Cheng Yan

List of Publications by Year
in descending order

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		36691	42259
319	12,248	53	96
papers	citations	h-index	g-index

323	323	323	16006
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Poly(thiourea triethylene glycol) as a multifunctional binder for enhanced performance in lithium-sulfur batteries. Green Energy and Environment, 2022, 7, 1206-1216.	4.7	10
2	Multifunctional, Bioinspired, and Moisture Responsive Graphene Oxide/Tapioca Starch Nanocomposites. Advanced Materials Technologies, 2022, 7, 2100447.	3.0	10
3	Strain effects on the interfacial thermal conductance of graphene/h-BN heterostructure. Nano Materials Science, 2022, 4, 227-234.	3.9	5
4	Surface Modification Engineering Enabling 4.6ÂV Singleâ€Crystalline Niâ€Rich Cathode with Superior Longâ€Term Cyclability. Advanced Functional Materials, 2022, 32, 2109421.	7.8	99
5	Interfacial investigation of explosion-welded Al/steel plate: The microstructure, mechanical properties and residual stresses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142525.	2.6	18
6	Highly branched amylopectin binder for sulfur cathodes with enhanced performance and longevity. Exploration, 2022, 2, 20210131.	5.4	23
7	Fracture behavior and deformation-induced structure changes of a Ti-based metallic glass using micro-sized cantilevers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142519.	2.6	3
8	Kinetics behavior of single-crystal nickel-rich cathode materials at different cut-off voltages. Ionics, 2022, 28, 1065.	1.2	1
9	Short carbon fiber reinforced epoxy-ionic liquid electrolyte enabled structural battery via vacuum bagging process. Advanced Composites and Hybrid Materials, 2022, 5, 1799-1811.	9.9	27
10	Tutorial: Thermomechanical constitutive modeling of shape memory polymers. Journal of Applied Physics, 2022, 131, .	1.1	2
11	Multistimulus-Responsive Graphene Oxide/Fe₃O₄/Starch Soft Actuators. ACS Applied Materials & Interfaces, 2022, 14, 16772-16779.	4.0	18
12	Structure-Property Correlation in Weld Metals and Interface Regions of Titanium/Steel Dissimilar Joints. Journal of Materials Engineering and Performance, 2022, 31, 6509-6522.	1.2	7
13	High-performance quaternary polymer solid-state electrolyte via one-step casting method. Journal Physics D: Applied Physics, 2022, 55, 384002.	1.3	0
14	Mode II fracture toughness related to ply angle for composite delamination analysis. Mechanics of Advanced Materials and Structures, 2021, 28, 2417-2428.	1.5	6
15	Boosting cell performance of LiNi0.8Co0.1Mn0.1O2 cathode material via structure design. Journal of Energy Chemistry, 2021, 55, 114-123.	7.1	94
16	Single-metal-atom catalysts: An emerging platform for electrocatalytic oxygen reduction. Chemical Engineering Journal, 2021, 406, 127135.	6.6	67
17	Amylopectin from Glutinous Rice as a Sustainable Binder for Highâ€Performance Silicon Anodes. Energy and Environmental Materials, 2021, 4, 263-268.	7.3	24
18	High capacity and mobility in germanium sulfide/graphene (GeS/Gr) van der Waals heterostructure as anode materials for sodiumâ€“ion batteries: A first-principles investigation. Applied Surface Science, 2021, 536, 147779.	3.1	15

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19	Achieving ultra-large elastic strains in Nb thin films on NiTi phase-transforming substrate by the principle of lattice strain matching. Materials and Design, 2021, 197, 109257.	3.3	12
20	A mechanically robust self-healing binder for silicon anode in lithium ion batteries. Nano Energy, 2021, 81, 105654.	8.2	141
21	Damage and failure analysis of composite stiffened panels under low-velocity impact and compression after impact. Composite Structures, 2021, 262, 113333.	3.1	29
22	Microstructure and Fracture Toughness of Feâ€“Nb Dissimilar Welded Joints. Metals, 2021, 11, 86.	1.0	1
23	Unlocking the potential of ruthenium catalysts for nitrogen fixation with subsurface oxygen. Journal of Materials Chemistry A, 2021, 9, 6575-6582.	5.2	14
24	Machine learning assisted discovery of new thermoset shape memory polymers based on a small training dataset. Polymer, 2021, 214, 123351.	1.8	32
25	Computational Design and Experimental Validation of the Optimal Bimetal-Doped SrCoO_{3â^'Î´} Perovskite as Solid Oxide Fuel Cell Cathode. Journal of the American Chemical Society, 2021, 143, 9507-9514.	6.6	48
26	Sustainable okra gum for silicon anode in lithium-ion batteries. Sustainable Materials and Technologies, 2021, 28, e00283.	1.7	9
27	Experimental and numerical investigation on ultimate strength of laser-welded stiffened plates considering welding deformation and residual stresses. Ocean Engineering, 2021, 234, 109239.	1.9	17
28	Prediction of compression buckling load and buckling mode of hat-stiffened panels using artificial neural network. Engineering Structures, 2021, 242, 112275.	2.6	20
29	Suppress voltage decay of lithium-rich materials by coating layers with different crystalline states. Journal of Energy Chemistry, 2021, 60, 591-598.	7.1	39
30	Prediction of failure behavior of composite hat-stiffened panels under in-plane shear using artificial neural network. Composite Structures, 2021, 272, 114238.	3.1	15
31	Na2/3MnO2 nanoplates with exposed active planes as superior electrochemical performance sodium-ion batteries. Ionics, 2021, 27, 5187-5196.	1.2	6
32	Functional additives for solid polymer electrolytes in flexible and highâ€energyâ€density solidâ€state lithiumâ€ion batteries. , 2021, 3, 929-956.		63
33	Lithium-rich manganese-based cathode materials with highly stable lattice and surface enabled by perovskite-type phase-compatible layer. Nano Energy, 2021, 88, 106288.	8.2	85
34	Preparation of bioinspired graphene oxide/PMMA nanocomposite with improved mechanical properties. Composites Science and Technology, 2021, 216, 109046.	3.8	12
35	A hydrophilic poly(methyl vinyl ether-alt-maleic acid) polymer as a green, universal, and dual-functional binder for high-performance silicon anode and sulfur cathode. Journal of Energy Chemistry, 2021, 62, 127-135.	7.1	53
36	CPINet: Parameter identification of path-dependent constitutive model with automatic denoising based on CNN-LSTM. European Journal of Mechanics, A/Solids, 2021, 90, 104327.	2.1	10

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37	Techniques enabling inorganic materials into wearable fiber/yarn and flexible lithium-ion batteries. Energy Storage Materials, 2021, 43, 62-84.	9.5	25
38	Numerical investigation of microstructure and failure of lithiated silicon under biaxial tension. Computational Materials Science, 2021, 200, 110764.	1.4	0
39	Enhancing Cell Performance of Lithium-Rich Manganese-Based Materials via Tailoring Crystalline States of a Coating Layer. ACS Applied Materials & Interfaces, 2021, 13, 49390-49401.	4.0	22
40	From Drug Molecules to Thermoset Shape Memory Polymers: A Machine Learning Approach. ACS Applied Materials & Interfaces, 2021, 13, 60508-60521.	4.0	15
41	Recent advances in graphene based materials as anode materials in sodium-ion batteries. Journal of Energy Chemistry, 2020, 42, 91-107.	7.1	94
42	Bioinspired 2D Nanomaterials for Sustainable Applications. Advanced Materials, 2020, 32, e1902806.	11.1	84
43	Unveiling the Working Mechanism of Graphene Bubble Film/Silicon Composite Anodes in Li-Ion Batteries: From Experiment to Modeling. ACS Applied Energy Materials, 2020, 3, 521-531.	2.5	24
44	1-Pyrenemethanol derived nanocrystal reinforced graphene films with high thermal conductivity and flexibility. Nanotechnology, 2020, 31, 065602.	1.3	8
45	Interfacial Investigation of Explosion-Welded Titanium/Steel Bimetallic Plates. Journal of Materials Engineering and Performance, 2020, 29, 78-86.	1.2	39
46	Ultratough reduced graphene oxide composite films synergistically toughened and reinforced by polydopamine wrapped carbon nanotubes. Carbon, 2020, 159, 422-431.	5.4	25
47	Impact resistance analysis of flexible fabric by 3D shape of impact basin in low-speed impact test. Polymer Testing, 2020, 81, 106215.	2.3	7
48	Development of cross-linked dextrin as aqueous binders for silicon based anodes. Journal of Power Sources, 2020, 450, 227671.	4.0	47
49	Crystal Transformation from the Incorporation of Coordinate Bonds into a Hydrogen-Bonded Network Yields Robust Free-Standing Supramolecular Membranes. Journal of the American Chemical Society, 2020, 142, 479-486.	6.6	35
50	Bioinspired scaffolds with hierarchical structures for tailored mechanical behaviour and cell migration. Ceramics International, 2020, 46, 24102-24109.	2.3	9
51	One-Minute Synthesis of a Supramolecular Hydrogel from Suspensionâ€“Gel Transition and the Derived Crystalline, Elastic, and Photoactive Aerogels. ACS Applied Materials & Interfaces, 2020, 12, 53125-53133.	4.0	7
52	Comparative Study of Microstructure and Mechanical Properties of X80 SAW Welds Prepared Using Different Wires and Heat Inputs. Journal of Materials Engineering and Performance, 2020, 29, 4322-4338.	1.2	11
53	Investigation of failure mechanisms of nacre at macro and nano scales. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104018.	1.5	12
54	Study on mode-I fracture toughness of composite laminates with curved plies applied by automated fiber placement. Materials and Design, 2020, 195, 108963.	3.3	14

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55	Synthesis and characterization of SiO2/Ti3C2 anode materials for lithium-ion batteries via different methods. Ionics, 2020, 26, 5325-5331.	1.2	15
56	Graphene/Graphitized Polydopamine/Carbon Nanotube All-Carbon Ternary Composite Films with Improved Mechanical Properties and Through-Plane Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 57391-57400.	4.0	31
57	Bioinspired 2D Nanomaterials: Bioinspired 2D Nanomaterials for Sustainable Applications (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	11.1	5
58	Interfacial Engineering with Liquid Metal for Si-Based Hybrid Electrodes in Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 5147-5152.	2.5	20
59	Mechanically Robust Tapioca Starch Composite Binder with Improved Ionic Conductivity for Sustainable Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 9857-9865.	3.2	42
60	Strongly interfacial-coupled 2D-2D TiO2/g-C3N4 heterostructure for enhanced visible-light induced synthesis and conversion. Journal of Hazardous Materials, 2020, 394, 122529.	6.5	118
61	Asymmetric gel polymer electrolyte with high lithium ion conductivity for dendrite-free lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 8033-8040.	5.2	93
62	Identifying elasto-plastic damage coupling model of laser-welded aluminum alloy by virtual field method and digital image correlation. Optics and Laser Technology, 2020, 129, 106268.	2.2	14
63	Computational screening of MN₄ (M = Tiâ€“Cu) based metal organic frameworks for CO₂ reduction using the d-band centre as a descriptor. Nanoscale, 2020, 12, 6188-6194.	2.8	52
64	The formation of intermetallics in Ti/steel dissimilar joints welded by Cu-Nb composite filler. Journal of Alloys and Compounds, 2020, 828, 154389.	2.8	23
65	Remote actuation of light activated shape memory polymers via D-shaped optical fibres. Smart Materials and Structures, 2020, 29, 047001.	1.8	14
66	Metalâ€free graphene/boron nitride heterointerface for CO₂ reduction: Surface curvature controls catalytic activity and selectivity. EcoMat, 2020, 2, e12013.	6.8	17
67	Polymerâ€“Mesoporous Silica Nanoparticle Coreâ€“Shell Nanofibers as a Dual-Drug-Delivery System for Guided Tissue Regeneration. ACS Applied Nano Materials, 2020, 3, 1457-1467.	2.4	49
68	Finite-element inverse analysis of residual stress for laser welding based on a contour method. Optics and Laser Technology, 2020, 129, 106289.	2.2	21
69	Stable Seamless Interfaces and Rapid Ionic Conductivity of Caâ€“CeO₂/LiTFSI/PEO Composite Electrolyte for Highâ€Rate and Highâ€Voltage Allâ€Solidâ€State Battery. Advanced Energy Materials, 2020, 10, 2000049.	10.2	252
70	Molecular dynamic investigation of the structure and stress in crystalline and amorphous silicon during lithiation. Computational Materials Science, 2020, 183, 109811.	1.4	7
71	Experimental and numerical study on compression-after-impact behavior of composite panels with foam-filled hat-stiffener. Ocean Engineering, 2020, 198, 106991.	1.9	15
72	Joint Reinforcement Learning Method Based on Roulette Algorithm and Simulated Annealing Strategy. , 2020, , .		0

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73	Hollow cobalt oxide nanoparticles embedded in nitrogen-doped carbon nanosheets as an efficient bifunctional catalyst for Znâ€“air battery. Journal of Energy Chemistry, 2019, 33, 59-66.	7.1	68
74	Experimental and numerical investigation of the toughening mechanisms in bioinspired composites prepared by freeze casting. Composites Science and Technology, 2019, 182, 107768.	3.8	14
75	Bacteria Death and Osteoblast Metabolic Activity Correlated to Hydrothermally Synthesised TiO2 Surface Properties. Molecules, 2019, 24, 1201.	1.7	27
76	Dual phase nano-particulate AlN composite â€" A kind of ceramics with high strength and ductility. Ceramics International, 2019, 45, 19845-19855.	2.3	5
77	Effects of testing conditions on the deformation behaviour of a Ti-based bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138404.	2.6	8
78	Evaluation of Particle Beam Lithography for Fabrication of Metallic Nano-structures. Procedia Manufacturing, 2019, 30, 261-267.	1.9	12
79	Investigation of mechanical properties and morphology of hydrothermally manufactured titanium dioxide nanostructured surfaces. Procedia Manufacturing, 2019, 30, 373-379.	1.9	10
80	Effects of selectively triggered photothermal particles on shape memory polymer composites: An investigation on structural performance, thermomechanical characteristics and photothermal behaviour. Journal of Intelligent Material Systems and Structures, 2019, 30, 3124-3135.	1.4	15
81	A biomimetic multifunctional electronic hair sensor. Journal of Materials Chemistry A, 2019, 7, 1889-1896.	5.2	47
82	Hybrid inversion method and sensitivity analysis of inherent deformations of welded joints. Advances in Engineering Software, 2019, 131, 186-195.	1.8	3
83	Graphene coating makes copper more resistant to plastic deformation. Composites Communications, 2019, 12, 106-111.	3.3	18
84	Single Transition Metal Atom-Doped Graphene Supported on a Nickel Substrate: Enhanced Oxygen Reduction Reactions Modulated by Electron Coupling. Journal of Physical Chemistry C, 2019, 123, 3703-3710.	1.5	27
85	Enhancement of thermal energy transport across the graphene/h-BN heterostructure interface. Nanoscale, 2019, 11, 4067-4072.	2.8	38
86	Lithium-Ion Batteries: Interweaving 3D Network Binder for High-Areal-Capacity Si Anode through Combined Hard and Soft Polymers (Adv. Energy Mater. 3/2019). Advanced Energy Materials, 2019, 9, 1970009.	10.2	2
87	A single boron atom doped boron nitride edge as a metal-free catalyst for N₂ fixation. Physical Chemistry Chemical Physics, 2019, 21, 1110-1116.	1.3	107
88	Multi-biofunctional properties of three species of cicada wings and biomimetic fabrication of nanopatterned titanium pillars. Journal of Materials Chemistry B, 2019, 7, 1300-1310.	2.9	63
89	Compression after impact behavior of composite foam-core sandwich panels. Composite Structures, 2019, 225, 111181.	3.1	33
90	An Inverse Approach of Damage Identification Using Lamb Wave Tomography. Sensors, 2019, 19, 2180.	2.1	13

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91	Anisotropic and asymmetric deformation mechanisms of nanolaminated graphene/Cu composites. Nano Materials Science, 2019, 1, 121-130.	3.9	18
92	Defective Graphene on the Transition-Metal Surface: Formation of Efficient Bifunctional Catalysts for Oxygen Evolution/Reduction Reactions in Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 17410-17415.	4.0	34
93	Experimental study on compressive buckling behavior of J-stiffened composite panels. Optics and Lasers in Engineering, 2019, 120, 31-39.	2.0	27
94	Nanoporous SiO coated amorphous silicon anode material with robust mechanical behavior for high-performance rechargeable Li-ion batteries. Nano Materials Science, 2019, 1, 70-76.	3.9	26
95	Carbonized polydopamine nanoparticle reinforced graphene films with superior thermal conductivity. Carbon, 2019, 149, 173-180.	5.4	55
96	Nanoindentation Investigation of Ti/Fe Bimetallic Plate Welded by Vanadium Filler. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2302-2309.	1.1	2
97	A critical review of fused deposition modeling 3D printing technology in manufacturing polylactic acid parts. International Journal of Advanced Manufacturing Technology, 2019, 102, 2877-2889.	1.5	263
98	Fe3C/Fe2O3 heterostructure embedded in N-doped graphene as a bifunctional catalyst for quasi-solid-state zincâ€“air batteries. Carbon, 2019, 146, 763-771.	5.4	76
99	Silicon-doped graphene edges: an efficient metal-free catalyst for the reduction of CO₂ into methanol and ethanol. Catalysis Science and Technology, 2019, 9, 6800-6807.	2.1	51
100	Effect of Cu on microstructure evolution and mechanical properties of Fe-Nb dissimilar welds. Materials Letters, 2019, 234, 113-116.	1.3	4
101	Virtual testing method on graphite fiber/resin single-filament-composite test. Composite Interfaces, 2019, 26, 397-415.	1.3	1
102	Interweaving 3D Network Binder for Highâ€Arealâ€Capacity Si Anode through Combined Hard and Soft Polymers. Advanced Energy Materials, 2019, 9, 1802645.	10.2	181
103	Nanoindentation and microstructure analysis of Ti/Fe dissimilar joint. Materials Letters, 2019, 238, 98-101.	1.3	8
104	Notch effects on deformation of crystalline and amorphous AlN â€“ A nanoscale study. Ceramics International, 2019, 45, 907-917.	2.3	6
105	Atomic resolution of structural changes in elastic crystals of copper(II) acetylacetonate. Nature Chemistry, 2018, 10, 65-69.	6.6	249
106	Advances in In Situ Techniques for Characterization of Failure Mechanisms of Liâ€Ion Battery Anodes. Advanced Sustainable Systems, 2018, 2, 1700182.	2.7	20
107	Study on welding sequence of butt-welded structures based on equivalent heat source parameter. International Journal of Pressure Vessels and Piping, 2018, 163, 15-22.	1.2	11
108	Interfacial mechanical behaviour of proteinâ€“mineral nanocomposites: A molecular dynamics investigation. Journal of Biomechanics, 2018, 73, 161-167.	0.9	8

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109	Mechanical, bactericidal and osteogenic behaviours of hydrothermally synthesised TiO2 nanowire arrays. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 80, 311-319.	1.5	62
110	Microstructure, texture and mechanical properties of 6061 aluminum laser beam welded joints. Materials Characterization, 2018, 137, 269-276.	1.9	54
111	High performance heterojunction photocatalytic membranes formed by embedding Cu₂O and TiO₂nanowires in reduced graphene oxide. Catalysis Science and Technology, 2018, 8, 1704-1711.	2.1	23
112	Interaction between functionalized graphene and sulfur compounds in a lithiumâ€“sulfur battery â€“ a density functional theory investigation. RSC Advances, 2018, 8, 2271-2279.	1.7	50
113	Insight into lead-free organic-inorganic hybrid perovskites for photovoltaics and optoelectronics: A first-principles study. Organic Electronics, 2018, 59, 99-106.	1.4	123
114	Local zone-wise elastic-plastic constitutive parameters of Laser-welded aluminium alloy 6061 using digital image correlation. Optics and Lasers in Engineering, 2018, 101, 28-34.	2.0	24
115	Finite element inversion method for interfacial stress analysis of composite single-lap adhesively bonded joint based on full-field deformation. International Journal of Adhesion and Adhesives, 2018, 81, 48-55.	1.4	16
116	Strengthening mechanisms of graphene coated copper under nanoindentation. Computational Materials Science, 2018, 144, 42-49.	1.4	34
117	Understanding the mechanical properties and deformation behavior of 3-D graphene-carbon nanotube structures. Materials and Design, 2018, 160, 377-383.	3.3	17
118	Predicting a new class of metal-organic frameworks as efficient catalyst for bi-functional oxygen evolution/reduction reactions. Journal of Catalysis, 2018, 367, 206-211.	3.1	61
119	A high-volumetric-capacity and high-areal-capacity ZnCo₂O₄ anode for Li-ion batteries enabled by a robust biopolymer binder. Journal of Materials Chemistry A, 2018, 6, 19455-19462.	5.2	27
120	Effects of heteroatom doping on the performance of graphene in sodium-ion batteries: A density functional theory investigation. Carbon, 2018, 140, 276-285.	5.4	106
121	Understanding the structure-property relationships in hydrothermally reduced graphene oxide hydrogels. Carbon, 2018, 137, 282-290.	5.4	62
122	Experimental study on compressive behavior of I-stiffened CFRP panel using fringe projection profilometry. Ocean Engineering, 2018, 160, 382-388.	1.9	13
123	Investigation of Microstructure and Mechanical Properties of Fe-V Dissimilar Welds. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5402-5410.	1.1	2
124	Investigation on welding sequence of I-beam by hybrid inversion. Marine Structures, 2018, 62, 23-39.	1.6	8
125	Investigation of mechanical behaviour of amorphous aluminium nitride. Materialia, 2018, 2, 148-156.	1.3	27
126	Utilizing Room Temperature Liquid Metals for Mechanically Robust Silicon Anodes in Lithiumâ€ion Batteries. Batteries and Supercaps, 2018, 1, 122-128.	2.4	22

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127	Stress transfer of single yarn drawing in soft fabric studied by micro Raman spectroscopy. Composites Part A: Applied Science and Manufacturing, 2018, 112, 134-141.	3.8	13
128	A fragments mass distribution scaling relations for fragmenting shells with variable thickness subjected to internal explosive loading. International Journal of Impact Engineering, 2018, 120, 79-94.	2.4	19
129	Investigation of microstructure and fracture toughness of Fe-Zr welded joints. Materials Letters, 2018, 231, 134-136.	1.3	9
130	Integrated BiPO₄ nanocrystal/BiOBr heterojunction for sensitive photoelectrochemical sensing of 4-chlorophenol. Dalton Transactions, 2018, 47, 13353-13359.	1.6	23
131	Two near white light emitting Pb(II) or Cd(II) complexes. Inorganic Chemistry Communication, 2018, 96, 116-118.	1.8	2
132	Virtual field method for identifying elastic-plastic constitutive parameters of aluminum alloy laser welding considering kinematic hardening. Optics and Lasers in Engineering, 2018, 110, 122-131.	2.0	12
133	Numerical and experimental study of dynamic buckling behavior of a J-stiffened composite panel under in-plane shear. Composite Structures, 2017, 166, 96-103.	3.1	35
134	Investigation on the interfacial mechanical properties of hybrid graphene-carbon nanotube/polymer nanocomposites. Carbon, 2017, 115, 694-700.	5.4	68
135	Experimental and numerical investigation of microstructure and mechanical behavior of titanium/steel interfaces prepared by explosive welding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 323-331.	2.6	171
136	Mode-II interlaminar fracture toughness of GFRP/Al laminates improved by surface modified VGCF interleaves. Composites Part B: Engineering, 2017, 114, 365-372.	5.9	19
137	Deformation and failure mechanisms of electrochemically lithiated silicon thin films. RSC Advances, 2017, 7, 13487-13497.	1.7	41
138	Graphene oxide wrapped Fe 2 O 3 as a durable anode material for high-performance lithium-ion batteries. Journal of Alloys and Compounds, 2017, 714, 425-432.	2.8	44
139	Stiffness and strength tailoring of cobalt chromium graded cellular structures for stress-shielding reduction. Materials and Design, 2017, 114, 633-641.	3.3	163
140	Exploiting a robust biopolymer network binder for an ultrahigh-areal-capacity Liâ€“S battery. Energy and Environmental Science, 2017, 10, 750-755.	15.6	286
141	Clay-supported nanoscale zero-valent iron composite materials for the remediation of contaminated aqueous solutions: A review. Chemical Engineering Journal, 2017, 312, 336-350.	6.6	267
142	Cu nanoparticles supported on graphitic carbon nitride as an efficient electrocatalyst for oxygen reduction reaction. Chinese Journal of Catalysis, 2017, 38, 1006-1010.	6.9	11
143	Influence of microstructure on fatigue crack propagation behaviors of an aluminum alloy: Role of sheet thickness. Engineering Fracture Mechanics, 2017, 180, 105-114.	2.0	33
144	Alternative designs of loadâ”sharing cobalt chromium graded femoral stems. Materials Today Communications, 2017, 12, 1-10.	0.9	31

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145	3D-printed cellular structures for bone biomimetic implants. Additive Manufacturing, 2017, 15, 93-101.	1.7	91
146	Low cost and green preparation process for Î±-Fe₂O₃@gum arabic electrode for high performance sodium ion batteries. Journal of Materials Chemistry A, 2017, 5, 2102-2109.	5.2	58
147	Investigation of thermal energy transport interface of hybrid graphene-carbon nanotube/polyethylene nanocomposites. Scientific Reports, 2017, 7, 14700.	1.6	18
148	Microstructure and mechanical properties of titanium/steel bimetallic joints. Materials Characterization, 2017, 132, 330-337.	1.9	23
149	Influence of vanadium filler on the properties of titanium and steel TIG welded joints. Journal of Materials Processing Technology, 2017, 240, 293-304.	3.1	58
150	Mechanical behaviour of staggered array of mineralised collagen fibrils in protein matrix: Effects of fibril dimensions and failure energy in protein matrix. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 236-247.	1.5	27
151	Effect of nano-scale constraint on the mechanical behaviour of osteopontinâ€“hydroxyapatite interfaces. Computational Materials Science, 2017, 126, 59-65.	1.4	8
152	Micro-morphology of Fatigue Crack Initiation and Propagation Behavior in High Strength Aluminum Alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 213-221.	2.6	5
153	Graded Cellular Bone Scaffolds. , 2017, , .		2
154	Nanotribological Properties of Nanotextured Ni-Co Coating Surface Measured with AFM Colloidal Probe Technique. Journal of Laser Micro Nanoengineering, 2017, 12, 16-21.	0.4	6
155	Estimating life cycle cost for a product family design: The challenges. IOP Conference Series: Materials Science and Engineering, 2017, 273, 012026.	0.3	0
156	Lithium concentration dependent structure and mechanics of amorphous silicon. Journal of Applied Physics, 2016, 119, .	1.1	17
157	Local Eshelby matrix in eigen-variable boundary integral equations for solids with particles and cracks in full space. Engineering Analysis With Boundary Elements, 2016, 71, 59-69.	2.0	3
158	Coating Fe2O3 with graphene oxide for high-performance sodium-ion battery anode. Composites Communications, 2016, 1, 48-53.	3.3	36
159	Strengthening effects of twin interface in Cu/Ni multilayer thin films â€“ A molecular dynamics study. Materials and Design, 2016, 111, 1-8.	3.3	79
160	Multiâ€Mode White Light Emission in a ZnII Coordination Polymer from Excitedâ€State Intramolecular Proton Transfer (ESIPT) Ligands. European Journal of Inorganic Chemistry, 2016, 2016, 2676-2680.	1.0	45
161	Atomistic investigation into the mechanical behaviour of crystalline and amorphous TiO₂ nanotubes. RSC Advances, 2016, 6, 28121-28129.	1.7	12
162	Carbon-based silicon nanohybrid anode materials for rechargeable lithium ion batteries. Materials Technology, 2016, 31, 872-883.	1.5	12

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163	Nanoindentation study of the mechanical behavior of TiO2 nanotube arrays. Journal of Applied Physics, 2015, 118, .	1.1	45
164	Mechanical Behavior of Nanostructured Materials. Journal of Nanomaterials, 2015, 2015, 1-2.	1.5	2
165	Enhanced interfacial thermal transport across grapheneâ€“polymer interfaces by grafting polymer chains. Carbon, 2015, 85, 414-421.	5.4	126
166	Fabrication of Nb2O5 Nanosheets for High-rate Lithium Ion Storage Applications. Scientific Reports, 2015, 5, 8326.	1.6	123
167	Interlaminar mechanical properties of carbon fiber reinforced plastic laminates modified with graphene oxide interleaf. Carbon, 2015, 91, 224-233.	5.4	123
168	Dual-functional gum arabic binder for silicon anodes in lithium ion batteries. Nano Energy, 2015, 12, 178-185.	8.2	236
169	Photoluminescence and white-light emission in two series of heteronuclear Pb(<scp>ii</scp>)â€“Ln(<scp>iii</scp>) complexes. New Journal of Chemistry, 2015, 39, 3770-3776.	1.4	23
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