

Zhiliang Zhang

List of Publications by Year in descending order

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306
papers

7,843
citations

50276

46
h-index

88630

70
g-index

311
all docs

311
docs citations

311
times ranked

5388
citing authors

#	ARTICLE	IF	CITATIONS
1	A complete Gurson model approach for ductile fracture. <i>Engineering Fracture Mechanics</i> , 2000, 67, 155-168.	4.3	291
2	Determining material true stress-strain curve from tensile specimens with rectangular cross-section. <i>International Journal of Solids and Structures</i> , 1999, 36, 3497-3516.	2.7	197
3	Application of nanoindentation testing to study of the interfacial transition zone in steel fiber reinforced mortar. <i>Cement and Concrete Research</i> , 2009, 39, 701-715.	11.0	189
4	Review on fracture and crack propagation in weldments – A fracture mechanics perspective. <i>Engineering Fracture Mechanics</i> , 2014, 132, 200-276.	4.3	167
5	An Optimal Control Method for Buck Converters Using a Practical Capacitor Charge Balance Technique. <i>IEEE Transactions on Power Electronics</i> , 2008, 23, 1802-1812.	7.9	154
6	Multiscale crack initiator promoted super-low ice adhesion surfaces. <i>Soft Matter</i> , 2017, 13, 6562-6568.	2.7	150
7	Predicting mechanical response of crosslinked epoxy using ReaxFF. <i>Chemical Physics Letters</i> , 2014, 591, 175-178.	2.6	133
8	A Practical Switching Loss Model for Buck Voltage Regulators. <i>IEEE Transactions on Power Electronics</i> , 2009, 24, 700-713.	7.9	128
9	A Current Source Gate Driver Achieving Switching Loss Savings and Gate Energy Recovery at 1-MHz. <i>IEEE Transactions on Power Electronics</i> , 2008, 23, 678-691.	7.9	121
10	Enhancing the Mechanical Durability of Icephobic Surfaces by Introducing Autonomous Self-Healing Function. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11972-11978.	8.0	99
11	Mechanical instability of monocrystalline and polycrystalline methane hydrates. <i>Nature Communications</i> , 2015, 6, 8743.	12.8	93
12	Simultaneously Toughening and Stiffening Elastomers with Octuple Hydrogen Bonding. <i>Advanced Materials</i> , 2021, 33, e2008523.	21.0	92
13	Stress-strain curves of metallic materials and post-necking strain hardening characterization: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 3-19.	3.4	89
14	Design and preparation of sandwich-like polydimethylsiloxane (PDMS) sponges with super-low ice adhesion. <i>Soft Matter</i> , 2018, 14, 4846-4851.	2.7	86
15	Role of Five-fold Twin Boundary on the Enhanced Mechanical Properties of fcc Fe Nanowires. <i>Nano Letters</i> , 2011, 11, 5264-5273.	9.1	85
16	Grain-Size-Controlled Mechanical Properties of Polycrystalline Monolayer MoS ₂ . <i>Nano Letters</i> , 2018, 18, 1543-1552.	9.1	82
17	The need for standards in low ice adhesion surface research: a critical review. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 319-347.	2.6	76
18	Optimal Design of Resonant Gate Driver for Buck Converter Based on a New Analytical Loss Model. <i>IEEE Transactions on Power Electronics</i> , 2008, 23, 653-666.	7.9	75

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19	A new failure criterion for the Gurson-Tvergaard dilational constitutive model. International Journal of Fracture, 1995, 70, 321-334.	2.2	74
20	Explicit consistent tangent moduli with a return mapping algorithm for pressure-dependent elastoplasticity models. Computer Methods in Applied Mechanics and Engineering, 1995, 121, 29-44.	6.6	73
21	Two-parameter characterization of the near-tip stress fields for a bi-material elastic-plastic interface crack. International Journal of Fracture, 1996, 79, 65-83.	2.2	71
22	Room Temperature Characteristics of Polymer-Based Low Ice Adhesion Surfaces. Scientific Reports, 2017, 7, 42181.	3.3	71
23	One-Step Fabrication of Bioinspired Lubricant-Regenerable Icephobic Slippery Liquid-Infused Porous Surfaces. ACS Omega, 2018, 3, 10139-10144.	3.5	68
24	Phase transition enabled durable anti-icing surfaces and its DIY design. Chemical Engineering Journal, 2019, 360, 243-249.	12.7	68
25	Influence of specimen thickness with rectangular cross-section on the tensile properties of structural steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 601-605.	5.6	65
26	Self-Deicing Electrolyte Hydrogel Surfaces with Pa-level Ice Adhesion and Durable Antifreezing/Antifrost Performance. ACS Applied Materials & Interfaces, 2020, 12, 35572-35578.	8.0	65
27	A 1-MHz High-Efficiency 12-V Buck Voltage Regulator With a New Current-Source Gate Driver. IEEE Transactions on Power Electronics, 2008, 23, 2817-2827.	7.9	64
28	Giant Stretchability and Reversibility of Tightly Wound Helical Carbon Nanotubes. Journal of the American Chemical Society, 2013, 135, 13775-13785.	13.7	62
29	Displacement Mechanism of Oil in Shale Inorganic Nanopores by Supercritical Carbon Dioxide from Molecular Dynamics Simulations. Energy & Fuels, 2017, 31, 738-746.	5.1	62
30	Competitive adsorption and diffusion of CH ₄ /CO ₂ binary mixture within shale organic nanochannels. Journal of Natural Gas Science and Engineering, 2018, 53, 329-336.	4.4	62
31	Digital Charge Balance Controller to Improve the Loading/Unloading Transient Response of Buck Converters. IEEE Transactions on Power Electronics, 2012, 27, 1314-1326.	7.9	61
32	Cement sheath modification using nanomaterials for long-term zonal isolation of oil wells: Review. Journal of Petroleum Science and Engineering, 2017, 156, 662-672.	4.2	60
33	The effect of ice type on ice adhesion. AIP Advances, 2019, 9, .	1.3	60
34	CuO/Cu based superhydrophobic and self-cleaning surfaces. Scripta Materialia, 2016, 118, 60-64.	5.2	59
35	A uniform hydrogen degradation law for high strength steels. Engineering Fracture Mechanics, 2016, 157, 56-71.	4.3	56
36	A SENSITIVITY ANALYSIS OF MATERIAL PARAMETERS FOR THE GURSON CONSTITUTIVE MODEL. Fatigue and Fracture of Engineering Materials and Structures, 1996, 19, 561-570.	3.4	54

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37	A notched cross weld tensile testing method for determining true stress-strain curves for weldments. <i>Engineering Fracture Mechanics</i> , 2002, 69, 353-366.	4.3	54
38	Numerical simulations of specimen size and mismatch effects in ductile crack growth – Part I: Tearing resistance and crack growth paths. <i>Engineering Fracture Mechanics</i> , 2007, 74, 1770-1792.	4.3	54
39	Controlled Auxiliary Circuit to Improve the Unloading Transient Response of Buck Converters. <i>IEEE Transactions on Power Electronics</i> , 2010, 25, 806-819.	7.9	53
40	Liquid layer generators for excellent icephobicity at extremely low temperatures. <i>Materials Horizons</i> , 2019, 6, 2063-2072.	12.2	53
41	Anti-icing Ionogel Surfaces: Inhibiting Ice Nucleation, Growth, and Adhesion. , 2020, 2, 616-623.		52
42	Nanoscale deicing by molecular dynamics simulation. <i>Nanoscale</i> , 2016, 8, 14625-14632.	5.6	51
43	Size effect on mechanical properties of micron-sized PS-DVB polymer particles. <i>Polymer</i> , 2008, 49, 3993-3999.	3.8	49
44	Dynamic Anti-Icing Surfaces (DAIS). <i>Advanced Science</i> , 2021, 8, e2101163.	11.2	49
45	Gels as emerging anti-icing materials: a mini review. <i>Materials Horizons</i> , 2021, 8, 3266-3280.	12.2	49
46	Effects of crack depth and specimen size on ductile crack growth of SENT and SENB specimens for fracture mechanics evaluation of pipeline steels. <i>International Journal of Pressure Vessels and Piping</i> , 2009, 86, 787-797.	2.6	48
47	An ultra-durable icephobic coating by a molecular pulley. <i>Soft Matter</i> , 2019, 15, 3607-3611.	2.7	47
48	Effect of residual stresses on the crack-tip constraint in a modified boundary layer model. <i>International Journal of Solids and Structures</i> , 2009, 46, 2629-2641.	2.7	46
49	Discontinuous-Current-Source Drivers for High-Frequency Power MOSFETs. <i>IEEE Transactions on Power Electronics</i> , 2010, 25, 1863-1876.	7.9	46
50	Constraint effect on the ductile crack growth resistance of circumferentially cracked pipes. <i>Engineering Fracture Mechanics</i> , 2010, 77, 671-684.	4.3	46
51	Avoiding snow and ice accretion on building integrated photovoltaics – challenges, strategies, and opportunities. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110306.	6.2	45
52	ANALYZING DUCTILE FRACTURE USING DUAL DILATIONAL CONSTITUTIVE EQUATIONS. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1994, 17, 695-707.	3.4	44
53	Nanohinge-Induced Plasticity of Helical Carbon Nanotubes. <i>Small</i> , 2013, 9, 3561-3566.	10.0	44
54	Interlaboratory Study of Ice Adhesion Using Different Techniques. <i>Coatings</i> , 2019, 9, 678.	2.6	44

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55	A method for determining elastic properties of micron-sized polymer particles by using flat punch test. <i>Computational Materials Science</i> , 2007, 39, 305-314.	3.0	43
56	A Nonisolated ZVS Asymmetrical Buck Voltage Regulator Module With Direct Energy Transfer. <i>IEEE Transactions on Industrial Electronics</i> , 2009, 56, 3096-3105.	7.9	42
57	On the accuracies of numerical integration algorithms for Gurson-based pressure-dependent elastoplastic constitutive models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1995, 121, 15-28.	6.6	41
58	Determining true stress-strain curve for isotropic and anisotropic materials with rectangular tensile bars: method and verifications. <i>Computational Materials Science</i> , 2001, 20, 77-85.	3.0	40
59	A New High Efficiency Current Source Driver With Bipolar Gate Voltage. <i>IEEE Transactions on Power Electronics</i> , 2012, 27, 985-997.	7.9	40
60	Ultrafast self-healing and highly transparent coating with mechanically durable icephobicity. <i>Applied Materials Today</i> , 2020, 19, 100542.	4.3	40
61	Residual stress induced crack tip constraint. <i>Engineering Fracture Mechanics</i> , 2008, 75, 4151-4166.	4.3	39
62	Effects of crack size and weld metal mismatch on the has cleavage toughness of wide plates. <i>Engineering Fracture Mechanics</i> , 1997, 57, 653-664.	4.3	38
63	Loading and unloading of a spherical contact: From elastic to elastic-perfectly plastic materials. <i>International Journal of Mechanical Sciences</i> , 2012, 56, 70-76.	6.7	37
64	Nature-inspired entwined coiled carbon mechanical metamaterials: molecular dynamics simulations. <i>Nanoscale</i> , 2018, 10, 15641-15653.	5.6	37
65	A class of generalized mid-point algorithms for the Gurson-Tvergaard material model. <i>International Journal for Numerical Methods in Engineering</i> , 1995, 38, 2033-2053.	2.8	36
66	A study on determining true stress-strain curve for anisotropic materials with rectangular tensile bars. <i>International Journal of Solids and Structures</i> , 2001, 38, 4489-4505.	2.7	36
67	Effect of silica fume, steel fiber and ITZ on the strength and fracture behavior of mortar. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010, 43, 125-139.	3.1	36
68	Studies on the ductility predictions by different local failure criteria. <i>Engineering Fracture Mechanics</i> , 1994, 48, 529-540.	4.3	35
69	Constraint correction of high strength steel. <i>Engineering Fracture Mechanics</i> , 2004, 71, 2417-2433.	4.3	35
70	Effect of residual stresses on ductile crack growth resistance. <i>Engineering Fracture Mechanics</i> , 2010, 77, 1325-1337.	4.3	35
71	A SERS Study on the Assembly Behavior of Gold Nanoparticles at the Oil/Water Interface. <i>Langmuir</i> , 2015, 31, 12911-12919.	3.5	35
72	A 10-MHz eGaN Isolated Class- 2 DCX. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 2029-2040.	7.9	35

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73	Understanding the role of hollow sub-surface structures in reducing ice adhesion strength. <i>Soft Matter</i> , 2019, 15, 2905-2910.	2.7	35
74	Design and preparation of icephobic PDMS-based coatings by introducing an aqueous lubricating layer and macro-crack initiators at the ice-substrate interface. <i>Progress in Organic Coatings</i> , 2020, 147, 105737.	3.9	35
75	MOSFET Switching Loss Model and Optimal Design of a Current Source Driver Considering the Current Diversion Problem. <i>IEEE Transactions on Power Electronics</i> , 2012, 27, 998-1012.	7.9	34
76	Design of Icephobic Surfaces by Lowering Ice Adhesion Strength: A Mini Review. <i>Coatings</i> , 2021, 11, 1343.	2.6	34
77	Thermomechanical properties dependence on chain length in bulk polyethylene: Coarse-grained molecular dynamics simulations. <i>Journal of Materials Research</i> , 2010, 25, 537-544.	2.6	33
78	A 1-MHz, 12-V ZVS Nonisolated Full-Bridge VRM With Gate Energy Recovery. <i>IEEE Transactions on Power Electronics</i> , 2010, 25, 624-636.	7.9	33
79	A three-dimensional finite element for gradient elasticity based on a mixed-type formulation. <i>Computational Materials Science</i> , 2012, 52, 268-273.	3.0	33
80	Common-Mode Noise Modeling and Reduction for 1-MHz eGaN Multioutput DC-DC Converters. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 3239-3254.	7.9	33
81	Degradation of TiB ₂ ceramics in liquid aluminum. <i>Journal of the European Ceramic Society</i> , 2008, 28, 3155-3164.	5.7	32
82	Viscous regularization for cohesive zone modeling under constant displacement: An application to hydrogen embrittlement simulation. <i>Engineering Fracture Mechanics</i> , 2016, 166, 23-42.	4.3	32
83	Switching Loss Analysis Considering Parasitic Loop Inductance With Current Source Drivers for Buck Converters. <i>IEEE Transactions on Power Electronics</i> , 2011, 26, 1815-1819.	7.9	31
84	Durable Low Ice Adhesion Foams Modulated by Submicrometer Pores. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17776-17783.	3.7	31
85	Enabling phase transition of infused lubricant in porous structure for exceptional oil/water separation. <i>Journal of Hazardous Materials</i> , 2020, 390, 122176.	12.4	30
86	Nanomechanical characterization of single micron-sized polymer particles. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1398-1405.	2.6	29
87	Crosslinking effect on the deformation and fracture of monodisperse polystyrene-co-divinylbenzene particles. <i>EXPRESS Polymer Letters</i> , 2013, 7, 365-374.	2.1	29
88	A Digital Adaptive Discontinuous Current Source Driver for High-Frequency Interleaved Boost PFC Converters. <i>IEEE Transactions on Power Electronics</i> , 2014, 29, 1298-1310.	7.9	29
89	A 3D numerical study of ductile tearing and fatigue crack growth under nominal cyclic plasticity. <i>International Journal of Solids and Structures</i> , 1997, 34, 3141-3161.	2.7	28
90	Application of local approach to inhomogeneous welds. Influence of crack position and strength mismatch. <i>Engineering Fracture Mechanics</i> , 1999, 62, 445-462.	4.3	28

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91	Adaptive Current Source Drivers for Efficiency Optimization of High-Frequency Synchronous Buck Converters. IEEE Transactions on Power Electronics, 2012, 27, 2462-2470.	7.9	28
92	Thermal conductivity of carbon nanocoils. Applied Physics Letters, 2013, 103, .	3.3	28
93	A method for determining material's equivalent stress-strain curve with any axisymmetric notched tensile specimens without Bridgman correction. International Journal of Mechanical Sciences, 2018, 135, 656-667.	6.7	28
94	Effect of spherical micro-voids in shape memory alloys subjected to uniaxial loading. International Journal of Solids and Structures, 2012, 49, 1947-1960.	2.7	27
95	A High-Frequency Dual-Channel Isolated Resonant Gate Driver With Low Gate Drive Loss for ZVS Full-Bridge Converters. IEEE Transactions on Power Electronics, 2014, 29, 3077-3090.	7.9	27
96	A framework for fracture assessments of dissimilar girth welds in offshore pipelines under bending. Engineering Fracture Mechanics, 2016, 163, 66-88.	4.3	26
97	Effect of microstructure on the impact toughness transition temperature of direct-quenched steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 671-680.	5.6	26
98	Epidermal Gland Inspired Self-Repairing Slippery Lubricant-Infused Porous Coatings with Durable Low Ice Adhesion. Coatings, 2019, 9, 602.	2.6	26
99	Morphology-Controlled Tensile Mechanical Characteristics in Graphene Allotropes. ACS Omega, 2017, 2, 3977-3988.	3.5	26
100	Effect of hydrogen on the collective behavior of dislocations in the case of nanoindentation. Acta Materialia, 2018, 148, 18-27.	7.9	25
101	Topology and polarity of dislocation cores dictate the mechanical strength of monolayer MoS ₂ . Applied Materials Today, 2019, 15, 34-42.	4.3	24
102	Constitutive modeling of intrinsic silicon monocrystals in easy glide. Journal of Applied Physics, 2010, 107, .	2.5	23
103	Loading rate effects on the fracture of Ni/Au nano-coated acrylic particles. EXPRESS Polymer Letters, 2012, 6, 198-203.	2.1	23
104	Selective growth of metallic nanostructures on microstructured copper substrate in solution. CrystEngComm, 2015, 17, 7262-7269.	2.6	23
105	Adaptive Continuous Current Source Drivers for 1-MHz Boost PFC Converters. IEEE Transactions on Power Electronics, 2013, 28, 2457-2467.	7.9	22
106	Ultrasound-assisted handling force reduction during the solar silicon wafers production. Ultrasonics, 2014, 54, 1057-1064.	3.9	22
107	A special notched tensile specimen to determine the flow stress-strain curve of hardening materials without applying the Bridgman correction. Engineering Fracture Mechanics, 2017, 179, 225-239.	4.3	22
108	Atomistic dewetting mechanics of Wenzel and monostable Cassie-Baxter states. Physical Chemistry Chemical Physics, 2018, 20, 24759-24767.	2.8	22

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109	A 1-kV Input SiC <i>LLC</i> Converter With Split Resonant Tanks and Matrix Transformers. IEEE Transactions on Power Electronics, 2019, 34, 10446-10457.	7.9	22
110	On the interrelationship between fracture toughness and material mismatch for cracks located at the fusion line of weldments. Engineering Fracture Mechanics, 1999, 64, 367-382.	4.3	21
111	Effect of plastic prestrain on the crack tip constraint of pipeline steels. International Journal of Pressure Vessels and Piping, 2007, 84, 708-715.	2.6	21
112	Void Coalescence With and Without Prestrain History. International Journal of Damage Mechanics, 2010, 19, 153-174.	4.2	21
113	Electron-irradiation-induced reinforcement of reduced graphene oxide papers. Acta Materialia, 2013, 61, 6466-6473.	7.9	21
114	Nanoconfined Water Dynamics in Multilayer Graphene Nanopores. Journal of Physical Chemistry C, 2020, 124, 17819-17828.	3.1	21
115	Numerical simulations of specimen size and mismatch effects in ductile crack growth – Part II: Near-tip stress fields. Engineering Fracture Mechanics, 2007, 74, 1793-1809.	4.3	20
116	A High Efficiency Synchronous Buck VRM with Current Source Gate Driver. , 2007, , .		20
117	Cohesive zone modeling of grain boundary microcracking induced by thermal anisotropy in titanium diboride ceramics. Computational Materials Science, 2008, 43, 440-449.	3.0	20
118	Continuum modeling of the cohesive energy for the interfaces between films, spheres, coats and substrates. Computational Materials Science, 2015, 96, 432-438.	3.0	20
119	Electromechanical characterization of individual micron-sized metal coated polymer particles. Journal of Applied Physics, 2016, 119, .	2.5	20
120	Cohesive zone simulation of grain size and misorientation effects on hydrogen embrittlement in nickel. Engineering Failure Analysis, 2017, 81, 79-93.	4.0	20
121	Hydrogen-microvoid interactions at continuum scale. International Journal of Hydrogen Energy, 2018, 43, 10104-10128.	7.1	20
122	Dislocation based plasticity in the case of nanoindentation. International Journal of Mechanical Sciences, 2018, 148, 158-173.	6.7	20
123	Enabling sequential rupture for lowering atomistic ice adhesion. Nanoscale, 2019, 11, 16262-16269.	5.6	20
124	Nanoscale Correlations of Ice Adhesion Strength and Water Contact Angle. Coatings, 2020, 10, 379.	2.6	20
125	Enhancement of Thermal Boundary Conductance of Metal–Polymer System. Nanomaterials, 2020, 10, 670.	4.1	20
126	Multifunction Capability of SiC Bidirectional Portable Chargers for Electric Vehicles. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6184-6195.	5.4	20

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127	Fracture of notched round-bar NiTi-specimens. <i>Engineering Fracture Mechanics</i> , 2012, 84, 1-14.	4.3	19
128	Control of surface wettability via strain engineering. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013, 29, 543-549.	3.4	19
129	Fracture and negative Poisson's ratio of novel spanned-fullerenes nanotube networks under tension. <i>Computational Materials Science</i> , 2013, 80, 15-26.	3.0	19
130	Quantitative 3D X-ray Imaging of Densification, Delamination and Fracture in a Micro-Composite under Compression. <i>Advanced Engineering Materials</i> , 2015, 17, 545-553.	3.5	19
131	Effects of loading path on the fracture loci in a 3D space. <i>Engineering Fracture Mechanics</i> , 2016, 151, 22-36.	4.3	19
132	Fracture toughness of hydrogen charged as-quenched ultra-high-strength steels at low temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 190-201.	5.6	19
133	A 6.6kW SiC bidirectional on-board charger. , 2018, , .		19
134	Hydrogen informed Gurson model for hydrogen embrittlement simulation. <i>Engineering Fracture Mechanics</i> , 2019, 217, 106542.	4.3	19
135	Coil Positioning Based on DC Pre-excitation and Magnetic Sensing for Wireless Electric Vehicle Charging. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 3820-3830.	7.9	19
136	Thermal Transport in Polyethylene: The Effect of Force Fields and Crystallinity. <i>Macromolecules</i> , 2021, 54, 6563-6574.	4.8	19
137	Numerical study on the effect of prestrain history on ductile fracture resistance by using the complete Gurson model. <i>Engineering Fracture Mechanics</i> , 2008, 75, 4568-4582.	4.3	18
138	Numerical study on the heat storing capacity of concrete walls with air cavities. <i>Energy and Buildings</i> , 2009, 41, 769-773.	6.7	18
139	Effect of notches on the behavior of superelastic round-bar NiTi-specimens. <i>Smart Materials and Structures</i> , 2011, 20, 025014.	3.5	18
140	Determining critical CTOA from energy-load curves with DWTT specimen. <i>Engineering Fracture Mechanics</i> , 2017, 186, 47-58.	4.3	18
141	Displacement of nanofluids in silica nanopores: influenced by wettability of nanoparticles and oil components. <i>Environmental Science: Nano</i> , 2018, 5, 2641-2650.	4.3	18
142	Modeling and Design of Contactless Sliprings for Rotary Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 4130-4140.	7.9	18
143	Size-dependent elastic properties of crystalline polymers via a molecular mechanics model. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	17
144	Deformation and Stability of Core-Shell Microgels at Oil/Water Interface. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14793-14798.	3.7	17

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145	Magnetically Enhanced Mechanical Stability and Super-Size Effects in Self-Assembled Superstructures of Nanocubes. <i>Advanced Functional Materials</i> , 2019, 29, 1904825.	14.9	17
146	Effects of local grain size and inclusions on the low-temperature toughness of low-carbon as-quenched martensite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 611-622.	5.6	17
147	SiC MOSFETs Gate Driver With Minimum Propagation Delay Time and Auxiliary Power Supply With Wide Input Voltage Range for High-Temperature Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 417-428.	5.4	17
148	Efficiency Optimization Based Parameter Design Method for the Capacitive Power Transfer System. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 8774-8785.	7.9	17
149	A Simple Analytical Switching Loss Model for Buck Voltage Regulators. , 2008, , .		16
150	Fracture of micrometre-sized Ni/Au coated polymer particles. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 085405.	2.8	16
151	Ductile mechanisms of metals containing pre-existing nanovoids. <i>Computational Materials Science</i> , 2016, 125, 36-50.	3.0	16
152	Effect of Nanoparticles on Spontaneous Imbibition of Water into Ultraconfined Reservoir Capillary by Molecular Dynamics Simulation. <i>Energies</i> , 2017, 10, 506.	3.1	16
153	A Sensorless Model-Based Digital Driving Scheme for Synchronous Rectification in 1-kV Input 1-MHz GaN <i>LLC</i> Converters. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 8359-8369.	7.9	16
154	Nanomechanical characteristics of trapped oil droplets with nanoparticles: A molecular dynamics simulation. <i>Journal of Petroleum Science and Engineering</i> , 2021, 203, 108649.	4.2	16
155	Title is missing!. <i>International Journal of Fracture</i> , 1999, 99, 211-237.	2.2	15
156	Mechanical properties of nanostructured polymer particles for anisotropic conductive adhesives. <i>International Journal of Materials Research</i> , 2007, 98, 389-392.	0.3	15
157	Constraint effects on crack tip stress fields for cracks located at the fusion line of weldments. <i>Computational Materials Science</i> , 1999, 15, 275-284.	3.0	14
158	From microstructure to deformation and fracture behaviour of aluminium welded joints – a holistic modelling approach. <i>Computational Materials Science</i> , 2001, 21, 429-435.	3.0	14
159	Title is missing!. <i>International Journal of Fracture</i> , 2001, 111, 87-103.	2.2	14
160	Compression properties of individual micron-sized acrylic particles. <i>Materials Letters</i> , 2009, 63, 1696-1698.	2.6	14
161	Effect of Nanoparticles on Oil-Water Flow in a Confined Nanochannel: A Molecular Dynamics Study. , 2012, , .		14
162	Size-dependent mechanical behavior of nanoscale polymer particles through coarse-grained molecular dynamics simulation. <i>Nanoscale Research Letters</i> , 2013, 8, 541.	5.7	14

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163	Molecular dynamics study of di-CF ₄ based reverse micelles in supercritical CO ₂ . Physical Chemistry Chemical Physics, 2016, 18, 29156-29163.	2.8	14
164	Contact area measurement of micron-sized metal-coated polymer particles under compression. International Journal of Mechanical Sciences, 2020, 165, 105214.	6.7	14
165	Unraveling Adhesion Strength between Gas Hydrate and Solid Surfaces. Langmuir, 2021, 37, 13873-13881.	3.5	14
166	Anti-gas hydrate surfaces: perspectives, progress and prospects. Journal of Materials Chemistry A, 2022, 10, 379-406.	10.3	14
167	Optimal Design of Current Source Gate Driver for a Buck Voltage Regulator Based on a New Analytical Loss Model. , 2007, , .		13
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