

Jun Xu

List of Publications by Year in descending order

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234
papers

9,013
citations

38742

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times ranked

5972
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical damping design method of vibration isolation system with both fractional-order inerter and damper. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1348-1359.	2.6	7
2	Vibration analysis of sandwich beams with viscoelastic coating described by fractional constitutive equation. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 429-439.	2.6	6
3	A Three-Heat-Source Electro-Thermal Coupled Model for Fast Estimation of the Temperature Distribution of a Lithium-Ion Battery Cell. <i>IEEE Transactions on Transportation Electrification</i> , 2022, 8, 288-297.	7.8	13
4	A Fast Impedance Calculation-Based Battery State-of-Health Estimation Method. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 7019-7028.	7.9	67
5	New control strategy for suppressing the local vibration of sandwich beams based on the wave propagation method. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 231-247.	2.5	7
6	A Lightweight Multichannel Direct Contact Liquid-Cooling System and Its Optimization for Lithium-Ion Batteries. <i>IEEE Transactions on Transportation Electrification</i> , 2022, 8, 2334-2345.	7.8	14
7	Air-processed stable near-infrared Si-based perovskite light-emitting devices with efficiency exceeding 7.5%. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1276-1281.	5.5	8
8	Ultra-light kirigami lantern chain for superior impact mitigation. <i>Extreme Mechanics Letters</i> , 2022, 51, 101602.	4.1	3
9	Mechanistic modeling of Li plating in lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 521, 230936.	7.8	8
10	Thermal performance of a liquid-immersed battery thermal management system for lithium-ion pouch batteries. <i>Journal of Energy Storage</i> , 2022, 46, 103835.	8.1	52
11	A multiphysics understanding of internal short circuit mechanisms in lithium-ion batteries upon mechanical stress abuse. <i>Energy Storage Materials</i> , 2022, 45, 667-679.	18.0	38
12	Uncover the underlying mechanisms of topology and structural hierarchy in energy absorption performances of bamboo-inspired tubular honeycomb. <i>Extreme Mechanics Letters</i> , 2022, 52, 101640.	4.1	25
13	Accurate Measurement of the Contact Resistance During Internal Short Circuit in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020505.	2.9	5
14	Innovative all-silicon based a-SiNx:O/c-Si heterostructure solar-blind photodetector with both high responsivity and fast response speed. <i>APL Photonics</i> , 2022, 7, .	5.7	5
15	A model based balancing system for battery energy storage systems. <i>Journal of Energy Storage</i> , 2022, 49, 104114.	8.1	4
16	Design and Optimization of a Novel Microchannel Battery Thermal Management System Based on Digital Twin. <i>Energies</i> , 2022, 15, 1421.	3.1	20
17	Digital Twin-Based Automated Guided Vehicle Scheduling: A Solution for Its Charging Problems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3354.	2.5	12
18	Molecular-Layer-Defined Asymmetric Schottky Contacts in Organic Planar Diodes for Self-Powered Optoelectronic Synapses. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2338-2347.	4.6	9

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19	Constant current charging time based fast state-of-health estimation for lithium-ion batteries. Energy, 2022, 247, 123556.	8.8	53
20	Deformation and fracture behaviors of cylindrical battery shell during thermal runaway. Journal of Power Sources, 2022, 539, 231607.	7.8	18
21	Dynamic behaviors of bio-inspired structures: Design, mechanisms, and models. Engineering Structures, 2022, 265, 114490.	5.3	65
22	Field Programmable Gate Array Based Torque Predictive Control for Permanent Magnet Servo Motors. Micromachines, 2022, 13, 1055.	2.9	2
23	A fast state-of-health estimation method using single linear feature for lithium-ion batteries. Energy, 2022, 256, 124652.	8.8	22
24	A Relative State of Health Estimation Method Based on Wavelet Analysis for Lithium-Ion Battery Cells. IEEE Transactions on Industrial Electronics, 2021, 68, 6973-6981.	7.9	54
25	A Hybrid Self-Heating Method for Batteries Used at Low Temperature. IEEE Transactions on Industrial Informatics, 2021, 17, 4714-4723.	11.3	33
26	Unlocking multiphysics design guidelines on Si/C composite nanostructures for high-energy-density and robust lithium-ion battery anode. Nano Energy, 2021, 81, 105591.	16.0	40
27	Effective thermo-electro-mechanical modeling framework of lithium-ion batteries based on a representative volume element approach. Journal of Energy Storage, 2021, 33, 102090.	8.1	22
28	Tunable traveling wave properties in one-dimensional chains composed from hollow cylinders: From compression to rarefaction waves. International Journal of Mechanical Sciences, 2021, 191, 106073.	6.7	10
29	Composite structural batteries with Co ₃ O ₄ /CNT modified carbon fibers as anode: Computational insights on the interfacial behavior. Composites Science and Technology, 2021, 201, 108495.	7.8	13
30	High efficiency organic-Si hybrid solar cells with a one-dimensional CdS interlayer. Nanoscale, 2021, 13, 4206-4212.	5.6	8
31	Quantifying and modeling of stress-driven short-circuits in lithium-ion batteries in electrified vehicles. Journal of Materials Chemistry A, 2021, 9, 7102-7113.	10.3	40
32	Unexpected phosphorus doping routine of planar silicon nanowires for integrating CMOS logics. Nanoscale, 2021, 13, 15031-15037.	5.6	2
33	Toward understanding solitary wave propagation in composite-cylinders-based 1D granular crystals. Extreme Mechanics Letters, 2021, 43, 101156.	4.1	9
34	Ab Initio Design, Shaping, and Assembly of Free-Standing Silicon Nanoprobes. Nano Letters, 2021, 21, 2773-2779.	9.1	15
35	Data-Driven Safety Risk Prediction of Lithium-Ion Battery. Advanced Energy Materials, 2021, 11, 2003868.	19.5	55
36	Highly Sensitive Ammonia Gas Detection at Room Temperature by Integratable Silicon Nanowire Field-Effect Sensors. ACS Applied Materials & Interfaces, 2021, 13, 14377-14384.	8.0	42

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37	Toughening mechanism of coelacanth-fish-inspired double-helicoidal composites. <i>Composites Science and Technology</i> , 2021, 205, 108650.	7.8	39
38	Insights into the Li Diffusion Mechanism in Si/C Composite Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21362-21370.	8.0	27
39	A stack pressure based equivalent mechanical model of lithium-ion pouch batteries. <i>Energy</i> , 2021, 221, 119804.	8.8	15
40	Terrace-confined guided growth of high-density ultrathin silicon nanowire array for large area electronics. <i>Nanotechnology</i> , 2021, 32, 265602.	2.6	4
41	Strong and Tough Bioinspired Additive-Manufactured Dual-Phase Mechanical Metamaterial Composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 149, 104341.	4.8	72
42	Enhanced Near-Infrared Perovskite Light-Emitting Devices by Introducing Choline Chloride Layer. <i>Advanced Optical Materials</i> , 2021, 9, 2100636.	7.3	12
43	Achieving a Record Open-Circuit Voltage for Organic/Si Hybrid Solar Cells by Improving Junction Quality. <i>Solar Rrl</i> , 2021, 5, 2100255.	5.8	11
44	Enhanced upconversion red light emission of $\text{TiO}_2\text{:Yb,Er}$ thin film via Mn doping. <i>Optics Express</i> , 2021, 29, 23159.	3.4	5
45	Unlocking the Electrochemical-Mechanical Coupling Behaviors of Dendrite Growth and Crack Propagation in All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101807.	19.5	51
46	Coupled crack propagation and dendrite growth in solid electrolyte of all-solid-state battery. <i>Nano Energy</i> , 2021, 86, 106057.	16.0	51
47	Energy Absorption Performance of Bio-inspired Honeycombs: Numerical and Theoretical Analysis. <i>Acta Mechanica Solida Sinica</i> , 2021, 34, 884-894.	1.9	9
48	Mechanistic understanding of the electrochemo-dependent mechanical behaviors of battery anodes. <i>Journal of Power Sources</i> , 2021, 510, 230428.	7.8	8
49	Superfast Growth Dynamics of High-Quality Silicon Nanowires on Polymer Films via Self-Selected Laser-Droplet-Heating. <i>Nano Letters</i> , 2021, 21, 569-576.	9.1	9
50	Coupling Effect of State-of-Charge and Strain Rate on the Mechanical Behavior of Electrodes of 21700 Lithium-Ion Battery. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	2.1	10
51	Multiple channels to enhance near-infrared emission from $\text{SiO}_2\text{:SnO}_2\text{:Er}^{3+}$ films by Ba^{2+} ion doping. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23711-23717.	2.8	6
52	Enhanced photoluminescence of $\text{CsPbBr}_{3-x}\text{I}_x$ nanocrystals via plasmonic Au nanoarrays. <i>Optics Express</i> , 2021, 29, 36988.	3.4	9
53	Multiscale Modeling of Electro-Chemo-Mechanical Degradation in Si/C Core-Shell Anode for the Lithium-Ion Battery of High Energy Density. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	2.1	8
54	Planar Growth, Integration, and Applications of Semiconducting Nanowires. <i>Advanced Materials</i> , 2020, 32, e1903945.	21.0	42

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55	Safety issues and mechanisms of lithium-ion battery cell upon mechanical abusive loading: A review. <i>Energy Storage Materials</i> , 2020, 24, 85-112.	18.0	395
56	Vibration analysis of complex fractional viscoelastic beam structures by the wave method. <i>International Journal of Mechanical Sciences</i> , 2020, 167, 105204.	6.7	26
57	Multiphysics coupled computational model for commercialized Si/graphite composite anode. <i>Journal of Power Sources</i> , 2020, 450, 227667.	7.8	49
58	Germanium quantum dot infrared photodetectors addressed by self-aligned silicon nanowire electrodes. <i>Nanotechnology</i> , 2020, 31, 145602.	2.6	14
59	A centimeter scale self-standing two-dimensional ultra-thin mesoporous platinum nanosheet. <i>Materials Horizons</i> , 2020, 7, 489-494.	12.2	19
60	Modeling framework for multiphysics-multiscale behavior of Si/C composite anode. <i>Journal of Power Sources</i> , 2020, 449, 227501.	7.8	39
61	Deformation and failure behaviors of anode in lithium-ion batteries: Model and mechanism. <i>Journal of Power Sources</i> , 2020, 448, 227468.	7.8	35
62	Fabrication and multiphysics modeling of modified carbon fiber as structural anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 476, 228532.	7.8	21
63	Unprecedented Uniform 3D Growth Integration of 10-Layer Stacked Si Nanowires on Tightly Confined Sidewall Grooves. <i>Nano Letters</i> , 2020, 20, 7489-7497.	9.1	17
64	Design and Performance Analysis of Magnetic Shape Memory Alloy Actuator With a Compact Electromagnetic Coil Configuration. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-13.	2.1	3
65	A Numerical Method for a System of Fractional Differential-Algebraic Equations Based on Sliding Mode Control. <i>Mathematics</i> , 2020, 8, 1134.	2.2	3
66	Thermal runaway propagation behavior within 18,650 lithium-ion battery packs: A modeling study. <i>Journal of Energy Storage</i> , 2020, 31, 101668.	8.1	77
67	Tough Nature-Inspired Helicoidal Composites with Printing-Induced Voids. <i>Cell Reports Physical Science</i> , 2020, 1, 100109.	5.6	27
68	Enhanced Broadband Plasmonic Absorbers with Tunable Light Management on Flexible Tapered Metasurface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56178-56185.	8.0	11
69	Safety probability based multi-objective optimization of energy-harvesting suspension system. <i>Energy</i> , 2020, 209, 118362.	8.8	11
70	Solution-Processed Monolithic All-Perovskite Triple-Junction Solar Cells with Efficiency Exceeding 20%. <i>ACS Energy Letters</i> , 2020, 5, 2819-2826.	17.4	69
71	Carbon corrosion behaviors and the mechanical properties of proton exchange membrane fuel cell cathode catalyst layer. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23519-23525.	7.1	24
72	Cracks of Silicon Nanoparticles in Anodes: Mechanics-Driven Electrochemical-Coupled Modeling Framework Based on the Phase-Field Method. <i>ACS Applied Energy Materials</i> , 2020, 3, 10931-10939.	5.1	30

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73	Doping-Free Titanium Nitride Carrier Selective Contacts for Efficient Organic-Inorganic Hybrid Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9208-9215.	5.1	12
74	Tunable Si Dangling Bond Pathway Induced Forming-Free Hydrogenated Silicon Carbide Resistive Switching Memory Device. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8451-8458.	4.6	6
75	Two-Dimensional Models of Thermoelastic Damping for Out-of-Plane Vibration of Microrings With Circular Cross-Section. <i>IEEE Access</i> , 2020, 8, 214300-214309.	4.2	1
76	Bias-selected full Red/Green/Blue color sensing and imaging based on inversely stacked radial PINIP junctions. <i>Nano Futures</i> , 2020, 4, 035007.	2.2	2
77	Safety issues of defective lithium-ion batteries: identification and risk evaluation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12472-12484.	10.3	55
78	Generalized separator failure criteria for internal short circuit of lithium-ion battery. <i>Journal of Power Sources</i> , 2020, 467, 228360.	7.8	61
79	Exploring high-energy and mechanically robust anode materials based on doped graphene for lithium-ion batteries: a first-principles study. <i>RSC Advances</i> , 2020, 10, 13662-13668.	3.6	10
80	Cooling capacity of a novel modular liquid-cooled battery thermal management system for cylindrical lithium ion batteries. <i>Applied Thermal Engineering</i> , 2020, 178, 115591.	6.0	175
81	Design and performance analysis of human walking induced energy recovery system by means of hydraulic energy conversion and storage. <i>Energy Conversion and Management</i> , 2020, 217, 113008.	9.2	14
82	Cylindrical Line-Feeding Growth of Free-Standing Silicon Nanohelices as Elastic Springs and Resonators. <i>Nano Letters</i> , 2020, 20, 5072-5080.	9.1	16
83	Multiscale topology optimization for non-uniform microstructures with hybrid cellular automata. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 757-770.	3.5	28
84	Multi-scale short circuit resistance estimation method for series connected battery strings. <i>Energy</i> , 2020, 202, 117647.	8.8	30
85	Tungsten-Coated Silicon Nanopillars as Ultra-Broadband and Thermally Robust Solar Harvesting Materials. <i>ACS Applied Nano Materials</i> , 2020, 3, 2430-2437.	5.0	9
86	State-of-health estimation of lithium-ion battery based on fractional impedance model and interval capacity. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 119, 105883.	5.5	75
87	Analytical modeling framework for performance degradation of PEM fuel cells during startup-shutdown cycles. <i>RSC Advances</i> , 2020, 10, 2216-2226.	3.6	13
88	Universal design law of equivalent systems for Nesterenko solitary waves transmission. <i>Granular Matter</i> , 2020, 22, 1.	2.2	7
89	Quantitatively solitary wave tuning strategies based on one-dimensional cylindrical granular chains. <i>Extreme Mechanics Letters</i> , 2020, 40, 100972.	4.1	8
90	Modeling of Thermal Propagation Based on Two Cylindrical Lithium-Ion Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	2.1	5

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91	Low power consumption light emitting device containing TiO ₂ :Er ³⁺ thin film prepared by sol-gel method. Optics Express, 2020, 28, 6064.	3.4	10
92	Design of composite lattice materials combined with fabrication approaches. Journal of Composite Materials, 2019, 53, 393-404.	2.4	19
93	A novel design of a damping failure free energy-harvesting shock absorber system. Mechanical Systems and Signal Processing, 2019, 132, 640-653.	8.0	20
94	Novel mechanical behaviors of DNA-inspired helical structures with chirality. International Journal of Mechanical Sciences, 2019, 161-162, 105025.	6.7	13
95	Low-speed impact mitigation of recoverable DNA-inspired double helical metamaterials. International Journal of Mechanical Sciences, 2019, 161-162, 105050.	6.7	18
96	Fabrication and anti-crushing performance of hollow honeytubes. Composites Part B: Engineering, 2019, 179, 107522.	12.0	16
97	Energy-harvesting variable/constant damping suspension system with motor based electromagnetic damper. Energy, 2019, 189, 116199.	8.8	35
98	H ∞ Control for Battery/Supercapacitor Hybrid Energy Storage System Used in Electric Vehicles. International Journal of Automotive Technology, 2019, 20, 1287-1296.	1.4	13
99	A High Power Low-Cost Balancing System for Battery Strings. Energy Procedia, 2019, 158, 2948-2953.	1.8	30
100	Wavelet Based Relative State of Health Estimation for Lithium-Ion Batteries. Energy Procedia, 2019, 158, 3101-3106.	1.8	3
101	Novel propagation behavior of impact stress wave in one-dimensional hollow spherical structures. International Journal of Impact Engineering, 2019, 134, 103368.	5.0	6
102	Modeling of contact stress among compound particles in high energy lithium-ion battery. Energy Storage Materials, 2019, 18, 23-33.	18.0	54
103	Dynamic mechanical behavior and pedestrian safety characteristics of toughened laminated windshield. Composites Part B: Engineering, 2019, 163, 740-751.	12.0	15
104	Effects of architecture level on mechanical properties of hierarchical lattice materials. International Journal of Mechanical Sciences, 2019, 157-158, 282-292.	6.7	49
105	A Unitized Multiwinding Transformer-Based Equalization Method for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2019, 34, 11981-11989.	7.9	69
106	Lithium ion capacitors (LICs): Development of the materials. Energy Storage Materials, 2019, 19, 314-329.	18.0	180
107	Light but tough bio-inherited materials: Luffa sponge based nickel-plated composites. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 94, 10-18.	3.1	23
108	Crack Initiation and Propagation in Laminated Composite Materials. , 2019, , 433-495.		0

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109	Advanced radial junction thin film photovoltaics and detectors built on standing silicon nanowires. <i>Nanotechnology</i> , 2019, 30, 302001.	2.6	13
110	A Multiphysics Computational Framework for Cylindrical Battery Behavior upon Mechanical Loading Based on LS-DYNA. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1160-A1169.	2.9	36
111	Correlation between electrochemical performance degradation and catalyst structural parameters on polymer electrolyte membrane fuel cell. <i>Nanotechnology Reviews</i> , 2019, 8, 493-502.	5.8	13
112	Numerical Modeling of Magnetomechanical Characteristics of Ni-Mn-Ga Magnetic Shape Memory Alloy. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-9.	2.1	9
113	Simplification of finite element modeling for plates structures with constrained layer damping by using single-layer equivalent material properties. <i>Composites Part B: Engineering</i> , 2019, 157, 283-288.	12.0	25
114	A detailed computational model for cylindrical lithium-ion batteries under mechanical loading: From cell deformation to short-circuit onset. <i>Journal of Power Sources</i> , 2019, 413, 284-292.	7.8	131
115	A Simultaneous Multiscale and Multiphysics Model and Numerical Implementation of a Core-Shell Model for Lithium-Ion Full-Cell Batteries. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	2.2	33
116	Highly efficient solar steam generation via mass-produced carbon nanosheet frameworks. <i>Carbon</i> , 2019, 145, 352-358.	10.3	57
117	Unlocking the coupling mechanical-electrochemical behavior of lithium-ion battery upon dynamic mechanical loading. <i>Energy</i> , 2019, 166, 951-960.	8.8	80
118	Plasmon-enhanced upconversion luminescence in pyrochlore phase $\text{Yb}_x\text{Er}_{2-x}\text{Ti}_2\text{O}_7$ thin film. <i>Nanotechnology</i> , 2019, 30, 085701.	2.6	8
119	Mechanical properties and impact performance of silk-epoxy resin composites modulated by flax fibres. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 117, 357-368.	7.6	56
120	Crushing resistance and energy absorption of pomelo peel inspired hierarchical honeycomb. <i>International Journal of Impact Engineering</i> , 2019, 125, 163-172.	5.0	154
121	Structural integrity analysis of transmission structure in flapping-wing micro aerial vehicle via 3D printing. <i>Engineering Failure Analysis</i> , 2019, 96, 18-30.	4.0	16
122	Investigation of energy transfer mechanisms in rare-earth doped amorphous silica films embedded with tin oxide nanocrystals. <i>Optics Express</i> , 2019, 27, 2783.	3.4	13
123	Coupled boron-doping and geometry control of tin-catalyzed silicon nanowires for high performance radial junction photovoltaics. <i>Optics Express</i> , 2019, 27, 37248.	3.4	9
124	A Review on the Battery Balancing and Reconfiguration Methods. <i>DEStech Transactions on Environment Energy and Earth Science</i> , 2019, , .	0.0	0
125	Dynamic compressive behavior of woven flax-epoxy-laminated composites. <i>International Journal of Impact Engineering</i> , 2018, 117, 63-74.	5.0	29
126	Fabrication of fly ash cenospheres-hollow glass microspheres/borosilicate glass composites for high temperature application. <i>Ceramics International</i> , 2018, 44, 1147-1155.	4.8	21

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127	Safety issues caused by internal short circuits in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21475-21484.	10.3	181
128	Injury Analysis and Prevention in Vehicle Safety. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-2.	1.1	0
129	The Adaptive Fading Extended Kalman Filter SOC Estimation Method for Lithium-ion Batteries. <i>Energy Procedia</i> , 2018, 145, 357-362.	1.8	33
130	Size-dependent phosphorus doping effect in nanocrystalline-Si-based multilayers. <i>Applied Surface Science</i> , 2018, 461, 66-71.	6.1	8
131	Additive Manufacturing as a Method to Design and Optimize Bioinspired Structures. <i>Advanced Materials</i> , 2018, 30, e1800940.	21.0	158
132	Dynamic behaviour of core-shell structured Si nanoparticles during lithiation/delithiation cycling at dynamic loadings. <i>EPJ Web of Conferences</i> , 2018, 183, 01018.	0.3	0
133	Microscopic Understanding of the Carrier Transport Process in Ge Nanocrystals Films. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-6.	2.7	4
134	Unlocking the significant role of shell material for lithium-ion battery safety. <i>Materials and Design</i> , 2018, 160, 601-610.	7.0	42
135	Micelle-Assisted Strategy for the Direct Synthesis of Large-Sized Mesoporous Platinum Catalysts by Vapor Infiltration of a Reducing Agent. <i>Nanomaterials</i> , 2018, 8, 841.	4.1	3
136	A highly effective energy mitigation system combining carbon nanotube and buckyballs. <i>European Physical Journal: Special Topics</i> , 2018, 227, 155-166.	2.6	4
137	Compression behavior and energy absorption capacity of woven flax-epoxy composite under various strain rates. <i>EPJ Web of Conferences</i> , 2018, 183, 02062.	0.3	3
138	Enhanced up-conversion red light emission from rare earth titanium oxide nanocrystals with pyrochlore phase. <i>Optical Materials Express</i> , 2018, 8, 2643.	3.0	13
139	Mechanical integrity of 18650 lithium-ion battery module: Packing density and packing mode. <i>Engineering Failure Analysis</i> , 2018, 91, 315-326.	4.0	62
140	A soft chemistry-based route to enhanced photoluminescence of terbium ions and tin oxide nanocrystals codoped silica thin films. <i>Applied Surface Science</i> , 2018, 452, 96-101.	6.1	13
141	Numerical Investigation on Head and Brain Injuries Caused by Windshield Impact on Riders Using Electric Self-Balancing Scooters. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-15.	1.1	12
142	Rapid Estimation Method for State of Charge of Lithium-Ion Battery Based on Fractional Continual Variable Order Model. <i>Energies</i> , 2018, 11, 714.	3.1	15
143	Wavelet Based Denoising for the Estimation of the State of Charge for Lithium-Ion Batteries. <i>Energies</i> , 2018, 11, 1144.	3.1	23
144	Compressive properties of hollow lattice truss reinforced honeycombs (Honeytubes) by additive manufacturing: Patterning and tube alignment effects. <i>Materials and Design</i> , 2018, 156, 446-457.	7.0	75

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145	Doping effect in Si nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 233002.	2.8	12
146	Mechanical characterization and modeling for anodes and cathodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 392, 265-273.	7.8	85
147	Firmly standing three-dimensional radial junctions on soft aluminum foils enable extremely low cost flexible thin film solar cells with very high power-to-weight performance. <i>Nano Energy</i> , 2018, 53, 83-90.	16.0	25
148	Introducing composite lattice core sandwich structure as an alternative proposal for engine hood. <i>Composite Structures</i> , 2018, 201, 131-140.	5.8	99
149	Adaptive mode switch strategy based on simulated annealing optimization of a multi-mode hybrid energy storage system for electric vehicles. <i>Applied Energy</i> , 2017, 194, 596-608.	10.1	53
150	Enhanced stress wave attenuation of single-walled carbon nanotube lattice via mass mismatch-induced resonance. <i>Carbon</i> , 2017, 116, 391-397.	10.3	8
151	Constitutive behavior and progressive mechanical failure of electrodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 357, 126-137.	7.8	133
152	Mechanical wave propagation within nanogold granular crystals. <i>Extreme Mechanics Letters</i> , 2017, 15, 17-25.	4.1	5
153	State-of-health Estimation of Lithium-ion Battery Based on Interval Capacity. <i>Energy Procedia</i> , 2017, 105, 2342-2347.	1.8	26
154	Duty-ratio Based Adaptive Sliding-mode Control Method for Boost Converter in a Hybrid Energy Storage System. <i>Energy Procedia</i> , 2017, 105, 2360-2365.	1.8	5
155	Investigation of effects of design parameters on the internal short-circuit in cylindrical lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 14360-14371.	3.6	29
156	Honeytubes: Hollow lattice truss reinforced honeycombs for crushing protection. <i>Composite Structures</i> , 2017, 160, 1147-1154.	5.8	58
157	Multiphysics computational framework for cylindrical lithium-ion batteries under mechanical abusive loading. <i>Electrochimica Acta</i> , 2017, 256, 172-184.	5.2	94
158	Dynamic response of internally nested hemispherical shell system to impact loading. <i>Thin-Walled Structures</i> , 2017, 120, 29-37.	5.3	15
159	Mechanical logic switches based on DNA-inspired acoustic metamaterials with ultrabroad low-frequency band gaps. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 465601.	2.8	17
160	Implementation of an estimator-based adaptive sliding mode control strategy for a boost converter based battery/supercapacitor hybrid energy storage system in electric vehicles. <i>Energy Conversion and Management</i> , 2017, 151, 562-572.	9.2	43
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