effects. <i>Applied Physics Letters</i> , 2016, 109, 143902.	3.3	4
58	Thermal model for additive restoration of mold steels using crucible steel. <i>Journal of Manufacturing Processes</i> , 2016, 24, 346-354.	5.9	23
59	Crack propagation in non-homogenous materials: Evaluation of mixed-mode SIFs, T-stress and kinking angle using a variant of EFG Method. <i>Engineering Analysis With Boundary Elements</i> , 2016, 72, 11-26.	3.7	35
60	Two-dimensional shape memory graphene oxide. <i>Nature Communications</i> , 2016, 7, 11972.	12.8	33
61	Implementing a structural continuity constraint and a halting method for the topology optimization of energy absorbers. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 429-448.	3.5	6
62	Validation of a 3D damage model for predicting the response of composite structures under crushing loads. <i>Composite Structures</i> , 2016, 147, 65-73.	5.8	37
63	Matrix failure in composite laminates under compressive loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 103-113.	7.6	12
64	Predicting matrix failure in composite structures using a hybrid failure criterion. <i>Composite Structures</i> , 2016, 137, 148-158.	5.8	19
65	Experimental observations on rate-dependent cyclic deformation of super-elastic NiTi shape memory alloy. <i>Mechanics of Materials</i> , 2016, 97, 48-58.	3.2	102
66	Matrix failure in composite laminates under tensile loading. <i>Composite Structures</i> , 2016, 135, 61-73.	5.8	18
67	Crush responses of composite cylinder under quasi-static and dynamic loading. <i>Composite Structures</i> , 2015, 131, 90-98.	5.8	87
68	An efficient computational approach to evaluate the ratcheting performance of rail steels under cyclic rolling contact in service. <i>International Journal of Mechanical Sciences</i> , 2015, 101-102, 214-226.	6.7	39
69	A shear-lag model with a cohesive fibre-matrix interface for analysis of fibre pull-out. <i>Mechanics of Materials</i> , 2015, 91, 119-135.	3.2	37
70	Effect of body-borne equipment on injury of military pilots and aircrew during a simulated helicopter crash. <i>International Journal of Industrial Ergonomics</i> , 2015, 50, 130-142.	2.6	5
71	A numerical study on carbon nanotube pullout to understand its bridging effect in carbon nanotube reinforced composites. <i>Composites Part B: Engineering</i> , 2015, 81, 64-71.	12.0	41
72	Experimental characterization of laser cladding of CPM 9V on H13 tool steel for die repair applications. <i>Journal of Manufacturing Processes</i> , 2015, 20, 492-499.	5.9	149

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73	Theoretical study on nanoindentation hardness measurement of a particle embedded in a matrix. <i>Philosophical Magazine</i> , 2015, 95, 1573-1586.	1.6	10
74	Finite element modelling of composite structures under crushing load. <i>Composite Structures</i> , 2015, 131, 215-228.	5.8	79
75	Fatigue damage tolerance of two tapered composite patch configurations. <i>Composite Structures</i> , 2015, 134, 654-662.	5.8	7
76	Multidimensional characterisation of biomechanical structures by combining Atomic Force Microscopy and Focused Ion Beam: A study of the rat whisker. <i>Acta Biomaterialia</i> , 2015, 21, 132-141.	8.3	19
77	Fatigue life of laser clad hardfacing alloys on AISI 4130 steel under rotary bending fatigue test. <i>International Journal of Fatigue</i> , 2015, 72, 42-52.	5.7	30
78	Study of localized damage in composite laminates using micro–macro approach. <i>Composite Structures</i> , 2014, 113, 1-11.	5.8	12
79	Ratcheting behaviour of high strength rail steels under bi-axial compression–torsion loadings: Experiment and simulation. <i>International Journal of Fatigue</i> , 2014, 66, 138-154.	5.7	53
80	A single parameter to evaluate stress state in rail head for rolling contact fatigue analysis. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014, 37, 909-919.	3.4	12
81	Effects of body-borne equipment on occupant forces during a simulated helicopter crash. <i>International Journal of Industrial Ergonomics</i> , 2014, 44, 561-569.	2.6	7
82	Piezoelectric properties of graphene oxide: A first-principles computational study. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	58
83	A numerical study on carbon nanotube–hybridized carbon fibre pullout. <i>Composites Science and Technology</i> , 2014, 91, 38-44.	7.8	29
84	Oliver–Pharr indentation method in determining elastic moduli of shape memory alloys–A phase transformable material. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 2015-2033.	4.8	108
85	Evaluation of Microstructure and Mechanical Properties at the Interface Region of Laser-Clad Stellite 6 on Steel Using Nanoindentation. <i>Metallography, Microstructure, and Analysis</i> , 2013, 2, 328-336.	1.0	16
86	Elastic modulus of rat whiskers–A key biomaterial in the rat whisker sensory system. <i>Materials Research Bulletin</i> , 2013, 48, 5026-5032.	5.2	12
87	A truncated conical beam model for analysis of the vibration of rat whiskers. <i>Journal of Biomechanics</i> , 2013, 46, 1987-1995.	2.1	28
88	Fracture mechanics of stainless steel foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 115-124.	5.6	19
89	On anomalous depth-dependency of the hardness of NiTi shape memory alloys in spherical nanoindentation. <i>Journal of Materials Research</i> , 2013, 28, 2031-2039.	2.6	14
90	A Vision-Based Methodology to Dynamically Track and Describe Cell Deformation during Cell Micromanipulation. <i>International Journal of Optomechatronics</i> , 2013, 7, 33-45.	6.6	14

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91	An energy-based fatigue failure model for super-elastic NiTi alloys under pure mechanical cyclic loading. Proceedings of SPIE, 2012, , .	0.8	12
92	Numerical investigation of the mechanical behaviour of shape memory bulk metallic glass composites. Proceedings of SPIE, 2012, , .	0.8	0
93	Carbon fibre pullout under the influence of residual thermal stresses in polymer matrix composites. Computational Materials Science, 2012, 62, 79-86.	3.0	52
94	Conditions of applying Oliver's Pharr method to the nanoindentation of particles in composites. Composites Science and Technology, 2012, 72, 1147-1152.	7.8	79
95	Wear at the die radius in sheet metal stamping. Wear, 2012, 274-275, 355-367.	3.1	39
96	Cyclic Deformation Behavior and Low-Cycle Fatigue Failure Behavior of TA16 Titanium Alloy. Advanced Science Letters, 2012, 15, 465-468.	0.2	0
97	A modified human head model for the study of impact head injury. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 1049-1057.	1.6	51
98	Spherical indentation method to measure mechanical properties of metallic foams. Materials Research Innovations, 2011, 15, s41-s44.	2.3	5
99	Some issues on nanoindentation method to measure the elastic modulus of particles in composites. Composites Part B: Engineering, 2011, 42, 2093-2097.	12.0	52
100	Ultraflexible plasmonic nanocomposite aerogel. RSC Advances, 2011, 1, 1265.	3.6	23
101	Fatigue crack growth behavior of titanium foams for medical applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1602-1607.	5.6	39
102	Numerical investigation of the effect of porous titanium femoral prosthesis on bone remodeling. Materials & Design, 2011, 32, 1776-1782.	5.1	41
103	Depth dependency of indentation hardness during solid-state phase transition of shape memory alloys. Applied Physics Letters, 2011, 99, .	3.3	33
104	Tool Wear in Sheet Metal Stamping. Advanced Materials Research, 2011, 421, 750-753.	0.3	2
105	Spherical indentation of metallic foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3166-3175.	5.6	16
106	Experimental investigation and 3D finite element prediction of the heat affected zone during laser assisted machining of Ti6Al4V alloy. Journal of Materials Processing Technology, 2010, 210, 2215-2222.	6.3	216
107	Fracture toughness of titanium foams for medical applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7689-7693.	5.6	45
108	Sliding distance, contact pressure and wear in sheet metal stamping. Wear, 2010, 268, 1275-1284.	3.1	59

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109	Scaling Relationships in Spherical Indentation of Metallic Foams. , 2010, , .		1
110	Experimental investigation and 3D modeling of the temperature profile of Ti6Al4V alloy subjected to laser heating. , 2010, , .		1
111	Scaling relationships in sharp conical indentation of shape memory alloys. Philosophical Magazine, 2010, 90, 599-616.	1.6	10
112	Effects of pores on shear bands in metallic glasses: A molecular dynamics study. Computational Materials Science, 2010, 50, 211-217.	3.0	42
113	Dynamic responses of irregular fibers under axial tension. Journal of Applied Polymer Science, 2009, 113, 2561-2568.	2.6	2
114	Investigation of a hydraulic impact: a technology in rock breaking. Archive of Applied Mechanics, 2009, 79, 825-841.	2.2	6
115	Contact pressure evolution at the die radius in sheet metal stamping. Journal of Materials Processing Technology, 2009, 209, 3532-3541.	6.3	43
116	Effects of quenching rate on amorphous structures of Cu ₄₆ Zr ₅₄ metallic glass. Journal of Materials Processing Technology, 2009, 209, 4601-4606.	6.3	32
117	Effects of phase transition on the hardness of shape memory alloys. Applied Physics Letters, 2009, 94, .	3.3	11
118	EFFECT OF TRANSFORMATION VOLUME STRAIN ON THE SPHERICAL INDENTATION OF SHAPE MEMORY ALLOYS. , 2009, , .		0
119	MECHANICAL PROPERTIES OF TITANIUM FOAM FOR BIOMEDICAL APPLICATIONS. , 2009, , .		2
120	Contact pressure evolution and its relation to wear in sheet metal forming. Wear, 2008, 265, 1687-1699.	3.1	77
121	Determination of plastic yield stress from spherical indentation slope curve. Materials Letters, 2008, 62, 2260-2262.	2.6	17
122	Plastic deformation in Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metal glass under Vickers indenter. Journal of Alloys and Compounds, 2008, 461, 173-177.	5.5	8
123	Wearless scratch on NiTi shape memory alloy due to phase transformational shakedown. Applied Physics Letters, 2008, 92, 121909.	3.3	19
124	Z-pin bridging in composite delamination. , 2008, , 674-705.		1
125	EFFECT OF TRANSFORMATION VOLUME STRAIN ON THE SPHERICAL INDENTATION OF SHAPE MEMORY ALLOYS. International Journal of Modern Physics B, 2008, 22, 5957-5964.	2.0	5
126	MECHANICAL PROPERTIES OF TITANIUM FOAM FOR BIOMEDICAL APPLICATIONS. International Journal of Modern Physics B, 2008, 22, 6155-6160.	2.0	8

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127	Crushing Simulation of Foam-Filled Aluminium Tubes. <i>Materials Transactions</i> , 2007, 48, 1901-1906.	1.2	22
128	Nanofretting behaviors of NiTi shape memory alloy. <i>Wear</i> , 2007, 263, 501-507.	3.1	18
129	Experimental study on effect of loading rate on mode I delamination of z-pin reinforced laminates. <i>Composites Science and Technology</i> , 2007, 67, 1294-1301.	7.8	57
130	Analysis of spherical indentation of superelastic shape memory alloys. <i>International Journal of Solids and Structures</i> , 2007, 44, 1-17.	2.7	72
131	Z-pin bridging in composite laminates and some related problems. <i>Australian Journal of Mechanical Engineering</i> , 2006, 3, 11-19.	2.1	2
132	Spherical indentation hardness of shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 425, 278-285.	5.6	29
133	Theoretical investigation of wear-resistance mechanism of superelastic shape memory alloy NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 427, 348-355.	5.6	57
134	Indentation Hardness Analysis of Superelastic Shape Memory Alloys. <i>Key Engineering Materials</i> , 2006, 312, 333-338.	0.4	0
135	Determination of transformation stresses of shape memory alloy thin films: A method based on spherical indentation. <i>Applied Physics Letters</i> , 2006, 88, 241912.	3.3	25
136	Theoretical Consideration on the Fracture of Shape Memory Alloys. , 2006, , 217-226.		3
137	Numerical Study on Buckling of Z-pinned Composite Laminates. , 2004, , 307-312.		2
138	Mode II delamination toughness of z-pinned laminates. <i>Composites Science and Technology</i> , 2004, 64, 1937-1945.	7.8	98
139	Experimental study on z-pin bridging law by pullout test. <i>Composites Science and Technology</i> , 2004, 64, 2451-2457.	7.8	108
140	Numerical study on the mode I delamination toughness of z-pinned laminates. <i>Composites Science and Technology</i> , 2003, 63, 1481-1493.	7.8	99
141	Theoretical modelling of the effect of plasticity on reverse transformation in superelastic shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 354, 146-157.	5.6	50
142	Z-Pin Bridging Force in Composite Delamination. <i>European Structural Integrity Society</i> , 2003, 32, 491-502.	0.1	10
143	Effect of transformation volume contraction on the toughness of superelastic shape memory alloys. <i>Smart Materials and Structures</i> , 2002, 11, 947-955.	3.5	50
144	Numerical study of sliding wear caused by a loaded pin on a rotating disc. <i>Journal of the Mechanics and Physics of Solids</i> , 2002, 50, 449-470.	4.8	48

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145	Application of probabilistic fracture mechanics to a dynamic loading situation using the example of a dynamic tension test for ceramics. <i>Journal of the European Ceramic Society</i> , 2000, 20, 901-911.	5.7	14
146	Applicability of the Hertz contact theory to rail-wheel contact problems. <i>Archive of Applied Mechanics</i> , 2000, 70, 255-268.	2.2	103
147	A micromechanics investigation of sliding wear in coated components. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000, 456, 2387-2407.	2.1	30
148	Stress-strain relation of CuAlNi SMA single crystal under biaxial loading constitutive model and experiments. <i>Acta Materialia</i> , 1998, 47, 269-280.	7.9	24
149	A generalized micromechanics constitutive theory of single crystal with thermoelastic martensitic transformation. <i>Science in China Series A: Mathematics</i> , 1998, 41, 878-886.	0.5	6
150	Micromechanical study on the morphology of martensite in constrained zirconia. <i>Acta Materialia</i> , 1997, 45, 1969-1976.	7.9	18
151	A continuum analysis of transformation plastic localization in ceramics. <i>International Journal of Plasticity</i> , 1997, 13, 201-213.	8.8	5
152	Thermal stresses for frictional contact in wheel-rail systems. <i>Wear</i> , 1997, 211, 156-163.	3.1	37
153	Numerical Modeling of Graphene/Polymer Interfacial Behaviour Using Peel Test. <i>Advanced Materials Research</i> , 0, 891-892, 1119-1124.	0.3	1
154	On Constitutive Models for Ratcheting of a High Strength Rail Steel. <i>Advanced Materials Research</i> , 0, 891-892, 1146-1151.	0.3	3
155	An Application of Bi-Directional Evolutionary Structural Optimisation for Optimising Energy Absorbing Structures Using a Material Damage Model. <i>Applied Mechanics and Materials</i> , 0, 553, 836-841.	0.2	2
156	On the Evaluation of the Stress State in Rail Head for Assessing Fatigue Resistance. <i>Advanced Materials Research</i> , 0, 891-892, 1157-1162.	0.3	2