

K-H Chen

List of Publications by Year in descending order

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508
papers

22,601
citations

9756

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515
all docs

515
docs citations

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times ranked

25862
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the effect of sputtering pressures on the thermoelectric properties of GeTe films. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162342.	2.8	10
2	Metal-free four-in-one modification of g-C ₃ N ₄ for superior photocatalytic CO ₂ reduction and H ₂ evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132853.	6.6	44
3	Bandgap Shrinkage and Charge Transfer in 2D Layered SnS ₂ Doped with V for Photocatalytic Efficiency Improvement. <i>Small</i> , 2022, 18, e2105076.	5.2	8
4	Achieving synergistic performance through highly compacted microcrystalline rods induced in Mo doped GeTe based compounds. <i>Materials Today Physics</i> , 2022, 22, 100571.	2.9	3
5	Enhancing the photovoltaic properties of SnS-Based solar cells by crystallographic orientation engineering. <i>Solar Energy Materials and Solar Cells</i> , 2022, 236, 111499.	3.0	11
6	Boosting photocatalytic CO ₂ reduction in a ZnS/ZnIn ₂ S ₄ heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO ₂ interaction thereon. <i>Nano Energy</i> , 2022, 93, 106809.	8.2	110
7	Co ₃ V ₂ O ₈ hollow spheres with mesoporous walls as high-capacitance electrode for hybrid supercapacitor device. <i>Chemical Engineering Journal</i> , 2022, 436, 135225.	6.6	42
8	Atomistic insights into highly active reconstructed edges of monolayer 2H-WSe ₂ photocatalyst. <i>Nature Communications</i> , 2022, 13, 1256.	5.8	35
9	Enhancing the Areal Capacity and Stability of Cu ₂ ZnSn ₄ Anode Materials by Carbon Coating: Mechanistic and Structural Studies During Lithiation and Delithiation. <i>ACS Omega</i> , 2022, 7, 9152-9163.	1.6	4
10	S-Scheme $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ Nanocomposites as Heterojunction Photocatalysts for Antibiotic Degradation. <i>ACS Applied Nano Materials</i> , 2022, 5, 4506-4514.	2.4	59
11	Enhanced Thermoelectric Performance in Ternary Skutterudite Co(Ge _{0.5} Te _{0.5}) ₃ via Band Engineering. <i>Inorganic Chemistry</i> , 2022, 61, 4442-4452.	1.9	9
12	Effect of aliovalent substituted highly disordered GeTe compound's thermoelectric performance. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166221.	2.8	1
13	Localized surface plasmonic resonance role of silver nanoparticles in the enhancement of long-chain hydrocarbons of the CO ₂ reduction over Ag-gC ₃ N ₄ /ZnO nanorods photocatalysts. <i>Chemical Engineering Science</i> , 2021, 229, 116049.	1.9	34
14	Superior lithium-ion storage performance of hierarchical tin disulfide and carbon nanotube-carbon cloth composites. <i>Journal of Power Sources</i> , 2021, 482, 228923.	4.0	19
15	Electronic structure modulation of isolated Co-N ₄ electrocatalyst by sulfur for improved pH-universal hydrogen evolution reaction. <i>Nano Energy</i> , 2021, 80, 105544.	8.2	37
16	Microstructural intra-granular cracking in Cu ₂ ZnSn ₄ @C thin-film anode enhanced the electrochemical performance in lithium-ion battery applications. <i>Materials Advances</i> , 2021, 2, 5672-5685.	2.6	3
17	Nanoscale redox mapping at the MoS ₂ -liquid interface. <i>Nature Communications</i> , 2021, 12, 1321.	5.8	19
18	Poly(ether sulfone)-Based Anion Exchange Membranes Containing Dense Quaternary Ammonium Cations and Their Application for Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 2201-2217.	2.5	14

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19	Optimal method for preparing sulfonated polyaryletherketones with high ion exchange capacity by acid-catalyzed crosslinking for proton exchange membrane fuel cells. <i>Journal of Polymer Science</i> , 2021, 59, 706-720.	2.0	6
20	Solar to hydrocarbon production using metal-free water-soluble bulk heterojunction of conducting polymer nanoparticle and graphene oxide. <i>Journal of Chemical Physics</i> , 2021, 154, 164707.	1.2	2
21	Hydrogen enhancing Ga doping efficiency and electron mobility in high-performance transparent conducting Ga-doped ZnO films. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158518.	2.8	25
22	Thermally Strain-Induced Band Gap Opening on Platinum Diselenide-Layered Films: A Promising Two-Dimensional Material with Excellent Thermoelectric Performance. <i>Chemistry of Materials</i> , 2021, 33, 3490-3498.	3.2	18
23	Two-Dimensional Layered NiLiP2S6 Crystals as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Catalysts</i> , 2021, 11, 786.	1.6	3
24	Surface electron accumulation and enhanced hydrogen evolution reaction in MoSe2 basal planes. <i>Nano Energy</i> , 2021, 84, 105922.	8.2	36
25	Copper Zinc Tin Sulfide Anode Materials for Lithium-Ion Batteries at Low Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8970-8979.	3.2	12
26	Impact of Cation Substitution in (Ag _x Cu _{1-x}) ₂ ZnSnSe ₄ Absorber-Based Solar Cells toward 10% Efficiency: Experimental and Theoretical Analyses. <i>Solar Rrl</i> , 2021, 5, 2100441.	3.1	11
27	Enhancing thermoelectric performance of Sn _{0.5} Ge _{0.5} Te via doping with In/Zn, In/Sb and In/Bi. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122444.	1.4	1
28	High-efficient photocatalytic degradation of commercial drugs for pharmaceutical wastewater treatment prospects: A case study of Ag/g-C ₃ N ₄ /ZnO nanocomposite materials. <i>Chemosphere</i> , 2021, 282, 130971.	4.2	39
29	Synergistic Dual-Atom Molecular Catalyst Derived from Low-Temperature Pyrolyzed Heterobimetallic Macrocyclic N ₄ Corrole Complex for Oxygen Reduction. <i>Small</i> , 2021, 17, e2103823.	5.2	11
30	Thickness-Dependent Photocatalysis of Ultra-Thin MoS ₂ Film for Visible-Light-Driven CO ₂ Reduction. <i>Catalysts</i> , 2021, 11, 1295.	1.6	7
31	Enhanced Thermoelectric Properties of In-Filled Co ₄ Sb ₁₂ with InSb Nanoinclusions. <i>ACS Applied Energy Materials</i> , 2020, 3, 635-646.	2.5	29
32	Integrated nano-architected photocatalysts for photochemical CO ₂ reduction. <i>Nanoscale</i> , 2020, 12, 23301-23332.	2.8	59
33	Fast growth of large-grain and continuous MoS ₂ films through a self-capping vapor-liquid-solid method. <i>Nature Communications</i> , 2020, 11, 3682.	5.8	76
34	Probing the active site in single-atom oxygen reduction catalysts via operando X-ray and electrochemical spectroscopy. <i>Nature Communications</i> , 2020, 11, 4233.	5.8	80
35	High αT and Its Origin in Sb-doped GeTe Single Crystals. <i>Advanced Science</i> , 2020, 7, 2002494.	5.6	36
36	A mechanistic study of molecular CO ₂ interaction and adsorption on carbon implanted SnS ₂ thin film for photocatalytic CO ₂ reduction activity. <i>Nano Energy</i> , 2020, 72, 104717.	8.2	55

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37	Highly improved thermoelectric performance of BiCuTeO achieved by decreasing the oxygen content. <i>Materials Today Physics</i> , 2020, 15, 100248.	2.9	9
38	On the Reduction of O ₂ on Cathode Surfaces of Co ^{II} -Corrin and Co ^{II} -Porphyrin: A Computational and Experimental Study on Their Relative Efficiencies in H ₂ O/H ₂ O ₂ Formation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4652-4659.	1.5	4
39	Synergistic optimization of thermoelectric performance of Sb doped GeTe with a strained domain and domain boundaries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5332-5341.	5.2	42
40	Advanced nanoporous separators for stable lithium metal electrodeposition at ultra-high current densities in liquid electrolytes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5095-5104.	5.2	47
41	Edge Doping Effect to the Surface Plasmon Resonances in Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19820-19827.	1.5	8
42	KSCN-induced Interfacial Dipole in Black TiO ₂ for Enhanced Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25186-25194.	4.0	54
43	Enhanced Thermoelectric Performance via Oxygen Manipulation in BiCuTeO. <i>MRS Advances</i> , 2019, 4, 499-505.	0.5	2
44	Polybenzimidazoles containing heterocyclic benzo[c]cinnoline structure prepared by sol-gel process and acid doping level adjustment for high temperature PEMFC application. <i>Polymer</i> , 2019, 182, 121814.	1.8	7
45	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. <i>ACS Sensors</i> , 2019, 4, 406-412.	4.0	46
46	Effect of single metal doping on the thermoelectric properties of SnTe. <i>Sustainable Energy and Fuels</i> , 2019, 3, 251-263.	2.5	21
47	Thermoelectric properties of Pb and Na dual doped BiCuSeO. <i>AIP Advances</i> , 2019, 9, .	0.6	10
48	Enhanced thermoelectric performance of BiCuTeO by excess Bi additions. <i>Ceramics International</i> , 2019, 45, 9254-9259.	2.3	11
49	Effect of Sn Substitution on the Thermoelectric Properties of Synthetic Tetrahedrite. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21686-21696.	4.0	18
50	Interface engineering of CdS/CZTSSe heterojunctions for enhancing the Cu ₂ ZnSn(S,Se) ₄ solar cell efficiency. <i>Materials Today Energy</i> , 2019, 13, 256-266.	2.5	23
51	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metal-Organic-Framework-Derived Cu ^{II} -Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10349-10362.	3.2	83
52	Enhanced thermoelectric performance of GeTe through <i>in situ</i> microdomain and Ge-vacancy control. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15181-15189.	5.2	56
53	Thermoelectric Properties of Zn Doped BiCuSeO. <i>Journal of Electronic Materials</i> , 2019, 48, 3631-3642.	1.0	8
54	Integration of a (Cu ^{II} -S) _n plane in a metal-organic framework affords high electrical conductivity. <i>Nature Communications</i> , 2019, 10, 1721.	5.8	134

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55	Highly efficient nitrogen and carbon coordinated Nâ€“Coâ€“C electrocatalysts on reduced graphene oxide derived from vitamin-B12 for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 7179-7185.	5.2	41
56	Origin of Band Modulation in GeTe-Rich Geâ€“Sbâ€“Te Thin Film. ACS Applied Electronic Materials, 2019, 1, 2619-2625.	2.0	3
57	Thermoelectric and electronic properties of chromium substituted tetrahedrite. Semiconductor Science and Technology, 2019, 34, 035017.	1.0	8
58	Thermoelectric properties of Mn doped BiCuSeO. Materials Research Express, 2019, 6, 086305.	0.8	8
59	Effect of annealing temperature on thermoelectric properties of Ga and In dually doped - ZnO thin films. Journal of Alloys and Compounds, 2018, 747, 156-165.	2.8	33
60	Enhancement in Thermoelectric Properties of TiS ₂ by Sn Addition. Journal of Electronic Materials, 2018, 47, 3091-3098.	1.0	12
61	Carbon-doped SnS ₂ nanostructure as a high-efficiency solar fuel catalyst under visible light. Nature Communications, 2018, 9, 169.	5.8	350
62	Analysis and characterization of an atropisomeric ionomer containing quaternary ammonium groups. Polymer, 2018, 141, 143-153.	1.8	5
63	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-10.	1.9	4
64	Flexible sensor for dopamine detection fabricated by the direct growth of γ -Fe ₂ O ₃ nanoparticles on carbon cloth. Applied Surface Science, 2018, 427, 387-395.	3.1	47
65	Thermoelectric properties of BiCuSeO with bismuth and oxygen vacancies. Journal Physics D: Applied Physics, 2018, 51, 035501.	1.3	13
66	A synergistic "cascade" effect in copper zinc tin sulfide nanowalls for highly stable and efficient lithium ion storage. Nano Energy, 2018, 44, 438-446.	8.2	24
67	Ni Nanocluster Modified Black TiO ₂ with Dual Active Sites for Selective Photocatalytic CO ₂ Reduction. Small, 2018, 14, 1702928.	5.2	116
68	Influence of GeP precipitates on the thermoelectric properties of P-type GeTe and Ge _{0.9} xP _x Sb _{0.1} Te compounds. CrystEngComm, 2018, 20, 6449-6457.	1.3	7
69	Multicolor Ultralow-Threshold Random Laser Assisted by Vertical Graphene Network. Advanced Optical Materials, 2018, 6, 1800382.	3.6	35
70	Above 10% efficiency earth-abundant Cu ₂ ZnSn(S,Se) ₄ solar cells by introducing alkali metal fluoride nanolayers as electron-selective contacts. Nano Energy, 2018, 51, 597-603.	8.2	21
71	Photoconduction properties and anomalous power-dependent quantum efficiency in non-polar ZnO epitaxial films grown by chemical vapor deposition. Applied Physics Letters, 2017, 110, .	1.5	10
72	Geogrid-Inspired Nanostructure to Reinforce a Cu _x Zn _y Sn _z S Nanowall Electrode for High-Stability Electrochemical Energy Conversion Devices. Advanced Energy Materials, 2017, 7, 1602210.	10.2	14

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73	Pyrolysis of Iron- ^{III} Vitamin B9 As a Potential Nonprecious Metal Electrocatalyst for Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2017, 5, 2897-2905.	3.2	13
74	Synthesis and Properties of Poly(ether sulfone)s with Clustered Sulfonic Groups for PEMFC Applications under Various Relative Humidity. ACS Applied Materials & Interfaces, 2017, 9, 9805-9814.	4.0	22
75	Hybrid bimetallic-N4 electrocatalyst derived from a pyrolyzed ferrocene-Co-corrole complex for oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 9279-9286.	5.2	24
76	Multi-porous Co ₃ O ₄ nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 12569-12577.	5.2	96
77	High- γ Samarium-Based Metal-Organic Framework for Gate Dielectric Applications. ACS Applied Materials & Interfaces, 2017, 9, 21872-21878.	4.0	21
78	Enhanced hydrogen evolution reaction on hybrids of cobalt phosphide and molybdenum phosphide. Royal Society Open Science, 2017, 4, 161016.	1.1	16
79	Co-solvent effect on microwave-assisted Cu ₂ ZnSnS ₄ nanoparticles synthesis for thin film solar cell. Solar Energy Materials and Solar Cells, 2017, 161, 416-423.	3.0	12
80	Effect of pore-directing agents in SBA-15 nanoparticles on the performance of Nafion®/SBA-15n composite membranes for DMFC. Journal of Membrane Science, 2017, 526, 106-117.	4.1	33
81	Improved Solar-Driven Photocatalytic Activity of Hybrid Graphene Quantum Dots/ZnO Nanowires: A Direct Z-Scheme Mechanism. ACS Sustainable Chemistry and Engineering, 2017, 5, 367-375.	3.2	109
82	Effect of pore-directing agents and silanol groups in mesoporous silica nanoparticles as Nafion fillers on the performance of DMFCs. RSC Advances, 2016, 6, 111666-111680.	1.7	6
83	Scanning microwave microscope imaging of micro-patterned monolayer graphene grown by chemical vapor deposition. Applied Physics Letters, 2016, 108, 053101.	1.5	6
84	Synthesis of soluble polybenzimidazoles for high-temperature proton exchange membrane fuel cell (PEMFC) applications. Reactive and Functional Polymers, 2016, 108, 122-129.	2.0	25
85	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. ACS Photonics, 2016, 3, 985-991.	3.2	12
86	Fabrication of Cu ₂ ZnSnSe ₄ solar cells through multi-step selenization of layered metallic precursor film. Thin Solid Films, 2016, 618, 42-49.	0.8	11
87	A facile and green synthesis of copper zinc tin sulfide materials for thin film photovoltaics. Thin Solid Films, 2016, 618, 124-129.	0.8	1
88	Polybenzimidazoles containing bulky substituents and ether linkages for high-temperature proton exchange membrane fuel cell applications. Journal of Membrane Science, 2016, 513, 270-279.	4.1	55
89	Enhanced thermoelectric performance in a percolated bismuth sulfide composite. RSC Advances, 2016, 6, 98952-98955.	1.7	6
90	Enhanced solar cell performance of Cu ₂ ZnSn(S,Se) ₄ thin films through structural control by using multi-metallic stacked nanolayers and fast ramping process for sulfo-selenization. Nano Energy, 2016, 30, 762-770.	8.2	26

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91	Thickness-Dependent Binding Energy Shift in Few-Layer MoS ₂ Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2016, 8, 22637-22646.	4.0	51
92	Photoconductivities in m-plane and c-plane ZnO epitaxial films grown by chemical vapor deposition on LiGaO ₂ substrates: a comparative study. RSC Advances, 2016, 6, 86095-86100.	1.7	6
93	Improving the thermoelectric performance of metastable rock-salt GeTe-rich Ge-Sb-Te thin films through tuning of grain orientation and vacancies. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3122-3129.	0.8	9
94	Nonlinear bandgap opening behavior of BN co-doped graphene. Carbon, 2016, 107, 857-864.	5.4	23
95	Thermoelectric Properties of Indium and Gallium Dually Doped ZnO Thin Films. ACS Applied Materials & Interfaces, 2016, 8, 33916-33923.	4.0	69
96	Directly Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. ChemSusChem, 2016, 9, 370-378.	3.6	52
97	Synthesis and characterization of novel imidazolium-functionalized polyimides for high temperature proton exchange membrane fuel cells. RSC Advances, 2016, 6, 33959-33970.	1.7	15
98	Local property change of graphene induced by a Cu nanoparticle. Carbon, 2016, 98, 666-670.	5.4	6
99	Enhancement of charge collection at shorter wavelengths from alternative CdS deposition conditions for high efficiency CZTSSe solar cells. Solar Energy Materials and Solar Cells, 2016, 149, 49-54.	3.0	15
100	Beaded stream-like CoSe ₂ nanoneedle array for efficient hydrogen evolution electrocatalysis. Journal of Materials Chemistry A, 2016, 4, 4553-4561.	5.2	89
101	Nano-textured fluidic biochip as biological filter for selective survival of neuronal cells. Journal of Biomedical Materials Research - Part A, 2015, 103, 2015-2023.	2.1	11
102	Single-Crystal Y ₂ O ₃ Epitaxially on GaAs(001) and (111) Using Atomic Layer Deposition. Materials, 2015, 8, 7084-7093.	1.3	18
103	Surface plasmon polariton assisted optical switching in noble bimetallic nanoparticle system. Applied Physics Letters, 2015, 106, .	1.5	7
104	Pulsed electrochemical deposition of Pt NPs on polybenzimidazole-CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2015, 40, 14398-14404.	3.8	7
105	A nontoxic solvent based sol-gel Cu ₂ ZnSnS ₄ thin film for high efficiency and scalable low-cost photovoltaic cells. Journal of Materials Chemistry A, 2015, 3, 15324-15330.	5.2	52
106	Functionalizing Biomaterials to Be an Efficient Proton-Exchange Membrane and Methanol Barrier for DMFCs. ACS Sustainable Chemistry and Engineering, 2015, 3, 302-308.	3.2	24
107	Design for Approaching Cicada-Wing Reflectance in Low- and High-Index Biomimetic Nanostructures. ACS Nano, 2015, 9, 301-311.	7.3	86
108	Side Group of Poly(3-alkylthiophene)s Controlled Dispersion of Single-Walled Carbon Nanotubes for Transparent Conducting Film. ACS Applied Materials & Interfaces, 2015, 7, 4616-4622.	4.0	11

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109	Novel polyimides containing benzimidazole for temperature proton exchange membrane fuel. Journal of Membrane Science, 2015, 483, 144-154.	4.1	37
110	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu ₂ ZnSnS ₄ solar cells. Nano Energy, 2015, 16, 438-445.	8.2	70
111	The Effects of Fluorine-Contained Molecules on Improving the Polymer Solar Cell by Curing the Anomalous S-Shaped "V Curve. ACS Applied Materials & Interfaces, 2015, 7, 6683-6689.	4.0	3
112	Transparent, Broadband, Flexible, and Bifacial-Operable Photodetectors Containing a Large-Area Graphene-Gold Oxide Heterojunction. ACS Nano, 2015, 9, 5093-5103.	7.3	62
113	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. Biosensors and Bioelectronics, 2015, 70, 137-144.	5.3	40
114	Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure. CrystEngComm, 2015, 17, 3440-3445.	1.3	25
115	Enhancement of thermoelectric figure of merit in In ₂ -Zn ₄ Sb ₃ by indium doping control. Applied Physics Letters, 2015, 107, .	1.5	26
116	Conducting polymer-based flexible supercapacitor. Energy Science and Engineering, 2015, 3, 2-26.	1.9	516
117	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. Carbon, 2015, 82, 124-134.	5.4	67
118	Comparison of CVD- and MBE-grown GaN Nanowires: Crystallinity, Photoluminescence, and Photoconductivity. Journal of Electronic Materials, 2015, 44, 177-187.	1.0	14
119	Plasmonic Switching in Au-Functionalized GaN Nanowires in the Realm of Surface Plasmon Polariton Propagation: a Single Nanowire Switching Device. Plasmonics, 2015, 10, 347-350.	1.8	9
120	Hierarchically Porous Calcium-containing Manganese Dioxide Nanorod Bundles with Superior Photoelectrochemical Activity. ChemCatChem, 2014, 6, 1684-1690.	1.8	9
121	Plasmon management in index engineered 2.5D hybrid nanostructures for surface-enhanced Raman scattering. NPC Asia Materials, 2014, 6, e123-e123.	3.8	7
122	Photoelectrochemical activity on Ga-polar and N-polar GaN surfaces for energy conversion. Optics Express, 2014, 22, A21.	1.7	26
123	Effect of Copper Oxide Oxidation State on the Polymer-Based Solar Cell Buffer Layers. ACS Applied Materials & Interfaces, 2014, 6, 22445-22450.	4.0	36
124	Surface diffusion controlled formation of high quality vertically aligned InN nanotubes. Journal of Applied Physics, 2014, 116, 124301.	1.1	7
125	Excitons and biexcitons in InGaN quantum dot like localization centers. Nanotechnology, 2014, 25, 495702.	1.3	6
126	Optical properties of plasma-assisted molecular beam epitaxy grown InN/sapphire. Optical Materials, 2014, 37, 1-4.	1.7	7

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127	Production and Storage of Energy with One-Dimensional Semiconductor Nanostructures. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2014, 39, 109-153.	6.8	9
128	Highly Efficient Visible Light Photocatalytic Reduction of CO ₂ to Hydrocarbon Fuels by Cu-Nanoparticle Decorated Graphene Oxide. <i>Nano Letters</i> , 2014, 14, 6097-6103.	4.5	312
129	Surface plasmon resonance-induced color-selective Au-peapodded silica nanowire photodetectors with high photoconductive gain. <i>Nanoscale</i> , 2014, 6, 1264-1270.	2.8	13
130	Nondestructive Characterization of the Structural Quality and Thickness of Large-Area Graphene on Various Substrates. <i>Analytical Chemistry</i> , 2014, 86, 7192-7199.	3.2	8
131	Direct assessment of the mechanical modulus of graphene co-doped with low concentrations of boron-nitrogen by a non-contact approach. <i>Nanoscale</i> , 2014, 6, 8635.	2.8	10
132	A high performance polybenzimidazole-CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7015-7019.	5.2	21
133	SIMS methodology for probing the fate and dispersion of catalytically active molecules. <i>International Journal of Mass Spectrometry</i> , 2014, 370, 107-113.	0.7	5
134	Low temperature magneto-transport properties in bilayered magnetic anti-dot mircoarrays. <i>Applied Surface Science</i> , 2014, 314, 453-457.	3.1	3
135	Binder-free rice husk-based silicon-graphene composite as energy efficient Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13437-13441.	5.2	109
136	Cobalt-Phosphate-Assisted Photoelectrochemical Water Oxidation by Arrays of Molybdenum-Doped Zinc Oxide Nanorods. <i>ChemSusChem</i> , 2014, 7, 2748-2754.	3.6	19
137	Characterization of the cleaning process on a transferred graphene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, .	0.9	10
138	Fabrication of m-axial InGaN nanocolumn arrays on silicon substrates using triethylgallium precursor chemical vapor deposition approach. <i>Applied Surface Science</i> , 2014, 299, 92-96.	3.1	1
139	Graphene-to-Substrate Energy Transfer through Out-of-Plane Longitudinal Acoustic Phonons. <i>Nano Letters</i> , 2014, 14, 1317-1323.	4.5	30
140	Novel Iron Oxyhydroxide Lepidocrocite Nanosheet as Ultrahigh Power Density Anode Material for Asymmetric Supercapacitors. <i>Small</i> , 2014, 10, 3803-3810.	5.2	143
141	Growth of β -Ga ₂ O ₃ and GaN nanowires on GaN for photoelectrochemical hydrogen generation. <i>Nanotechnology</i> , 2013, 24, 055401.	1.3	27
142	Suppressed piezoelectric polarization in single InGaN/GaN heterostructure nanowires. <i>Physical Review B</i> , 2013, 88, .	1.1	11
143	Resistance memory device of La _{0.7} Sr _{0.3} MnO ₃ on Si nanotips template. <i>Applied Physics Letters</i> , 2013, 103, 211606.	1.5	6
144	High-performance pyrolyzed iron corrole as a potential non-precious metal catalyst for PEMFCs. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14692.	5.2	25

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145	Using Optical Anisotropy as a Quality Factor To Rapidly Characterize Structural Qualities of Large-Area Graphene Films. <i>Analytical Chemistry</i> , 2013, 85, 1605-1614.	3.2	11
146	Band Gap Engineering of Chemical Vapor Deposited Graphene by <i>in Situ</i> BN Doping. <i>ACS Nano</i> , 2013, 7, 1333-1341.	7.3	252
147	Graphene oxide as a promising photocatalyst for CO ₂ to methanol conversion. <i>Nanoscale</i> , 2013, 5, 262-268.	2.8	424
148	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. <i>Carbon</i> , 2013, 63, 397-403.	5.4	50
149	Direct-growth of poly(3,4-ethylenedioxythiophene) nanowires/carbon cloth as hierarchical supercapacitor electrode in neutral aqueous solution. <i>Journal of Power Sources</i> , 2013, 242, 718-724.	4.0	60
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