

Li-Chyong Chen

List of Publications by Year in descending order

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444
papers

22,057
citations

10986
71
h-index

13771
129
g-index

447
all docs

447
docs citations

447
times ranked

25366
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the effect of sputtering pressures on the thermoelectric properties of GeTe films. Journal of Alloys and Compounds, 2022, 893, 162342.	5.5	10
2	Metal-free four-in-one modification of g-C ₃ N ₄ for superior photocatalytic CO ₂ reduction and H ₂ evolution. Chemical Engineering Journal, 2022, 430, 132853.	12.7	44
3	Bandgap Shrinkage and Charge Transfer in 2D Layered SnS ₂ Doped with V for Photocatalytic Efficiency Improvement. Small, 2022, 18, e2105076.	10.0	8
4	Achieving synergistic performance through highly compacted microcrystalline rods induced in Mo doped GeTe based compounds. Materials Today Physics, 2022, 22, 100571.	6.0	3
5	Enhancing the photovoltaic properties of SnS-Based solar cells by crystallographic orientation engineering. Solar Energy Materials and Solar Cells, 2022, 236, 111499.	6.2	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. Nano Energy, 2022, 93, 106809.	16.0	110
7	Co ₃ V ₂ O ₈ hollow spheres with mesoporous walls as high-capacitance electrode for hybrid supercapacitor device. Chemical Engineering Journal, 2022, 436, 135225.	12.7	42
8	Photocatalytic CO ₂ reduction for C ₂ -C ₃ oxy-compounds on ZIF-67 derived carbon with TiO ₂ . Journal of CO ₂ Utilization, 2022, 58, 101920.	6.8	8
9	Atomistic insights into highly active reconstructed edges of monolayer 2H-WSe ₂ photocatalyst. Nature Communications, 2022, 13, 1256.	12.8	35
10	Enhancing the Areal Capacity and Stability of Cu ₂ ZnSnS ₄ Anode Materials by Carbon Coating: Mechanistic and Structural Studies During Lithiation and Delithiation. ACS Omega, 2022, 7, 9152-9163.	3.5	4
11	Superior lithium-ion storage performance of hierarchical tin disulfide and carbon nanotube-carbon cloth composites. Journal of Power Sources, 2021, 482, 228923.	7.8	19
12	Electronic structure modulation of isolated Co-N ₄ electrocatalyst by sulfur for improved pH-universal hydrogen evolution reaction. Nano Energy, 2021, 80, 105544.	16.0	37
13	Microstructural intra-granular cracking in Cu ₂ ZnSnS ₄ @C thin-film anode enhanced the electrochemical performance in lithium-ion battery applications. Materials Advances, 2021, 2, 5672-5685.	5.4	3
14	Nanoscale redox mapping at the MoS ₂ -liquid interface. Nature Communications, 2021, 12, 1321.	12.8	19
15	Solar to hydrocarbon production using metal-free water-soluble bulk heterojunction of conducting polymer nanoparticle and graphene oxide. Journal of Chemical Physics, 2021, 154, 164707.	3.0	2
16	Two-Dimensional Layered NiLiP ₂ S ₆ Crystals as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. Catalysts, 2021, 11, 786.	3.5	3
17	Copper Zinc Tin Sulfide Anode Materials for Lithium-Ion Batteries at Low Temperature. ACS Sustainable Chemistry and Engineering, 2021, 9, 8970-8979.	6.7	12
18	Impact of Cation Substitution in (Ag _x Cu _{1-\hat{x}}) ₂ ZnSnSe ₄ Absorber-Based Solar Cells toward 10% Efficiency: Experimental and Theoretical Analyses. Solar Rrl, 2021, 5, 2100441.	5.8	11

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19	Synergistic Dual-Atom Molecular Catalyst Derived from Low-Temperature Pyrolyzed Heterobimetallic Macrocycle-N4 Corrole Complex for Oxygen Reduction. <i>Small</i> , 2021, 17, e2103823.	10.0	11
20	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, 2170106.	5.8	1
21	Thickness-Dependent Photocatalysis of Ultra-Thin MoS ₂ Film for Visible-Light-Driven CO ₂ Reduction. <i>Catalysts</i> , 2021, 11, 1295.	3.5	7
22	Integrated nano-architected photocatalysts for photochemical CO ₂ reduction. <i>Nanoscale</i> , 2020, 12, 23301-23332.	5.6	59
23	Band Edge Tailoring in Few-Layer Two-Dimensional Molybdenum Sulfide/Selenide Alloys. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22893-22902.	3.1	9
24	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.	12.8	76
25	Probing the active site in single-atom oxygen reduction catalysts via operando X-ray and electrochemical spectroscopy. <i>Nature Communications</i> , 2020, 11, 4233.	12.8	80
26	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.	16.0	55
27	Highly improved thermoelectric performance of BiCuTeO achieved by decreasing the oxygen content. <i>Materials Today Physics</i> , 2020, 15, 100248.	6.0	9
28	On the Reduction of O ₂ on Cathode Surfaces of Co-Corrin and Co-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.	3.1	4
29	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.	10.3	42
30	Controlling the Oxidation State of the Cu Electrode and Reaction Intermediates for Electrochemical CO ₂ Reduction to Ethylene. <i>Journal of the American Chemical Society</i> , 2020, 142, 2857-2867.	13.7	342
31	(Invited) SnS ₂ Thin Film and Powder for Artificial Photosynthesis. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3095-3095.	0.0	0
32	(Invited) Defect Engineering and Surface Probing of Few-Layer MoS ₂ As Photocatalyst for CO ₂ Reduction to Solar Fuels. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3132-3132.	0.0	0
33	KSCN-induced Interfacial Dipole in Black TiO ₂ for Enhanced Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25186-25194.	8.0	54
34	Enhanced Thermoelectric Performance via Oxygen Manipulation in BiCuTeO. <i>MRS Advances</i> , 2019, 4, 499-505.	0.9	2
35	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. <i>ACS Sensors</i> , 2019, 4, 406-412.	7.8	46
36	Enhanced thermoelectric performance of BiCuTeO by excess Bi additions. <i>Ceramics International</i> , 2019, 45, 9254-9259.	4.8	11

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37	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.	4.7	23
38	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.	10.3	56
39	Highly efficient nitrogen and carbon coordinated N-Co-C electrocatalysts on reduced graphene oxide derived from vitamin-B12 for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7179-7185.	10.3	41
40	Origin of Band Modulation in GeTe-Rich GeSbTe Thin Film. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2619-2625.	4.3	3
41	The dual-defective SnS ₂ monolayers: promising 2D photocatalysts for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26292-26300.	2.8	18
42	Carbon-doped SnS ₂ nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018, 9, 169.	12.8	350
43	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-10.	2.9	4
44	Flexible sensor for dopamine detection fabricated by the direct growth of γ -Fe ₂ O ₃ nanoparticles on carbon cloth. <i>Applied Surface Science</i> , 2018, 427, 387-395.	6.1	47
45	A synergistic cascade-effect in copper zinc tin sulfide nanowalls for highly stable and efficient lithium ion storage. <i>Nano Energy</i> , 2018, 44, 438-446.	16.0	24
46	Ni Nanocluster Modified Black TiO ₂ with Dual Active Sites for Selective Photocatalytic CO ₂ Reduction. <i>Small</i> , 2018, 14, 1702928.	10.0	116
47	Influence of GeP precipitates on the thermoelectric properties of P-type GeTe and Ge _{0.9} _x P _x Sb _{0.1} Te compounds. <i>CrystEngComm</i> , 2018, 20, 6449-6457.	2.6	7
48	Multicolor Ultralow-Threshold Random Laser Assisted by Vertical Graphene Network. <i>Advanced Optical Materials</i> , 2018, 6, 1800382.	7.3	35
49	Above 10% efficiency earth-abundant Cu ₂ ZnSn(S,Se) ₄ solar cells by introducing alkali metal fluoride nanolayers as electron-selective contacts. <i>Nano Energy</i> , 2018, 51, 597-603.	16.0	21
50	Photoconduction properties and anomalous power-dependent quantum efficiency in non-polar ZnO epitaxial films grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	10
51	Geogrid-Inspired Nanostructure to Reinforce a Cu _x Zn _y Sn _z S Nanowall Electrode for High-Stability Electrochemical Energy Conversion Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1602210.	19.5	14
52	Pyrolysis of Iron-Vitamin B9 As a Potential Nonprecious Metal Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2897-2905.	6.7	13
53	Hybrid bimetallic-N4 electrocatalyst derived from a pyrolyzed ferrocene-Co-corrole complex for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9279-9286.	10.3	24
54	Multi-porous Co ₃ O ₄ nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12569-12577.	10.3	96

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55	High- β Samarium-Based Metal-Organic Framework for Gate Dielectric Applications. ACS Applied Materials & Interfaces, 2017, 9, 21872-21878.	8.0	21
56	Enhanced hydrogen evolution reaction on hybrids of cobalt phosphide and molybdenum phosphide. Royal Society Open Science, 2017, 4, 161016.	2.4	16
57	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.	6.2	12
58	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.	6.7	109
59	Membrane protein assembly: two cytoplasmic phosphorylated serine sites of Vpu from HIV-1 affect oligomerization. Scientific Reports, 2016, 6, 28866.	3.3	9
60	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. ACS Photonics, 2016, 3, 985-991.	6.6	12
61	Fabrication of Cu ₂ ZnSnSe ₄ solar cells through multi-step selenization of layered metallic precursor film. Thin Solid Films, 2016, 618, 42-49.	1.8	11
62	A facile and green synthesis of copper zinc tin sulfide materials for thin film photovoltaics. Thin Solid Films, 2016, 618, 124-129.	1.8	1
63	Enhanced thermoelectric performance in a percolated bismuth sulfide composite. RSC Advances, 2016, 6, 98952-98955.	3.6	6
64	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.	16.0	26
65	Thickness-Dependent Binding Energy Shift in Few-Layer MoS ₂ Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2016, 8, 22637-22646.	8.0	51
66	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.	3.6	6
67	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.	1.8	9
68	Nonlinear bandgap opening behavior of BN co-doped graphene. Carbon, 2016, 107, 857-864.	10.3	23
69	Directly-Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. ChemSusChem, 2016, 9, 370-378.	6.8	52
70	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.	6.2	15
71	Beaded stream-like CoSe ₂ nanoneedle array for efficient hydrogen evolution electrocatalysis. Journal of Materials Chemistry A, 2016, 4, 4553-4561.	10.3	89
72	Nano-textured fluidic biochip as biological filter for selective survival of neuronal cells. Journal of Biomedical Materials Research - Part A, 2015, 103, 2015-2023.	4.0	11

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73	Pulsed electrochemical deposition of Pt NPs on polybenzimidazole-CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14398-14404.	7.1	7
74	A nontoxic solvent based sol-gel $\text{Cu}_{2\text{ZnSnS}_4}$ thin film for high efficiency and scalable low-cost photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15324-15330.	10.3	52
75	Functionalizing Biomaterials to Be an Efficient Proton-Exchange Membrane and Methanol Barrier for DMFCs. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 302-308.	6.7	24
76	Design for Approaching Cicada-Wing Reflectance in Low- and High-Index Biomimetic Nanostructures. <i>ACS Nano</i> , 2015, 9, 301-311.	14.6	86
77	Side Group of Poly(3-alkylthiophene)s Controlled Dispersion of Single-Walled Carbon Nanotubes for Transparent Conducting Film. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4616-4622.	8.0	11
78	A new anodic buffer layer material for non-mixed planar heterojunction chloroboron subphthalocyanine organic photovoltaic achieving 96% internal quantum efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 138-145.	6.2	10
79	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in $\text{Cu}_2\text{ZnSnS}_4$ solar cells. <i>Nano Energy</i> , 2015, 16, 438-445.	16.0	70
80	The Effects of Fluorine-Contained Molecules on Improving the Polymer Solar Cell by Curing the Anomalous S-Shaped π -V Curve. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6683-6689.	8.0	3
81	Transparent, Broadband, Flexible, and Bifacial-Operable Photodetectors Containing a Large-Area Graphene-Gold Oxide Heterojunction. <i>ACS Nano</i> , 2015, 9, 5093-5103.	14.6	62
82	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. <i>Biosensors and Bioelectronics</i> , 2015, 70, 137-144.	10.1	40
83	Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure. <i>CrystEngComm</i> , 2015, 17, 3440-3445.	2.6	25
84	Conducting polymer-based flexible supercapacitor. <i>Energy Science and Engineering</i> , 2015, 3, 2-26.	4.0	516
85	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. <i>Carbon</i> , 2015, 82, 124-134.	10.3	67
86	Comparison of CVD- and MBE-grown GaN Nanowires: Crystallinity, Photoluminescence, and Photoconductivity. <i>Journal of Electronic Materials</i> , 2015, 44, 177-187.	2.2	14
87	Hierarchically Porous Calcium-containing Manganese Dioxide Nanorod Bundles with Superior Photoelectrochemical Activity. <i>ChemCatChem</i> , 2014, 6, 1684-1690.	3.7	9
88	Plasmon management in index engineered 2.5D hybrid nanostructures for surface-enhanced Raman scattering. <i>NPG Asia Materials</i> , 2014, 6, e123-e123.	7.9	7
89	Photoelectrochemical activity on Ga-polar and N-polar GaN surfaces for energy conversion. <i>Optics Express</i> , 2014, 22, A21.	3.4	26
90	Effect of Copper Oxide Oxidation State on the Polymer-Based Solar Cell Buffer Layers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22445-22450.	8.0	36

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91	Assessing structural, free-charge carrier, and phonon properties of mixed-phase epitaxial films: The case of InN. <i>Physical Review B</i> , 2014, 90, .	3.2	15
92	Surface diffusion controlled formation of high quality vertically aligned InN nanotubes. <i>Journal of Applied Physics</i> , 2014, 116, 124301.	2.5	7
93	Excitons and biexcitons in InGaN quantum dot like localization centers. <i>Nanotechnology</i> , 2014, 25, 495702.	2.6	6
94	Optical properties of plasma-assisted molecular beam epitaxy grown InN/sapphire. <i>Optical Materials</i> , 2014, 37, 1-4.	3.6	7
95	Production and Storage of Energy with One-Dimensional Semiconductor Nanostructures. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2014, 39, 109-153.	12.3	9
96	Complete Corrosion Inhibition through Graphene Defect Passivation. <i>ACS Nano</i> , 2014, 8, 443-448.	14.6	225
97	Chloroboron subphthalocyanine/C60 planar heterojunction organic solar cell with N,N-dicarbazoyl-3,5-benzene blocking layer. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 264-270.	6.2	33
98	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.	9.1	312
99	Surface plasmon resonance-induced color-selective Au-peapodded silica nanowire photodetectors with high photoconductive gain. <i>Nanoscale</i> , 2014, 6, 1264-1270.	5.6	13
100	Nondestructive Characterization of the Structural Quality and Thickness of Large-Area Graphene on Various Substrates. <i>Analytical Chemistry</i> , 2014, 86, 7192-7199.	6.5	8
101	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.	5.6	10
102	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.	10.3	21
103	SIMS methodology for probing the fate and dispersion of catalytically active molecules. <i>International Journal of Mass Spectrometry</i> , 2014, 370, 107-113.	1.5	5
104	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.	10.3	109
105	Cobalt–Phosphate–Assisted Photoelectrochemical Water Oxidation by Arrays of Molybdenum–Doped Zinc Oxide Nanorods. <i>ChemSusChem</i> , 2014, 7, 2748-2754.	6.8	19
106	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.	6.1	1
107	Graphene-to-Substrate Energy Transfer through Out-of-Plane Longitudinal Acoustic Phonons. <i>Nano Letters</i> , 2014, 14, 1317-1323.	9.1	30
108	Novel Iron Oxyhydroxide Lepidocrocite Nanosheet as Ultrahigh Power Density Anode Material for Asymmetric Supercapacitors. <i>Small</i> , 2014, 10, 3803-3810.	10.0	143

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109	Growth of $\text{In}^{2+}\text{-Ga}_{2/3}\text{O}_{3/2}$ and GaN nanowires on GaN for photoelectrochemical hydrogen generation. <i>Nanotechnology</i> , 2013, 24, 055401.	2.6	27
110	Suppressed piezoelectric polarization in single InGaN/GaN heterostructure nanowires. <i>Physical Review B</i> , 2013, 88, .	3.2	11
111	Resistance memory device of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ on Si nanotips template. <i>Applied Physics Letters</i> , 2013, 103, 211606.	3.3	6
112	High-performance pyrolyzed iron corrole as a potential non-precious metal catalyst for PEMFCs. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14692.	10.3	25
113	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.	6.5	11
114	Band Gap Engineering of Chemical Vapor Deposited Graphene by <i>in Situ</i> BN Doping. <i>ACS Nano</i> , 2013, 7, 1333-1341.	14.6	252
115	Graphene oxide as a promising photocatalyst for CO_2 to methanol conversion. <i>Nanoscale</i> , 2013, 5, 262-268.	5.6	424
116	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. <i>Carbon</i> , 2013, 63, 397-403.	10.3	50
117	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.	7.8	60
118	Improved corrosion resistance of GaN electrodes in NaCl electrolyte for photoelectrochemical hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14433-14439.	7.1	14
119	Effect of chemical doping of boron and nitrogen on the electronic, optical, and electrochemical properties of carbon nanotubes. <i>Progress in Materials Science</i> , 2013, 58, 565-635.	32.8	276
120	Imaging layer number and stacking order through formulating Raman fingerprints obtained from hexagonal single crystals of few layer graphene. <i>Nanotechnology</i> , 2013, 24, 015702.	2.6	48
121	Atomistic nucleation sites of Pt nanoparticles on N-doped carbon nanotubes. <i>Nanoscale</i> , 2013, 5, 6812.	5.6	35
122	High <i>K</i> Nanophase Zinc Oxide on Biomimetic Silicon Nanotip Array as Supercapacitors. <i>Nano Letters</i> , 2013, 13, 1422-1428.	9.1	27
123	Anomalous quantum efficiency for photoconduction and its power dependence in metal oxide semiconductor nanowires. <i>Nanoscale</i> , 2013, 5, 6867.	5.6	22
124	Photoconduction efficiencies of metal oxide semiconductor nanowires: The material's inherent properties. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	16
125	Nucleation of single GaN nanorods with diameters smaller than 35 nm by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	6
126	Surface plasmon-enhanced gas sensing in single gold-peapodded silica nanowires. <i>NPG Asia Materials</i> , 2013, 5, e49-e49.	7.9	19

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127	Biomimetic nanostructures for anti-reflection (AR) devices. , 2012, , 108-146.		1
128	Growth of sparse arrays of narrow GaN nanorods hosting spectrally stable InGaN quantum disks. Optics Express, 2012, 20, 16166.	3.4	11
129	Photoconduction efficiencies and dynamics in GaN nanowires grown by chemical vapor deposition and molecular beam epitaxy: A comparison study. Applied Physics Letters, 2012, 101, .	3.3	17
130	Spontaneous Synthesis and Electrochemical Characterization of Nanostructured MnO ₂ on Nitrogen-Incorporated Carbon Nanotubes. International Journal of Electrochemistry, 2012, 2012, 1-10.	2.4	2
131	Magnetic-field and temperature dependence of the energy gap in InN nanobelt. AIP Advances, 2012, 2, .	1.3	2
132	Gold nanoparticle-modulated conductivity in gold peapodded silica nanowires. Nanoscale, 2012, 4, 3660.	5.6	8
133	Patterned growth of nanocrystalline silicon thin films through magnesiothermic reduction of soda lime glass. Green Chemistry, 2012, 14, 896.	9.0	19
134	Polarized and diameter-dependent Raman scattering from individual aluminum nitride nanowires: The antenna and cavity effects. Applied Physics Letters, 2012, 101, 121902.	3.3	15
135	Room-temperature heteroepitaxy of single-phase Al _{1-x} In _x N films with full composition range on isostructural wurtzite templates. Thin Solid Films, 2012, 524, 113-120.	1.8	24
136	Dynamic characteristics of the exciton and the biexciton in a single InGaN quantum dot. Applied Physics Letters, 2012, 101, 061910.	3.3	18
137	Photochemically active reduced graphene oxide with controllable oxidation level. RSC Advances, 2012, 2, 11258.	3.6	22
138	Effect of substrate bias on the promotion of nanocrystalline silicon growth from He-diluted SiH ₄ plasma at low temperature. Journal of Materials Research, 2012, 27, 1303-1313.	2.6	12
139	Vitalizing fuel cells with vitamins: pyrolyzed vitamin B12 as a non-precious catalyst for enhanced oxygen reduction reaction of polymer electrolyte fuel cells. Energy and Environmental Science, 2012, 5, 5305-5314.	30.8	115
140	Giant Positive Magnetoresistance in Ferromagnetic Manganites/Silicon Nanotips Diode. Journal of Physical Chemistry C, 2012, 116, 21132-21137.	3.1	9
141	High stability of oxidation of methanol catalyzed by Pt supported by oxygen-incorporated bamboo-shaped CNTs grown directly on carbon cloth. International Journal of Hydrogen Energy, 2012, 37, 10663-10670.	7.1	5
142	Eco-Friendly Plasmonic Sensors: Using the Photothermal Effect to Prepare Metal Nanoparticle-Containing Test Papers for Highly Sensitive Colorimetric Detection. Analytical Chemistry, 2012, 84, 5140-5145.	6.5	67
143	Preparation of non-precious metal catalysts for PEMFC cathode from pyrolyzed vitamin B12. International Journal of Hydrogen Energy, 2012, 37, 13755-13762.	7.1	25
144	Graphene nanosheet/CNT hybrid nanostructure electrode for a proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2012, 37, 18989-18995.	7.1	34

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145	Stand-up structure of graphene-like carbon nanowalls on CNT directly grown on polyacrylonitrile-based carbon fiber paper as supercapacitor. <i>Diamond and Related Materials</i> , 2012, 25, 176-179.	3.9	67
146	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16251-16258.	3.1	51
147	Enhancing efficiency with fluorinated interlayers in small molecule organic solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22899.	6.7	20
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