

Shuo Chen

List of Publications by Year in descending order

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149
papers

22,536
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9756

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citing authors

#	ARTICLE	IF	CITATIONS
1	Ambipolar Self-Host Functionalization Accelerates Blue Multi-Resonance Thermally Activated Delayed Fluorescence with Internal Quantum Efficiency of 100%. <i>Advanced Materials</i> , 2022, 34, e2110547.	11.1	85
2	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
3	Modulating the valence of Ga and the deep level impurity for high thermoelectric performance of n-type $\text{Pb}_{0.98}\text{Ga}_{0.02}\text{Te}_{1-x}\text{Se}_x$ compounds. <i>Materials Today Physics</i> , 2022, 27, 100766.	2.9	3
4	Heterogeneous Bimetallic Phosphide Ni_2P - Fe_2P as an Efficient Bifunctional Catalyst for Water/Seawater Splitting. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	385
5	Amorphization mechanism of SrIrO_3 electrocatalyst: How oxygen redox initiates ionic diffusion and structural reorganization. <i>Science Advances</i> , 2021, 7, .	4.7	122
6	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
7	Resolving Nanocomposite Interfaces via Simultaneous Submicrometer Optical-Photothermal Infrared-Raman Microspectroscopy. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001720.	1.9	6
8	Interfacial Superconductivity Achieved in Parent AEFe_2As_2 ($\text{AE} = \text{Ca}, \text{Sr}, \text{Ba}$) by a Simple and Realistic Annealing Route. <i>Nano Letters</i> , 2021, 21, 2191-2198.	4.5	5
9	Thermosensitive and Conductive Hybrid Polymer for Real-Time Monitoring of Spheroid Growth and Drug Responses. <i>ACS Sensors</i> , 2021, 6, 2147-2157.	4.0	3
10	Boron-modified cobalt iron layered double hydroxides for high efficiency seawater oxidation. <i>Nano Energy</i> , 2021, 83, 105838.	8.2	132
11	Ultrafast charge in Zn-based batteries through high-potential deposition. <i>Materials Today Physics</i> , 2021, 19, 100425.	2.9	9
12	Rational design of core-shell-structured $\text{CoP}@\text{FeOOH}$ for efficient seawater electrolysis. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120256.	10.8	141
13	High performance cathode material based on $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ and $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ for sodium-ion batteries. <i>Energy Storage Materials</i> , 2020, 25, 724-730.	9.5	100
14	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
15	Robust Hydrogen-Evolving Electrocatalyst from Heterogeneous Molybdenum Disulfide-Based Catalyst. <i>ACS Catalysis</i> , 2020, 10, 1511-1519.	5.5	88
16	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
17	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
18	Hydrogen Generation from Seawater Electrolysis over a Sandwich-like $\text{NiCoN} \text{Ni}_x\text{P} \text{NiCoN}$ Microsheet Array Catalyst. <i>ACS Energy Letters</i> , 2020, 5, 2681-2689.	8.8	188

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19	VS ₄ 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
20	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
21	Sugar transfer of nanomaterials and flexible electrodes. <i>International Journal of Smart and Nano Materials</i> , 2020, 11, 1-10.	2.0	8
22	Recent Advances in Self-Supported Layered Double Hydroxides for Oxygen Evolution Reaction. <i>Research</i> , 2020, 2020, 3976278.	2.8	57
23	Highly Robust Non-Noble Alkaline Hydrogen-Evolving Electrocatalyst from Se-Doped Molybdenum Disulfide Particles on Interwoven CoSe ₂ Nanowire Arrays. <i>Small</i> , 2020, 16, e1906629.	5.2	70
24	In Situ Growth of Ru Nanoparticles on (Fe,Ni)(OH) ₂ to Boost Hydrogen Evolution Activity at High Current Density in Alkaline Media. <i>Small Methods</i> , 2020, 4, 1900796.	4.6	82
25	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
26	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
27	Vacancy-Based Defect Regulation for High Thermoelectric Performance in Ge ₉ Sb ₂ Te ₁₂ Compounds. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19664-19673.	4.0	47
28	New Way to Synthesize Robust and Porous Ni _{1-x} Fe _x Layered Double Hydroxide for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32909-32916.	4.0	16
29	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
30	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
31	Non-noble metal-nitride based electrocatalysts for high-performance alkaline seawater electrolysis. <i>Nature Communications</i> , 2019, 10, 5106.	5.8	742
32	Realizing a Rechargeable High-Performance Cu-Zn Battery by Adjusting the Solubility of Cu ²⁺ . <i>Advanced Functional Materials</i> , 2019, 29, 1905979.	7.8	54
33	Reversible Sodium Storage: Promoting Highly Reversible Sodium Storage of Iron Sulfide Hollow Polyhedrons via Cobalt Incorporation and Graphene Wrapping (<i>Adv. Energy Mater.</i> 33/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970127.	10.2	1
34	The effect of carbon quantum dots on the electrocatalytic hydrogen evolution reaction of manganese-nickel phosphide nanosheets. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21488-21495.	5.2	46
35	Computation-Guided Design of LiTaSiO ₅ , a New Lithium Ionic Conductor with Sphene Structure. <i>Advanced Energy Materials</i> , 2019, 9, 1803821.	10.2	35
36	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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37	Half-Heusler Thermoelectrics. , 2019, , 203-226.		2
38	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
39	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
40	Improved Thermoelectric Performance of Tellurium by Alloying with a Small Concentration of Selenium to Decrease Lattice Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 511-516.	4.0	8
41	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
42	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
43	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
44	Trimetallic NiFeMo for Overall Electrochemical Water Splitting with a Low Cell Voltage. <i>ACS Energy Letters</i> , 2018, 3, 546-554.	8.8	205
45	Seeded growth of boron arsenide single crystals with high thermal conductivity. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	43
46	Observation of a low temperature n-p transition in individual titania nanotubes. <i>Nanoscale</i> , 2018, 10, 3863-3870.	2.8	11
47	Bio-derived three-dimensional hierarchical carbon-graphene-TiO ₂ as electrode for supercapacitors. <i>Scientific Reports</i> , 2018, 8, 4412.	1.6	24
48	Significantly enhanced thermoelectric properties of p-type Mg ₃ Sb ₂ via co-doping of Na and Zn. <i>Acta Materialia</i> , 2018, 143, 265-271.	3.8	82
49	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
50	Hierarchical CoP/Ni ₅ P ₄ /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
51	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
52	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , 2018, 361, 582-585.	6.0	300
53	High-performance bifunctional porous non-noble metal phosphide catalyst for overall water splitting. <i>Nature Communications</i> , 2018, 9, 2551.	5.8	812
54	Bi ₂ Se ₃ /C Nanocomposite as a New Sodium-Ion Battery Anode Material. <i>Nano-Micro Letters</i> , 2018, 10, 50.	14.4	65

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55	Ternary Ni ₂ (1-x)Mo ₂ xP nanowire arrays toward efficient and stable hydrogen evolution electrocatalysis under large-current-density. <i>Nano Energy</i> , 2018, 53, 492-500.	8.2	216
56	Three-Dimensional Nanoporous Iron Nitride Film as an Efficient Electrocatalyst for Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 2052-2057.	5.5	207
57	Siderophore and Organic Acid Promoted Dissolution and Transformation of Cr(III)-Fe(III)-(oxy)hydroxides. <i>Environmental Science & Technology</i> , 2017, 51, 3223-3232.	4.6	53
58	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
59	Gold micromeshes as highly active electrocatalysts for methanol oxidation reaction. <i>RSC Advances</i> , 2017, 7, 22479-22484.	1.7	11
60	Highly active catalyst derived from a 3D foam of Fe(PO ₃) ₂ /Ni ₂ 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
61	Submicron silicon encapsulated with graphene and carbon as a scalable anode for lithium-ion batteries. <i>Carbon</i> , 2017, 119, 438-445.	5.4	53
62	Outstanding hydrogen evolution reaction catalyzed by porous nickel diselenide electrocatalysts. <i>Energy and Environmental Science</i> , 2017, 10, 1487-1492.	15.6	176
63	A high-voltage honeycomb-layered Na ₄ NiTeO ₆ as cathode material for Na-ion batteries. <i>Journal of Power Sources</i> , 2017, 360, 319-323.	4.0	37
64	A Nanoparticle-Decorated Biomolecule-Responsive Polymer Enables Robust Signaling Cascade for Biosensing. <i>Advanced Materials</i> , 2017, 29, 1702090.	11.1	21
65	New Strategy for Black Phosphorus Crystal Growth through Ternary Clathrate. <i>Crystal Growth and Design</i> , 2017, 17, 6579-6585.	1.4	38
66	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
67	Effects of Defects on the Temperature-Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2017, 27, 1704357.	7.8	44
68	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
69	Improved thermoelectric performance of n-type half-Heusler MCo _{1-x} NixSb (M=Hf, Zr). <i>Materials Today Physics</i> , 2017, 1, 24-30.	2.9	148
70	Facile synthesis and in situ transmission electron microscopy investigation of a highly stable Sb ₂ Te ₃ /C nanocomposite for sodium-ion batteries. <i>Energy Storage Materials</i> , 2017, 9, 214-220.	9.5	53
71	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
72	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

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73	Highly active and durable self-standing WS ₂ /graphene hybrid catalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9472-9476.	5.2	75
74	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
75	Highly Efficient Hydrogen Evolution from Edge-Oriented WS ₂ (1-x)/Se ₂ x Particles on Three-Dimensional Porous NiSe ₂ Foam. <i>Nano Letters</i> , 2016, 16, 7604-7609.	4.5	121
76	Hydrothermally Oxidized Single-Walled Carbon Nanotube Networks for High Volumetric Electrochemical Energy Storage. <i>Small</i> , 2016, 12, 3423-3431.	5.2	17
77	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
78	One-step synthesis of self-supported porous NiSe ₂ /Ni hybrid foam: An efficient 3D electrode for hydrogen evolution reaction. <i>Nano Energy</i> , 2016, 20, 29-36.	8.2	279
79	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
80	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
81	Large-scale Nanophotonic Solar Selective Absorbers for High-efficiency Solar Thermal Energy Conversion. <i>Advanced Materials</i> , 2015, 27, 4585-4591.	11.1	173
82	Thermoelectric properties of Na-doped Zintl compound: Mg ₃ NaSb ₂ . <i>Acta Materialia</i> , 2015, 93, 187-193.	3.8	131
83	Graphene decorated vanadium oxide nanowire aerogel for long-cycle-life magnesium battery cathodes. <i>Nano Energy</i> , 2015, 18, 265-272.	8.2	170
84	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
85	n-type thermoelectric material Mg ₂ Sn _{0.75} Ge _{0.25} 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
86	Enhancement of thermoelectric performance in n-type PbTe _{1-x} Se by doping Cr and tuning Te:Se ratio. <i>Nano Energy</i> , 2015, 13, 355-367.	8.2	36
87	A new n-type half-Heusler thermoelectric material NbCoSb. <i>Materials Research Bulletin</i> , 2015, 70, 773-778.	2.7	89
88	Studies on Thermoelectric Properties of n-type Polycrystalline SnSe _{1-x} S _x by Iodine Doping. <i>Advanced Energy Materials</i> , 2015, 5, 1500360.	10.2	287
89	Well-oriented epitaxial gold nanotriangles and bowties on MoS ₂ for surface-enhanced Raman scattering. <i>Nanoscale</i> , 2015, 7, 9153-9157.	2.8	35
90	High thermoelectric power factor in Cu ₂ Ni alloy originate from potential barrier scattering of twin boundaries. <i>Nano Energy</i> , 2015, 17, 279-289.	8.2	81

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91	Thermal structural relationship of individual titania nanotubes. <i>Nanoscale</i> , 2015, 7, 19004-19011.	2.8	17
92	Study on thermoelectric performance by Na doping in nanostructured Mg _{1-x} Na _x Ag _{0.97} Sb _{0.99} . <i>Nano Energy</i> , 2015, 11, 640-646.	8.2	74
93	Elastic constants determined by nanoindentation for p-type thermoelectric half-Heusler. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	19
94	Investigating the thermoelectric properties of p-type half-Heusler Hf _x (Zr _{1-x})CoSb _{0.8} Sn _{0.2} by reducing Hf concentration for power generation. <i>RSC Advances</i> , 2014, 4, 64711-64716.	1.7	54
95	Bi ₂ S ₃ nanonetwork as precursor for improved thermoelectric performance. <i>Nano Energy</i> , 2014, 4, 113-122.	8.2	64
96	Thermoelectric property enhancement in Yb-doped n-type skutterudites Yb _x Co ₄ Sb ₁₂ . <i>Acta Materialia</i> , 2014, 75, 316-321.	3.8	52
97	Enhancement of thermoelectric figure-of-merit at low temperatures by titanium substitution for hafnium in n-type half-Heuslers Hf _{0.75-x} Ti _x Zr _{0.25} NiSn _{0.99} Sb _{0.01} . <i>Nano Energy</i> , 2013, 2, 82-87.	8.2	95
98	Recent progress of half-Heusler for moderate temperature thermoelectric applications. <i>Materials Today</i> , 2013, 16, 387-395.	8.3	474
99	Effect of Hf Concentration on Thermoelectric Properties of Nanostructured n-Type Half-Heusler Materials Hf _x Zr _{1-x} NiSn _{0.99} Sb _{0.01} . <i>Advanced Energy Materials</i> , 2013, 3, 1210-1214.	10.2	195
100	Synthesis, crystal structures and NIR luminescence of sandwich-like tetradentate salophen phenoxo-bridged heterotrinnuclear metal complexes. <i>Journal of Coordination Chemistry</i> , 2013, 66, 1084-1093.	0.8	3
101	Thermoelectric property enhancement by Cu nanoparticles in nanostructured FeSb ₂ . <i>Applied Physics Letters</i> , 2013, 102, .	1.5	36
102	Thermoelectric Property Study of Nanostructured p-Type Half-Heuslers (Hf, Zr) _{1-x} (Ti, Co) _x ETQqO _{0.0} rgBT /Overlock 10 Tf 50 302 Td (Ti)CoS	10.2	145
103	Effect of aluminum on the thermoelectric properties of nanostructured PbTe. <i>Nanotechnology</i> , 2013, 24, 345705.	1.3	44
104	Figure-of-merit enhancement in nanostructured FeSb _{2-x} Ag _x with Ag _{1-y} Sb _y nanoinclusions. <i>Nanotechnology</i> , 2012, 23, 505402.	1.3	12
105	Coherent Phonon Heat Conduction in Superlattices. <i>Science</i> , 2012, 338, 936-939.	6.0	489
106	Suppression of grain growth by additive in nanostructured p-type bismuth antimony tellurides. <i>Nano Energy</i> , 2012, 1, 183-189.	8.2	57
107	Thermoelectric properties of copper selenide with ordered selenium layer and disordered copper layer. <i>Nano Energy</i> , 2012, 1, 472-478.	8.2	271
108	Sub-Nanometer-Resolution Elemental Mapping of Pt ₃ Co Nanoparticle Catalyst Degradation in Proton-Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 161-166.	2.1	77

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109	Stronger phonon scattering by larger differences in atomic mass and size in p-type half-Heuslers Hf _{1-x} Ti _x CoSb _{0.8} Sn _{0.2} . <i>Energy and Environmental Science</i> , 2012, 5, 7543.	15.6	244
110	Heavy Doping and Band Engineering by Potassium to Improve the Thermoelectric Figure of Merit in p-Type PbTe, PbSe, and PbTe _{1-y} Se _y . <i>Journal of the American Chemical Society</i> , 2012, 134, 10031-10038.	6.6	337
111	The Influence of Heat-Treatment Temperature on the Cation Distribution of LiNi _{0.5} Mn _{0.5} O ₂ and Its Rate Capability in Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A192.	1.3	16
112	Novel quadridentate salen type triple-decker sandwich ytterbium complexes with near infrared luminescence. <i>CrystEngComm</i> , 2011, 13, 36-39.	1.3	51
113	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
114	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
115	Nanoparticle-Enabled Selective Electrodeposition. <i>Advanced Materials</i> , 2011, 23, 2454-2459.	11.1	21
116	Thermoelectric Property Studies on Cu-Doped n-type Cu _x Bi ₂ Te _{2.7} Se _{0.3} Nanocomposites. <i>Advanced Energy Materials</i> , 2011, 1, 577-587.	10.2	535
117	Thin films of carbon nanotubes and chemically reduced graphenes for electrochemical micro-capacitors. <i>Carbon</i> , 2011, 49, 457-467.	5.4	250
118	Studies on surface preparation and smoothness of nanostructured Bi ₂ Te ₃ -based alloys by electrochemical and mechanical methods. <i>Electrochimica Acta</i> , 2011, 56, 3079-3084.	2.6	23
119	Dramatic thermal conductivity reduction by nanostructures for large increase in thermoelectric figure-of-merit of FeSb ₂ . <i>Applied Physics Letters</i> , 2011, 99, .	1.5	45
120	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
121	Plasticity in carbon nanotubes: Cooperative conservative dislocation motion. <i>Physical Review B</i> , 2010, 81, .	1.1	18
122	High-power lithium batteries from functionalized carbon-nanotube electrodes. <i>Nature Nanotechnology</i> , 2010, 5, 531-537.	15.6	1,026
123	Effects of surface chemistry on thermal conductance at aluminum-diamond interfaces. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	78
124	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
125	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
126	Carbon Nanotube/Manganese Oxide Ultrathin Film Electrodes for Electrochemical Capacitors. <i>ACS Nano</i> , 2010, 4, 3889-3896.	7.3	686

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127	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
128	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
129	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
130	Origin of Oxygen Reduction Reaction Activity on $\text{Pt}_{3\text{Co}}$ Nanoparticles: Atomically Resolved Chemical Compositions and Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1109-1125.	1.5	267
131	Strengthening via deformation twinning in a nickel alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 480, 75-83.	2.6	43
132	Enhanced Activity for Oxygen Reduction Reaction on $\text{Pt}_{3\text{Co}}$ Nanoparticles: Direct Evidence of Percolated and Sandwich-Segregation Structures. <i>Journal of the American Chemical Society</i> , 2008, 130, 13818-13819.	6.6	271
133	Field emission of silicon nanowires grown on carbon cloth. <i>Applied Physics Letters</i> , 2007, 90, 033112.	1.5	50
134	A hot-wire probe for thermal measurements of nanowires and nanotubes inside a transmission electron microscope. <i>Review of Scientific Instruments</i> , 2007, 78, 104903.	0.6	47
135	In-situ TEM Study of Bismuth Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1044, 1.	0.1	0
136	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
137	Instability of Supported Platinum Nanoparticles in Low-Temperature Fuel Cells. <i>Topics in Catalysis</i> , 2007, 46, 285-305.	1.3	839
138	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
139	Superplastic carbon nanotubes. <i>Nature</i> , 2006, 439, 281-281.	13.7	347
140	Aligned carbon nanofibres by a low-energy dark discharge for field emission and optoelectronics. <i>Nanotechnology</i> , 2006, 17, 501-505.	1.3	7
141	Kink Formation and Motion in Carbon Nanotubes at High Temperatures. <i>Physical Review Letters</i> , 2006, 97, 075501.	2.9	74
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