

# Shuo Chen

## List of Publications by Year in descending order

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149  
papers

22,536  
citations

9756

73  
h-index

8138

148  
g-index

152  
all docs

152  
docs citations

152  
times ranked

22282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum~Gold Nanoparticles: A Highly Active Bifunctional Electrocatalyst for Rechargeable Lithium~Air Batteries. <i>Journal of the American Chemical Society</i> , 2010, 132, 12170-12171.	6.6	1,171
2	High-power lithium batteries from functionalized carbon-nanotube electrodes. <i>Nature Nanotechnology</i> , 2010, 5, 531-537.	15.6	1,026
3	Cu nanowires shelled with NiFe layered double hydroxide nanosheets as bifunctional electrocatalysts for overall water splitting. <i>Energy and Environmental Science</i> , 2017, 10, 1820-1827.	15.6	1,002
4	Instability of Supported Platinum Nanoparticles in Low-Temperature Fuel Cells. <i>Topics in Catalysis</i> , 2007, 46, 285-305.	1.3	839
5	High-performance bifunctional porous non-noble metal phosphide catalyst for overall water splitting. <i>Nature Communications</i> , 2018, 9, 2551.	5.8	812
6	Non-noble metal-nitride based electrocatalysts for high-performance alkaline seawater electrolysis. <i>Nature Communications</i> , 2019, 10, 5106.	5.8	742
7	Carbon Nanotube/Manganese Oxide Ultrathin Film Electrodes for Electrochemical Capacitors. <i>ACS Nano</i> , 2010, 4, 3889-3896.	7.3	686
8	Layer-by-Layer Assembly of All Carbon Nanotube Ultrathin Films for Electrochemical Applications. <i>Journal of the American Chemical Society</i> , 2009, 131, 671-679.	6.6	598
9	Thermoelectric Property Studies on Cu~Doped n~type Cu <sub>x</sub> Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Nanocomposites. <i>Advanced Energy Materials</i> , 2011, 1, 577-587.	10.2	535
10	Ultrafast room-temperature synthesis of porous S-doped Ni/Fe (oxy)hydroxide electrodes for oxygen evolution catalysis in seawater splitting. <i>Energy and Environmental Science</i> , 2020, 13, 3439-3446.	15.6	507
11	Coherent Phonon Heat Conduction in Superlattices. <i>Science</i> , 2012, 338, 936-939.	6.0	489
12	Recent progress of half-Heusler for moderate temperature thermoelectric applications. <i>Materials Today</i> , 2013, 16, 387-395.	8.3	474
13	Water splitting by electrolysis at high current densities under 1.6 volts. <i>Energy and Environmental Science</i> , 2018, 11, 2858-2864.	15.6	438
14	Heterogeneous Bimetallic Phosphide Ni <sub>2</sub> P~Fe <sub>2</sub> P as an Efficient Bifunctional Catalyst for Water/Seawater Splitting. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	385
15	Superplastic carbon nanotubes. <i>Nature</i> , 2006, 439, 281-281.	13.7	347
16	Heavy Doping and Band Engineering by Potassium to Improve the Thermoelectric Figure of Merit in p-Type PbTe, PbSe, and PbTe <sub>1~y</sub> Se <sub>y</sub> . <i>Journal of the American Chemical Society</i> , 2012, 134, 10031-10038.	6.6	337
17	Platinum-Alloy Cathode Catalyst Degradation in Proton Exchange Membrane Fuel Cells: Nanometer-Scale Compositional and Morphological Changes. <i>Journal of the Electrochemical Society</i> , 2010, 157, A82.	1.3	314
18	Efficient hydrogen evolution by ternary molybdenum sulfoselenide particles on self-standing porous nickel diselenide foam. <i>Nature Communications</i> , 2016, 7, 12765.	5.8	312

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19	Hierarchical CoP/Ni <sub>5</sub> /P <sub>4</sub> /CoP microsheet arrays as a robust pH-universal electrocatalyst for efficient hydrogen generation. <i>Energy and Environmental Science</i> , 2018, 11, 2246-2252.	15.6	306
20	Highly active catalyst derived from a 3D foam of Fe(PO <sub>3</sub> ) <sub>2</sub> /Ni <sub>2</sub> P for extremely efficient water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5607-5611.	3.3	302
21	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , 2018, 361, 582-585.	6.0	300
22	Studies on Thermoelectric Properties of n-type Polycrystalline SnSe <sub>1-x</sub> S <sub>x</sub> by Iodine Doping. <i>Advanced Energy Materials</i> , 2015, 5, 1500360.	10.2	287
23	One-step synthesis of self-supported porous NiSe <sub>2</sub> /Ni hybrid foam: An efficient 3D electrode for hydrogen evolution reaction. <i>Nano Energy</i> , 2016, 20, 29-36.	8.2	279
24	Enhanced Activity for Oxygen Reduction Reaction on Pt <sub>3</sub> Co Nanoparticles: Direct Evidence of Percolated and Sandwich-Segregation Structures. <i>Journal of the American Chemical Society</i> , 2008, 130, 13818-13819.	6.6	271
25	Thermoelectric properties of copper selenide with ordered selenium layer and disordered copper layer. <i>Nano Energy</i> , 2012, 1, 472-478.	8.2	271
26	Origin of Oxygen Reduction Reaction Activity on Pt <sub>3</sub> Co Nanoparticles: Atomically Resolved Chemical Compositions and Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1109-1125.	1.5	267
27	Hierarchical Cu@CoFe layered double hydroxide core-shell nanoarchitectures as bifunctional electrocatalysts for efficient overall water splitting. <i>Nano Energy</i> , 2017, 41, 327-336.	8.2	252
28	Thin films of carbon nanotubes and chemically reduced graphenes for electrochemical micro-capacitors. <i>Carbon</i> , 2011, 49, 457-467.	5.4	250
29	Stronger phonon scattering by larger differences in atomic mass and size in p-type half-Heuslers Hf <sub>1-x</sub> Ti <sub>x</sub> CoSb <sub>0.8</sub> Sn <sub>0.2</sub> . <i>Energy and Environmental Science</i> , 2012, 5, 7543.	15.6	244
30	Boron-induced Electronic Structure Reformation of CoP Nanoparticles Drives Enhanced pH-universal Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4154-4160.	7.2	221
31	Ternary Ni <sub>2(1-x)</sub> Mo <sub>2x</sub> P nanowire arrays toward efficient and stable hydrogen evolution electrocatalysis under large-current-density. <i>Nano Energy</i> , 2018, 53, 492-500.	8.2	216
32	Atomic-Scale Imaging of Wall-by-Wall Breakdown and Concurrent Transport Measurements in Multiwall Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 236802.	2.9	214
33	Three-Dimensional Nanoporous Iron Nitride Film as an Efficient Electrocatalyst for Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 2052-2057.	5.5	207
34	Trimetallic NiFeMo for Overall Electrochemical Water Splitting with a Low Cell Voltage. <i>ACS Energy Letters</i> , 2018, 3, 546-554.	8.8	205
35	Effect of Hf Concentration on Thermoelectric Properties of Nanostructured n-type Half-Heusler Materials Hf <sub>x</sub> Zr <sub>1-x</sub> NiSn <sub>0.99</sub> Sb <sub>0.01</sub> . <i>Advanced Energy Materials</i> , 2013, 3, 1210-1214.	10.2	195
36	n-type thermoelectric material Mg <sub>2</sub> Sn <sub>0.75</sub> Ge <sub>0.25</sub> for high power generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3269-3274.	3.3	191

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37	Deep defect level engineering: a strategy of optimizing the carrier concentration for high thermoelectric performance. <i>Energy and Environmental Science</i> , 2018, 11, 933-940.	15.6	188
38	Hydrogen Generation from Seawater Electrolysis over a Sandwich-like NiCoN Ni <sub>x</sub> P NiCoN Microsheet Array Catalyst. <i>ACS Energy Letters</i> , 2020, 5, 2681-2689.	8.8	188
39	Roles of Surface Steps on Pt Nanoparticles in Electro-oxidation of Carbon Monoxide and Methanol. <i>Journal of the American Chemical Society</i> , 2009, 131, 15669-15677.	6.6	186
40	Outstanding hydrogen evolution reaction catalyzed by porous nickel diselenide electrocatalysts. <i>Energy and Environmental Science</i> , 2017, 10, 1487-1492.	15.6	176
41	Large-scale Nanophotonic Solar Selective Absorbers for High-efficiency Solar Thermal Energy Conversion. <i>Advanced Materials</i> , 2015, 27, 4585-4591.	11.1	173
42	Graphene decorated vanadium oxide nanowire aerogel for long-cycle-life magnesium battery cathodes. <i>Nano Energy</i> , 2015, 18, 265-272.	8.2	170
43	Amorphous NiFe layered double hydroxide nanosheets decorated on 3D nickel phosphide nanoarrays: a hierarchical core-shell electrocatalyst for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13619-13623.	5.2	169
44	Efficient Alkaline Water/Seawater Hydrogen Evolution by a Nanorod-Structured Ni-MoN Catalyst with Fast Water-Dissociation Kinetics. <i>Advanced Materials</i> , 2022, 34, e2201774.	11.1	165
45	Improved thermoelectric performance of n-type half-Heusler MCo <sub>1-x</sub> Ni <sub>x</sub> Sb (M=Hf, Zr). <i>Materials Today Physics</i> , 2017, 1, 24-30.	2.9	148
46	Thermoelectric Property Study of Nanostructured p-Type Half-Heuslers (Hf, Zr). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (Ti)CoS</i>	10.2	145
47	Rational design of core-shell-structured CoP @FeOOH for efficient seawater electrolysis. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120256.	10.8	141
48	Boron-modified cobalt iron layered double hydroxides for high efficiency seawater oxidation. <i>Nano Energy</i> , 2021, 83, 105838.	8.2	132
49	Thermoelectric properties of Na-doped Zintl compound: Mg <sub>3</sub> NaSb <sub>2</sub> . <i>Acta Materialia</i> , 2015, 93, 187-193.	3.8	131
50	Size Influence on the Oxygen Reduction Reaction Activity and Instability of Supported Pt Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2011, 159, B96-B103.	1.3	130
51	Amorphization mechanism of SrIrO <sub>3</sub> electrocatalyst: How oxygen redox initiates ionic diffusion and structural reorganization. <i>Science Advances</i> , 2021, 7, .	4.7	122
52	Role of Surface Steps of Pt Nanoparticles on the Electrochemical Activity for Oxygen Reduction. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1316-1320.	2.1	121
53	Highly Efficient Hydrogen Evolution from Edge-Oriented WS <sub>2</sub> (111)Se <sub>2</sub> Particles on Three-Dimensional Porous NiSe <sub>2</sub> Foam. <i>Nano Letters</i> , 2016, 16, 7604-7609.	4.5	121
54	High-Mobility Bismuth-based Transparent p-Type Oxide from High-Throughput Material Screening. <i>Chemistry of Materials</i> , 2016, 28, 30-34.	3.2	118

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55	A universal synthesis strategy to make metal nitride electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19728-19732.	5.2	114
56	Real-Time Observation of Tubule Formation from Amorphous Carbon Nanowires under High-Bias Joule Heating. <i>Nano Letters</i> , 2006, 6, 1699-1705.	4.5	112
57	High performance cathode material based on Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> and Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> for sodium-ion batteries. <i>Energy Storage Materials</i> , 2020, 25, 724-730.	9.5	100
58	Giant field enhancement at carbon nanotube tips induced by multistage effect. <i>Applied Physics Letters</i> , 2005, 87, 053110.	1.5	98
59	Photo, pH and redox multi-responsive nanogels for drug delivery and fluorescence cell imaging. <i>Polymer Chemistry</i> , 2017, 8, 6150-6157.	1.9	96
60	Enhancement of thermoelectric figure-of-merit at low temperatures by titanium substitution for hafnium in n-type half-Heuslers Hf <sub>0.75</sub> Ti <sub>1</sub> Zr <sub>0.25</sub> Ni <sub>1</sub> Sn <sub>0.99</sub> Sb <sub>0.01</sub> . <i>Nano Energy</i> , 2013, 2, 82-87.	8.2	95
61	Enhancement of Thermoelectric Performance of n-Type PbSe by Cr Doping with Optimized Carrier Concentration. <i>Advanced Energy Materials</i> , 2015, 5, 1401977.	10.2	92
62	A new n-type half-Heusler thermoelectric material NbCoSb. <i>Materials Research Bulletin</i> , 2015, 70, 773-778.	2.7	89
63	Green Fabrication of Silkworm Cocoon-like Silicon-Based Composite for High-Performance Li-Ion Batteries. <i>ACS Nano</i> , 2017, 11, 8628-8635.	7.3	88
64	Robust Hydrogen-Evolving Electrocatalyst from Heterogeneous Molybdenum Disulfide-Based Catalyst. <i>ACS Catalysis</i> , 2020, 10, 1511-1519.	5.5	88
65	Highly Efficient Hydrogen Evolution from a Mesoporous Hybrid of Nickel Phosphide Nanoparticles Anchored on Cobalt Phosphosulfide/Phosphide Nanosheet Arrays. <i>Small</i> , 2019, 15, e1804272.	5.2	87
66	Ambipolar Self-Host Functionalization Accelerates Blue Multi-Resonance Thermally Activated Delayed Fluorescence with Internal Quantum Efficiency of 100%. <i>Advanced Materials</i> , 2022, 34, e21110547.	11.1	85
67	Significantly enhanced thermoelectric properties of p-type Mg <sub>3</sub> Sb <sub>2</sub> via co-doping of Na and Zn. <i>Acta Materialia</i> , 2018, 143, 265-271.	3.8	82
68	In Situ Growth of Ru Nanoparticles on (Fe,Ni)(OH) <sub>2</sub> to Boost Hydrogen Evolution Activity at High Current Density in Alkaline Media. <i>Small Methods</i> , 2020, 4, 1900796.	4.6	82
69	High thermoelectric power factor in Cu-Ni alloy originate from potential barrier scattering of twin boundaries. <i>Nano Energy</i> , 2015, 17, 279-289.	8.2	81
70	Effects of surface chemistry on thermal conductance at aluminum-diamond interfaces. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	78
71	Sub-Nanometer-Resolution Elemental Mapping of Pt <sub>3</sub> Co Nanoparticle Catalyst Degradation in Proton-Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 161-166.	2.1	77
72	Regulating the allocation of N and P in codoped graphene via supramolecular control to remarkably boost hydrogen evolution. <i>Energy and Environmental Science</i> , 2019, 12, 2697-2705.	15.6	77

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73	VS <sub>4</sub> with a chain crystal structure used as an intercalation cathode for aqueous Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10761-10766.	5.2	77
74	Highly active and durable self-standing WS <sub>2</sub> /graphene hybrid catalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9472-9476.	5.2	75
75	Kink Formation and Motion in Carbon Nanotubes at High Temperatures. <i>Physical Review Letters</i> , 2006, 97, 075501.	2.9	74
76	Study on thermoelectric performance by Na doping in nanostructured Mg <sub>1</sub> -Na Ag <sub>0.97</sub> Sb <sub>0.99</sub> . <i>Nano Energy</i> , 2015, 11, 640-646.	8.2	74
77	Synthesis and thermoelectric properties of n-type half-Heusler compound VCoSb with valence electron count of 19. <i>Journal of Alloys and Compounds</i> , 2016, 654, 321-326.	2.8	74
78	Facile synthesis of nanoparticle-stacked tungsten-doped nickel iron layered double hydroxide nanosheets for boosting oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8096-8103.	5.2	73
79	Highly efficient hydrogen evolution by self-standing nickel phosphide-based hybrid nanosheet arrays electrocatalyst. <i>Materials Today Physics</i> , 2018, 4, 1-6.	2.9	72
80	Promoting Highly Reversible Sodium Storage of Iron Sulfide Hollow Polyhedrons via Cobalt Incorporation and Graphene Wrapping. <i>Advanced Energy Materials</i> , 2019, 9, 1901584.	10.2	71
81	Highly Robust Non-Noble Alkaline Hydrogen-Evolving Electrocatalyst from Se-Doped Molybdenum Disulfide Particles on Interwoven CoSe <sub>2</sub> Nanowire Arrays. <i>Small</i> , 2020, 16, e1906629.	5.2	70
82	Studies on mechanical properties of thermoelectric materials by nanoindentation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2191-2195.	0.8	69
83	Bi <sub>2</sub> Se <sub>3</sub> /C Nanocomposite as a New Sodium-Ion Battery Anode Material. <i>Nano-Micro Letters</i> , 2018, 10, 50.	14.4	65
84	Bi <sub>2</sub> S <sub>3</sub> nanonetwork as precursor for improved thermoelectric performance. <i>Nano Energy</i> , 2014, 4, 113-122.	8.2	64
85	Suppression of grain growth by additive in nanostructured p-type bismuth antimony tellurides. <i>Nano Energy</i> , 2012, 1, 183-189.	8.2	57
86	Recent Advances in Self-Supported Layered Double Hydroxides for Oxygen Evolution Reaction. <i>Research</i> , 2020, 2020, 3976278.	2.8	57
87	Investigating the thermoelectric properties of p-type half-Heusler Hf <sub>x</sub> (ZrTi) <sub>1-x</sub> CoSb <sub>0.8</sub> Sn <sub>0.2</sub> by reducing Hf concentration for power generation. <i>RSC Advances</i> , 2014, 4, 64711-64716.	1.7	54
88	Realizing a Rechargeable High-Performance Cu <sup>+</sup> /Zn Battery by Adjusting the Solubility of Cu <sup>2+</sup> . <i>Advanced Functional Materials</i> , 2019, 29, 1905979.	7.8	54
89	Enhanced Ductile Behavior of Tensile-Elongated Individual Double-Walled and Triple-Walled Carbon Nanotubes at High Temperatures. <i>Physical Review Letters</i> , 2007, 98, 185501.	2.9	53
90	Siderophore and Organic Acid Promoted Dissolution and Transformation of Cr(III)-Fe(III)-(oxy)hydroxides. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3223-3232.	4.6	53

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91	Submicron silicon encapsulated with graphene and carbon as a scalable anode for lithium-ion batteries. Carbon, 2017, 119, 438-445.	5.4	53
92	Facile synthesis and in situ transmission electron microscopy investigation of a highly stable Sb <sub>2</sub> Te <sub>3</sub> /C nanocomposite for sodium-ion batteries. Energy Storage Materials, 2017, 9, 214-220.	9.5	53
93	Thermoelectric property enhancement in Yb-doped n-type skutterudites Yb <sub>x</sub> Co <sub>4</sub> Sb <sub>12</sub> . Acta Materialia, 2014, 75, 316-321.	3.8	52
94	Novel quadridentate salen type triple-decker sandwich ytterbium complexes with near infrared luminescence. CrystEngComm, 2011, 13, 36-39.	1.3	51
95	Field emission of silicon nanowires grown on carbon cloth. Applied Physics Letters, 2007, 90, 033112.	1.5	50
96	Field emission of silicon nanowires. Applied Physics Letters, 2006, 88, 213108.	1.5	47
97	A hot-wire probe for thermal measurements of nanowires and nanotubes inside a transmission electron microscope. Review of Scientific Instruments, 2007, 78, 104903.	0.6	47
98	Vacancy-Based Defect Regulation for High Thermoelectric Performance in Ge <sub>9</sub> Sb <sub>2</sub> Te <sub>12</sub> Compounds. ACS Applied Materials & Interfaces, 2020, 12, 19664-19673.	4.0	47
99	The effect of carbon quantum dots on the electrocatalytic hydrogen evolution reaction of manganese-nickel phosphide nanosheets. Journal of Materials Chemistry A, 2019, 7, 21488-21495.	5.2	46
100	Dramatic thermal conductivity reduction by nanostructures for large increase in thermoelectric figure-of-merit of FeSb <sub>2</sub> . Applied Physics Letters, 2011, 99, .	1.5	45
101	Effect of aluminum on the thermoelectric properties of nanostructured PbTe. Nanotechnology, 2013, 24, 345705.	1.3	44
102	Effects of Defects on the Temperature-Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. Advanced Functional Materials, 2017, 27, 1704357.	7.8	44
103	Strengthening via deformation twinning in a nickel alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 480, 75-83.	2.6	43
104	Seeded growth of boron arsenide single crystals with high thermal conductivity. Applied Physics Letters, 2018, 112, .	1.5	43
105	High-bias-induced structure and the corresponding electronic property changes in carbon nanotubes. Applied Physics Letters, 2005, 87, 263107.	1.5	41
106	Enhancement of field emission of aligned carbon nanotubes by thermal oxidation. Applied Physics Letters, 2006, 89, 223119.	1.5	41
107	Synthesis and characterization of boron carbide nanoparticles. Applied Physics A: Materials Science and Processing, 2004, 79, 1757-1759.	1.1	38
108	New Strategy for Black Phosphorus Crystal Growth through Ternary Clathrate. Crystal Growth and Design, 2017, 17, 6579-6585.	1.4	38

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109	A high-voltage honeycomb-layered Na <sub>4</sub> NiTeO <sub>6</sub> as cathode material for Na-ion batteries. <i>Journal of Power Sources</i> , 2017, 360, 319-323.	4.0	37
110	Thermoelectric property enhancement by Cu nanoparticles in nanostructured FeSb <sub>2</sub> . <i>Applied Physics Letters</i> , 2013, 102, .	1.5	36
111	Enhancement of thermoelectric performance in n-type PbTe <sub>1-x</sub> Se by doping Cr and tuning Te:Se ratio. <i>Nano Energy</i> , 2015, 13, 355-367.	8.2	36
112	Nickel phosphide based hydrogen producing catalyst with low overpotential and stability at high current density. <i>Electrochimica Acta</i> , 2019, 299, 756-761.	2.6	36
113	Redox Cycling Driven Transformation of Layered Manganese Oxides to Tunnel Structures. <i>Journal of the American Chemical Society</i> , 2020, 142, 2506-2513.	6.6	36
114	Well-oriented epitaxial gold nanotriangles and bowties on MoS <sub>2</sub> for surface-enhanced Raman scattering. <i>Nanoscale</i> , 2015, 7, 9153-9157.	2.8	35
115	Computation-Guided Design of LiTaSiO <sub>5</sub> , a New Lithium Ionic Conductor with Sphene Structure. <i>Advanced Energy Materials</i> , 2019, 9, 1803821.	10.2	35
116	Synthesis, Activity and Durability of Pt Nanoparticles Supported on Multi-walled Carbon Nanotubes for Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1398.	1.3	33
117	Field emission of carbon nanotubes grown on carbon cloth. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 2363.	1.6	26
118	Bio-derived three-dimensional hierarchical carbon-graphene-TiO <sub>2</sub> as electrode for supercapacitors. <i>Scientific Reports</i> , 2018, 8, 4412.	1.6	24
119	Studies on surface preparation and smoothness of nanostructured Bi <sub>2</sub> Te <sub>3</sub> -based alloys by electrochemical and mechanical methods. <i>Electrochimica Acta</i> , 2011, 56, 3079-3084.	2.6	23
120	Boron-Induced Electronic Structure Reformation of CoP Nanoparticles Drives Enhanced pH-Universal Hydrogen Evolution. <i>Angewandte Chemie</i> , 2020, 132, 4183-4189.	1.6	23
121	Nanoparticle-Enabled Selective Electrodeposition. <i>Advanced Materials</i> , 2011, 23, 2454-2459.	11.1	21
122	A Nanoparticle-Decorated Biomolecule-Responsive Polymer Enables Robust Signaling Cascade for Biosensing. <i>Advanced Materials</i> , 2017, 29, 1702090.	11.1	21
123	Elastic constants determined by nanoindentation for p-type thermoelectric half-Heusler. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	19
124	Plasticity in carbon nanotubes: Cooperative conservative dislocation motion. <i>Physical Review B</i> , 2010, 81, .	1.1	18
125	Hydrogen plasma reduced potassium titanate as a high power and ultralong lifespan anode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22037-22042.	5.2	18
126	Thermal-structural relationship of individual titania nanotubes. <i>Nanoscale</i> , 2015, 7, 19004-19011.	2.8	17



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127	Hydrothermally Oxidized Single-Walled Carbon Nanotube Networks for High Volumetric Electrochemical Energy Storage. <i>Small</i> , 2016, 12, 3423-3431.	5.2	17
128	The Influence of Heat-Treatment Temperature on the Cation Distribution of LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> and Its Rate Capability in Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A192.	1.3	16
129	Physisorbed versus chemisorbed oxygen effect on thermoelectric properties of highly organized single walled carbon nanotube nanofilms. <i>RSC Advances</i> , 2017, 7, 14078-14087.	1.7	16
130	New Way to Synthesize Robust and Porous Ni <sub>1-x</sub> Fe <sub>x</sub> Layered Double Hydroxide for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32909-32916.	4.0	16
131	Poly(octadecyl acrylate)-Grafted Multiwalled Carbon Nanotube Composites for Wearable Temperature Sensors. <i>ACS Applied Nano Materials</i> , 2020, 3, 2288-2301.	2.4	16
132	CALPHAD as a powerful technique for design and fabrication of thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6634-6649.	5.2	16
133	Figure-of-merit enhancement in nanostructured FeSb <sub>2</sub> Ag with Ag <sub>1</sub> Sb <sub>1</sub> nanoinclusions. <i>Nanotechnology</i> , 2012, 23, 505402.	1.3	12
134	Gold micromeshes as highly active electrocatalysts for methanol oxidation reaction. <i>RSC Advances</i> , 2017, 7, 22479-22484.	1.7	11
135	Observation of a low temperature n-p transition in individual titania nanotubes. <i>Nanoscale</i> , 2018, 10, 3863-3870.	2.8	11
136	Ultrafast charge in Zn-based batteries through high-potential deposition. <i>Materials Today Physics</i> , 2021, 19, 100425.	2.9	9
137	Synthesis and Oxygen Reduction Reaction Activity of Atomic and Nanoparticle Gold on Thiol-Functionalized Multiwall Carbon Nanotubes. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, B105.	2.2	8
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