

Zhiliang Zhang

List of Publications by Year in descending order

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306
papers

7,843
citations

50170

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all docs

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docs citations

311
times ranked

5388
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for predicting the local stress-strain behaviors of additively manufactured multiphase alloys in the sequential layers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142367.	2.6	5
2	Anti-gas hydrate surfaces: perspectives, progress and prospects. <i>Journal of Materials Chemistry A</i> , 2022, 10, 379-406.	5.2	14
3	Thermal transport in silver-coated polymer sphere composites by the bidirectional $3\langle i \rangle \%$ method. <i>Journal of Applied Physics</i> , 2022, 131, 125107.	1.1	1
4	Atomistic Insights into the Droplet Size Evolution during Self-Microemulsification. <i>Langmuir</i> , 2022, 38, 3129-3138.	1.6	3
5	Assembly of Graphene Platelets for Bioinspired, Stimuli-Responsive, Low Ice Adhesion Surfaces. <i>ACS Omega</i> , 2022, 7, 10225-10234.	1.6	0
6	A microstructure informed and mixed-mode cohesive zone approach to simulating hydrogen embrittlement. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 17479-17493.	3.8	6
7	Simulation of ductile-to-brittle transition combining complete Gurson model and CZM with application to hydrogen embrittlement. <i>Engineering Fracture Mechanics</i> , 2022, 268, 108511.	2.0	12
8	Towards the "sustainable" operation at -30°C without the expense of energy for heating on-face electronics: Intelligent heat conservation and waste heat utilization. <i>Energy Reports</i> , 2022, 8, 6753-6763.	2.5	1
9	Phonon thermal transport in copper: The effect of size, crystal orientation, and grain boundaries. <i>AIP Advances</i> , 2022, 12, .	0.6	2
10	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.	5.2	19
11	A framework for classification of snow- and icephobicity. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1087-1098.	1.4	4
12	A multi-barrier model assisted CAFE method for predicting ductile-to-brittle transition with application to a low-carbon ultrahigh-strength steel. <i>Mechanics of Materials</i> , 2021, 153, 103669.	1.7	4
13	Inductor Current Step Control with Input Voltage Feedforward for Fast Load Transient of Energy Recycling DC Electronic Load. <i>IEEE Transactions on Power Electronics</i> , 2021, , 1-1.	5.4	1
14	Reconfigurable Mechanical Anisotropy in Self-Assembled Magnetic Superstructures. <i>Advanced Science</i> , 2021, 8, 2002683.	5.6	6
15	Simultaneously Toughening and Stiffening Elastomers with Octuple Hydrogen Bonding. <i>Advanced Materials</i> , 2021, 33, e2008523.	11.1	92
16	Thermal Transport in Polyethylene: The Effect of Force Fields and Crystallinity. <i>Macromolecules</i> , 2021, 54, 6563-6574.	2.2	19
17	A Sensorless Model-Based Digital Driving Scheme for Synchronous Rectification in 1-kV Input 1-MHz GaN $\langle i \rangle \%$ Converters. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 8359-8369.	5.4	16
18	Efficiency Optimization Based Parameter Design Method for the Capacitive Power Transfer System. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 8774-8785.	5.4	17

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19	Nanomechanical characteristics of trapped oil droplets with nanoparticles: A molecular dynamics simulation. <i>Journal of Petroleum Science and Engineering</i> , 2021, 203, 108649.	2.1	16
20	Dynamic Anti-Icing Surfaces (DAIS). <i>Advanced Science</i> , 2021, 8, e2101163.	5.6	49
21	Linear-Nonlinear Optimal Step Control for 1-kV SiC LLC Converters With Pulse Loads. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 12008-12018.	5.4	3
22	Multifunction Capability of SiC Bidirectional Portable Chargers for Electric Vehicles. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 6184-6195.	3.7	20
23	Triple-Coil-Structure-Based Coil Positioning System for Wireless EV Charger. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 13515-13525.	5.4	13
24	Gels as emerging anti-icing materials: a mini review. <i>Materials Horizons</i> , 2021, 8, 3266-3280.	6.4	49
25	Machine Learning Based Prediction of Nanoscale Ice Adhesion on Rough Surfaces. <i>Coatings</i> , 2021, 11, 33.	1.2	9
26	Design of Icephobic Surfaces by Lowering Ice Adhesion Strength: A Mini Review. <i>Coatings</i> , 2021, 11, 1343.	1.2	34
27	Unraveling Adhesion Strength between Gas Hydrate and Solid Surfaces. <i>Langmuir</i> , 2021, 37, 13873-13881.	1.6	14
28	Contact area measurement of micron-sized metal-coated polymer particles under compression. <i>International Journal of Mechanical Sciences</i> , 2020, 165, 105214.	3.6	14
29	Four-point transient potential drop measurements on metal plates. <i>Measurement Science and Technology</i> , 2020, 31, 024006.	1.4	2
30	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.	1.7	89
31	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.	1.4	76
32	Effect of grain boundary on the crack-tip plasticity under hydrogen environment: An atomistic study. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	3
33	Ultrafast self-healing and highly transparent coating with mechanically durable icephobicity. <i>Applied Materials Today</i> , 2020, 19, 100542.	2.3	40
34	Effect of thermal residual stresses on ductile-to-brittle transition of a bi-material specimen by using the CAFE method. <i>European Journal of Mechanics, A/Solids</i> , 2020, 80, 103889.	2.1	2
35	Analysis and Improvement of Capacitance Effects in 360-800 Hz Variable On-Time Controlled CRM Boost PFC Converters. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 7480-7491.	5.4	10
36	1-kV Input 1-MHz GaN Stacked Bridge LLC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 9227-9237.	5.2	6

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37	Avoiding snow and ice accretion on building integrated photovoltaics “ challenges, strategies, and opportunities. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110306.	3.0	45
38	Stability, deformation and rupture of Janus oligomer enabled self-emulsifying water-in-oil microemulsion droplets. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24907-24916.	1.3	4
39	A Sensorless Synchronous Rectification Driving Scheme in 1-kV Input 1-MHz GaN LLC Converters with Matrix Transformers*. , 2020, , .		0
40	Modelling the combined effects of hydrogen traps and surface films on hydrogen permeation in ferritic steels. <i>Anti-Corrosion Methods and Materials</i> , 2020, 67, 240-247.	0.6	1
41	Self-Deicing Electrolyte Hydrogel Surfaces with Pa-level Ice Adhesion and Durable Antifreezing/Antifrost Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35572-35578.	4.0	65
42	Nanoconfined Water Dynamics in Multilayer Graphene Nanopores. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17819-17828.	1.5	21
43	Extraordinary Response of H-Charged and H-Free Coherent Grain Boundaries in Nickel to Multiaxial Loading. <i>Crystals</i> , 2020, 10, 590.	1.0	4
44	Insight into the pressure-induced displacement mechanism for selecting efficient nanofluids in various capillaries. <i>Environmental Science: Nano</i> , 2020, 7, 2785-2794.	2.2	11
45	Anti-icing Ionogel Surfaces: Inhibiting Ice Nucleation, Growth, and Adhesion. , 2020, 2, 616-623.		52
46	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.	1.9	35
47	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.	3.7	17
48	The effects of morphology and temperature on the tensile characteristics of carbon nitride nanofibers. <i>Nanoscale</i> , 2020, 12, 12462-12475.	2.8	8
49	Wide Input Voltage DC Electronic Load Architecture With SiC MOSFETs for High Efficiency Energy Recycling. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 13053-13067.	5.4	8
50	CO ₂ wetting on pillar-nanostructured substrates. <i>Nanotechnology</i> , 2020, 31, 245403.	1.3	6
51	Seamless Transition Mode Control for SiC Energy-recycling DC Electronic Loads. , 2020, , .		2
52	Supergiant elasticity and fracture of 3D spirally wound MoS_2 . <i>International Journal of Fracture</i> , 2020, 223, 39-52.	1.1	6
53	Enabling phase transition of infused lubricant in porous structure for exceptional oil/water separation. <i>Journal of Hazardous Materials</i> , 2020, 390, 122176.	6.5	30
54	Nanoscale Correlations of Ice Adhesion Strength and Water Contact Angle. <i>Coatings</i> , 2020, 10, 379.	1.2	20

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55	Enhancement of Thermal Boundary Conductance of Metal-Polymer System. <i>Nanomaterials</i> , 2020, 10, 670.	1.9	20
56	Modeling of Non-Linear and Hysteretic Magnetization Effects in Transient Potential Drop Measurements. <i>Studies in Applied Electromagnetics and Mechanics</i> , 2020, , .	0.2	0
57	Precise Analysis for Strong Coupling WPT System. , 2020, , .		0
58	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.	5.4	33
59	Modeling and Design of Contactless Sliprings for Rotary Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 4130-4140.	5.2	18
60	Enabling sequential rupture for lowering atomistic ice adhesion. <i>Nanoscale</i> , 2019, 11, 16262-16269.	2.8	20
61	Transportation of Janus nanoparticles in confined nanochannels: a molecular dynamics simulation. <i>Environmental Science: Nano</i> , 2019, 6, 2810-2819.	2.2	11
62	Hydrogen informed Gurson model for hydrogen embrittlement simulation. <i>Engineering Fracture Mechanics</i> , 2019, 217, 106542.	2.0	19
63	Liquid layer generators for excellent icephobicity at extremely low temperatures. <i>Materials Horizons</i> , 2019, 6, 2063-2072.	6.4	53
64	Magnetically Enhanced Mechanical Stability and Super-Size Effects in Self-Assembled Superstructures of Nanocubes. <i>Advanced Functional Materials</i> , 2019, 29, 1904825.	7.8	17
65	Numerical study of hydrogen influence on void growth at low triaxialities considering transient effects. <i>International Journal of Mechanical Sciences</i> , 2019, 164, 105176.	3.6	11
66	A new method to estimate the residual stresses in additive manufacturing characterized by point heat source. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2415-2429.	1.5	10
67	Interlaboratory Study of Ice Adhesion Using Different Techniques. <i>Coatings</i> , 2019, 9, 678.	1.2	44
68	Effect of the Lüders plateau on ductile fracture with MBL model. <i>European Journal of Mechanics, A/Solids</i> , 2019, 78, 103840.	2.1	3
69	Durable Low Ice Adhesion Foams Modulated by Submicrometer Pores. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17776-17783.	1.8	31
70	A 1-kV Input SiC LLC Converter With Split Resonant Tanks and Matrix Transformers. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 10446-10457.	5.4	22
71	The effect of ice type on ice adhesion. <i>AIP Advances</i> , 2019, 9, .	0.6	60
72	Experimental measurement of temperature-dependent equivalent stress-strain curves of a 420-MPa structural steel with axisymmetric notched tensile specimens. <i>Engineering Failure Analysis</i> , 2019, 100, 312-321.	1.8	13

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73	CAFE based multi-scale modelling of ductile-to-brittle transition of steel with a temperature dependent effective surface energy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 755, 220-230.	2.6	9
74	An ultra-durable icephobic coating by a molecular pulley. <i>Soft Matter</i> , 2019, 15, 3607-3611.	1.2	47
75	Cohesive zone modelling of anodic dissolution stress corrosion cracking induced by corrosion product films. <i>Philosophical Magazine</i> , 2019, 99, 1090-1102.	0.7	3
76	Understanding the role of hollow sub-surface structures in reducing ice adhesion strength. <i>Soft Matter</i> , 2019, 15, 2905-2910.	1.2	35
77	Epidermal Gland Inspired Self-Repairing Slippery Lubricant-Infused Porous Coatings with Durable Low Ice Adhesion. <i>Coatings</i> , 2019, 9, 602.	1.2	26
78	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.	2.6	17
79	Substrate slip steps promote cracking and buckling of thin brittle film. <i>Scripta Materialia</i> , 2019, 163, 82-85.	2.6	8
80	Topology and polarity of dislocation cores dictate the mechanical strength of monolayer MoS ₂ . <i>Applied Materials Today</i> , 2019, 15, 34-42.	2.3	24
81	Contact Angle and Condensation of a CO ₂ Droplet on a Solid Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 443-451.	1.5	9
82	Phase transition enabled durable anti-icing surfaces and its DIY design. <i>Chemical Engineering Journal</i> , 2019, 360, 243-249.	6.6	68
83	LLâ€delta structure for CS featuring highâ€PTC. <i>IET Power Electronics</i> , 2019, 12, 2543-2550.	1.5	2
84	Study of lowâ€temperature effect on the fracture locus of a 420â€MPa structural steel with the edge tracing method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 1649-1661.	1.7	13
85	Deformation and Fracture of Micronâ€Sized Metalâ€Coated Polymer Spheres: An In Situ Study. <i>Advanced Engineering Materials</i> , 2018, 20, 1800049.	1.6	2
86	A 6.6kW SiC bidirectional on-board charger. , 2018, , .		19
87	Competitive adsorption and diffusion of CH ₄ /CO ₂ binary mixture within shale organic nanochannels. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 53, 329-336.	2.1	62
88	Effect of hydrogen on the collective behavior of dislocations in the case of nanoindentation. <i>Acta Materialia</i> , 2018, 148, 18-27.	3.8	25
89	Grain-Size-Controlled Mechanical Properties of Polycrystalline Monolayer MoS ₂ . <i>Nano Letters</i> , 2018, 18, 1543-1552.	4.5	82
90	Atomistic insights into the nanofluid transport through an ultra-confined capillary. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4831-4839.	1.3	12

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91	Hydrogen-microvoid interactions at continuum scale. International Journal of Hydrogen Energy, 2018, 43, 10104-10128.	3.8	20
92	A review on wetting and water condensation - Perspectives for CO ₂ Condensation. Advances in Colloid and Interface Science, 2018, 256, 291-304.	7.0	13
93	Enhancing the Mechanical Durability of Icephobic Surfaces by Introducing Autonomous Self-Healing Function. ACS Applied Materials & Interfaces, 2018, 10, 11972-11978.	4.0	99
94	Effect of low temperature tensile properties on crack driving force for Arctic applications. Theoretical and Applied Fracture Mechanics, 2018, 93, 88-96.	2.1	7
95	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.	2.6	26
96	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.	3.6	28
97	Reference toughness "a pragmatic tool to estimate ductile-brittle transition temperatures. Procedia Structural Integrity, 2018, 13, 1135-1140.	0.3	0
98	Numerical study on the effect of the Lüders plateau on the ductile crack growth resistance of SENT specimens. International Journal of Fracture, 2018, 214, 185-200.	1.1	8
99	Displacement of nanofluids in silica nanopores: influenced by wettability of nanoparticles and oil components. Environmental Science: Nano, 2018, 5, 2641-2650.	2.2	18
100	Constraint effect on the brittle-to-ductile transition of single-crystal iron induced by dislocation mobility. International Journal of Mechanical Sciences, 2018, 149, 212-223.	3.6	11
101	Microgel evolution at three-phase contact region and associated wettability alteration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 297-302.	2.3	6
102	Focused ion beam milling of self-assembled magnetic superstructures: an approach to fabricate nanoporous materials with tunable porosity. Materials Horizons, 2018, 5, 1211-1218.	6.4	8
103	One-Step Fabrication of Bioinspired Lubricant-Regenerable Icephobic Slippery Liquid-Infused Porous Surfaces. ACS Omega, 2018, 3, 10139-10144.	1.6	68
104	Dislocation based plasticity in the case of nanoindentation. International Journal of Mechanical Sciences, 2018, 148, 158-173.	3.6	20
105	Effect of amorphization-mediated plasticity on the hydrogen-void interaction in ideal lattices under hydrostatic tension. Journal of Applied Physics, 2018, 123, .	1.1	5
106	Nature-inspired entwined coiled carbon mechanical metamaterials: molecular dynamics simulations. Nanoscale, 2018, 10, 15641-15653.	2.8	37
107	Design and preparation of sandwich-like polydimethylsiloxane (PDMS) sponges with super-low ice adhesion. Soft Matter, 2018, 14, 4846-4851.	1.2	86
108	Atomistic dewetting mechanics of Wenzel and monostable Cassie-Baxter states. Physical Chemistry Chemical Physics, 2018, 20, 24759-24767.	1.3	22

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109	Resistance Analysis of Spherical Metal Thin Films Combining Van Der Pauw and Electromechanical Nanoindentation Methods. <i>Journal of Electronic Materials</i> , 2018, 47, 6378-6382.	1.0	6
110	A 10-MHz eGaN Isolated Class- $\hat{1}$ ₂ DCX. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 2029-2040.	5.4	35
111	Room Temperature Characteristics of Polymer-Based Low Ice Adhesion Surfaces. <i>Scientific Reports</i> , 2017, 7, 42181.	1.6	71
112	Investigation of thermal transport in polymer composites with percolating networks of silver thin films by the flash diffusivity method. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	3
113	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.	2.6	19
114	Room-Temperature Curing and Grain Growth at High Humidity in Conductive Adhesives with Ultra-Low Silver Content. <i>Journal of Electronic Materials</i> , 2017, 46, 4256-4266.	1.0	3
115	On determining the Poisson's ratio of viscoelastic polymer microparticles using a flat punch test. <i>International Journal of Mechanical Sciences</i> , 2017, 128-129, 150-158.	3.6	7
116	A special notched tensile specimen to determine the flow stress-strain curve of hardening materials without applying the Bridgman correction. <i>Engineering Fracture Mechanics</i> , 2017, 179, 225-239.	2.0	22
117	Cement sheath modification using nanomaterials for long-term zonal isolation of oil wells: Review. <i>Journal of Petroleum Science and Engineering</i> , 2017, 156, 662-672.	2.1	60
118	Modeling nanoscale ice adhesion. <i>Acta Mechanica Solida Sinica</i> , 2017, 30, 224-226.	1.0	11
119	Angle-Dependent Photoluminescence Spectroscopy of Solution-Processed Organic Semiconducting Nanobelts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12441-12446.	1.5	4
120	Displacement Mechanism of Oil in Shale Inorganic Nanopores by Supercritical Carbon Dioxide from Molecular Dynamics Simulations. <i>Energy & Fuels</i> , 2017, 31, 738-746.	2.5	62
121	Determining critical CTOA from energy-load curves with DWTT specimen. <i>Engineering Fracture Mechanics</i> , 2017, 186, 47-58.	2.0	18
122	Multiscale crack initiator promoted super-low ice adhesion surfaces. <i>Soft Matter</i> , 2017, 13, 6562-6568.	1.2	150
123	Cohesive zone simulation of grain size and misorientation effects on hydrogen embrittlement in nickel. <i>Engineering Failure Analysis</i> , 2017, 81, 79-93.	1.8	20
124	Deformation and Stability of Core-Shell Microgels at Oil/Water Interface. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14793-14798.	1.8	17
125	Raman antenna effect from exciton-phonon coupling in organic semiconducting nanobelts. <i>Nanoscale</i> , 2017, 9, 19328-19336.	2.8	4
126	Grain-size Induced Strengthening and Weakening of Dislocation-free Polycrystalline Gas Hydrates. <i>Procedia IUTAM</i> , 2017, 21, 11-16.	1.2	5

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127	Size-dependent Phase Transformation and Fracture of ZnO Nanowires. Procedia IUTAM, 2017, 21, 86-93.	1.2	3
128	Passive Snow Repulsion: A State-of-the-art Review Illuminating Research Gaps and Possibilities. Energy Procedia, 2017, 132, 423-428.	1.8	13
129	Stress-coupled contact resistance of individual metal coated polymer spheres for conductive adhesive. , 2017, , .		0
130	Effect of Nanoparticles on Spontaneous Imbibition of Water into Ultraconfined Reservoir Capillary by Molecular Dynamics Simulation. Energies, 2017, 10, 506.	1.6	16
131	Morphology-Controlled Tensile Mechanical Characteristics in Graphene Allotropes. ACS Omega, 2017, 2, 3977-3988.	1.6	26
132	A framework for fracture assessments of dissimilar girth welds in offshore pipelines under bending. Engineering Fracture Mechanics, 2016, 163, 66-88.	2.0	26
133	Nanoscale deicing by molecular dynamics simulation. Nanoscale, 2016, 8, 14625-14632.	2.8	51
134	Electrical four-point probing of spherical metallic thin films coated onto micron sized polymer particles. Applied Physics Letters, 2016, 109, .	1.5	8
135	Electromechanical characterization of individual micron-sized metal coated polymer particles. Journal of Applied Physics, 2016, 119, .	1.1	20
136	Identifying the optimal deformation point in metal-coated polymer particles for conductive adhesives. , 2016, , .		2
137	CuO/Cu based superhydrophobic and self-cleaning surfaces. Scripta Materialia, 2016, 118, 60-64.	2.6	59
138	Ductile mechanisms of metals containing pre-existing nanovoids. Computational Materials Science, 2016, 125, 36-50.	1.4	16
139	Molecular dynamics study of di-CF ₄ based reverse micelles in supercritical CO ₂ . Physical Chemistry Chemical Physics, 2016, 18, 29156-29163.	1.3	14
140	Viscous regularization for cohesive zone modeling under constant displacement: An application to hydrogen embrittlement simulation. Engineering Fracture Mechanics, 2016, 166, 23-42.	2.0	32
141	Controlling the Conduction Mechanisms in Isotropic Conductive Adhesives with Silver-Coated Polymer Spheres. , 2016, , .		2
142	Continuum level simulation of the grain size and misorientation effects on hydrogen embrittlement in nickel. Procedia Structural Integrity, 2016, 2, 565-572.	0.3	1
143	Contact Resistance and Metallurgical Connections Between Silver Coated Polymer Particles in Isotropic Conductive Adhesives. Journal of Electronic Materials, 2016, 45, 3734-3743.	1.0	12
144	A uniform hydrogen degradation law for high strength steels. Engineering Fracture Mechanics, 2016, 157, 56-71.	2.0	56

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145	Effects of loading path on the fracture loci in a 3D space. <i>Engineering Fracture Mechanics</i> , 2016, 151, 22-36.	2.0	19
146	Multiaxial stress-strain response and dislocative transformations in NiTi alloy from first principles. <i>Acta Materialia</i> , 2016, 109, 223-229.	3.8	6
147	Damage Mechanism of Hybrid Welded 7020 Aluminium Alloy Based on Three-Dimensional X-Ray Micro-Tomography and GTN Model. <i>Zhongguo Jiguang/Chinese Journal of Lasers</i> , 2016, 43, 1002005.	0.2	2
148	Deformation and fracture of nano-sized metal-coated polymer particles: A molecular dynamics study. <i>Engineering Fracture Mechanics</i> , 2015, 150, 209-221.	2.0	10
149	Corrosion Product Film-Induced Stress Facilitates Stress Corrosion Cracking. <i>Scientific Reports</i> , 2015, 5, 10579.	1.6	11
150	Structural instability and mechanical properties of MoS ₂ toroidal nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32425-32435.	1.3	12
151	Preface to the special issue of <i>Engineering Failure Analysis</i> on "Recent case studies in Engineering Failure Analysis". <i>Engineering Failure Analysis</i> , 2015, 58, 321.	1.8	0
152	Stress and Fracture Analyses of Solar Silicon Wafers During Suction Process and Handling. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2015, 137, .	1.1	2
153	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.	1.6	19
154	Extraordinary deformation capacity of smallest carbohelicene springs. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18684-18690.	1.3	13
155	Selective growth of metallic nanostructures on microstructured copper substrate in solution. <i>CrystEngComm</i> , 2015, 17, 7262-7269.	1.3	23
156	Mechanical instability of monocrystalline and polycrystalline methane hydrates. <i>Nature Communications</i> , 2015, 6, 8743.	5.8	93
157	A SERS Study on the Assembly Behavior of Gold Nanoparticles at the Oil/Water Interface. <i>Langmuir</i> , 2015, 31, 12911-12919.	1.6	35
158	Continuum modeling of the cohesive energy for the interfaces between films, spheres, coats and substrates. <i>Computational Materials Science</i> , 2015, 96, 432-438.	1.4	20
159	Photoelectrical and microphysical properties of Sol-Gel derived IGZO thin films for printed TFTs. , 2014, , .		0
160	Fracture Analysis and Distribution of Surface Cracks in Multicrystalline Silicon Wafers. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014, 136, .	1.1	6
161	The Effect of Microstructure, Thickness Variation, and Crack on the Natural Frequency of Solar Silicon Wafers. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014, 136, 0110011-110018.	1.1	2
162	Predicting Thermo-Mechanical Response of Crosslinked Epoxy using ReaxFF. , 2014, , .		0

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