

Li-Chyong Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

442
papers

18,743
citations

68
h-index

118
g-index

447
ext. papers

20,470
ext. citations

6.2
avg, IF

6.41
L-index

#	Paper	IF	Citations
442	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	14.7	4
441	Photocatalytic CO ₂ reduction for C ₂ -C ₃ oxy-compounds on ZIF-67 derived carbon with TiO ₂ . <i>Journal of CO₂ Utilization</i> , 2022 , 58, 101920	7.6	0
440	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	17.1	9
439	Understanding the effect of sputtering pressures on the thermoelectric properties of GeTe films. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162342	5.7	0
438	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	14.7	7
437	Atomistic insights into highly active reconstructed edges of monolayer 2H-WSe photocatalyst.. <i>Nature Communications</i> , 2022 , 13, 1256	17.4	6
436	Enhancing the Areal Capacity and Stability of CuZnSnS Anode Materials by Carbon Coating: Mechanistic and Structural Studies During Lithiation and Delithiation.. <i>ACS Omega</i> , 2022 , 7, 9152-9163	3.9	0
435	Bandgap Shrinkage and Charge Transfer in 2D Layered SnS Doped with V for Photocatalytic Efficiency Improvement. <i>Small</i> , 2021 , e2105076	11	1
434	Achieving synergistic performance through highly compacted microcrystalline rods induced in Mo doped GeTe based compounds. <i>Materials Today Physics</i> , 2021 , 100571	8	0
433	Enhancing the photovoltaic properties of SnS-Based solar cells by crystallographic orientation engineering. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 111499	6.4	0
432	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	11	1
431	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	7.1	
430	Thickness-Dependent Photocatalysis of Ultra-Thin MoS ₂ Film for Visible-Light-Driven CO ₂ Reduction. <i>Catalysts</i> , 2021 , 11, 1295	4	0
429	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	3.9	1
428	Two-Dimensional Layered NiLiP ₂ S ₆ Crystals as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Catalysts</i> , 2021 , 11, 786	4	
427	Copper Zinc Tin Sulfide Anode Materials for Lithium-Ion Batteries at Low Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8970-8979	8.3	5
426	Superior lithium-ion storage performance of hierarchical tin disulfide and carbon nanotube-carbon cloth composites. <i>Journal of Power Sources</i> , 2021 , 482, 228923	8.9	10

425	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	17.1	13
424	Microstructural intra-granular cracking in Cu ₂ ZnSnS ₄ @C thin-film anode enhanced the electrochemical performance in lithium-ion battery applications. <i>Materials Advances</i> , 2021 , 2, 5672-5685 ³³		1
423	Nanoscale redox mapping at the MoS-liquid interface. <i>Nature Communications</i> , 2021 , 12, 1321	17.4	5
422	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	7.1	3
421	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	17.1	32
420	Highly improved thermoelectric performance of BiCuTeO achieved by decreasing the oxygen content. <i>Materials Today Physics</i> , 2020 , 15, 100248	8	5
419	On the Reduction of O ₂ on Cathode Surfaces of Co ^{II} Corrin and Co ^{III} 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	3.8	2
418	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	13	29
417	Controlling the Oxidation State of the Cu Electrode and Reaction Intermediates for Electrochemical CO Reduction to Ethylene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2857-2867 ¹⁶⁴	16.4	142
416	Integrated nano-architected photocatalysts for photochemical CO reduction. <i>Nanoscale</i> , 2020 , 12, 23301-23332	7.7	30
415	Band Edge Tailoring in Few-Layer Two-Dimensional Molybdenum Sulfide/Selenide Alloys. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22893-22902	3.8	4
414	Fast growth of large-grain and continuous MoS films through a self-capping vapor-liquid-solid method. <i>Nature Communications</i> , 2020 , 11, 3682	17.4	36
413	Probing the active site in single-atom oxygen reduction catalysts via operando X-ray and electrochemical spectroscopy. <i>Nature Communications</i> , 2020 , 11, 4233	17.4	31
412	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. <i>ACS Sensors</i> , 2019 , 4, 406-412	9.2	20
411	Enhanced thermoelectric performance of BiCuTeO by excess Bi additions. <i>Ceramics International</i> , 2019 , 45, 9254-9259	5.1	6
410	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	7	12
409	Enhanced thermoelectric performance of GeTe through in situ microdomain and Ge-vacancy control. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15181-15189	13	35
408	Highly efficient nitrogen and carbon coordinated NiCo 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	13	26

407	KSCN-induced Interfacial Dipole in Black TiO for Enhanced Photocatalytic CO Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25186-25194	9.5	37
406	Enhanced Thermoelectric Performance via Oxygen Manipulation in BiCuTeO. <i>MRS Advances</i> , 2019 , 4, 499-505	0.7	1
405	Origin of Band Modulation in GeTe-Rich Ge _{1-x} Te _x Thin Film. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2619-2625	4	2
404	The dual-defective SnS monolayers: promising 2D photocatalysts for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26292-26300	3.6	13
403	Carbon-doped SnS nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018 , 9, 169	17.4	219
402	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-10	3.8	3
401	Flexible sensor for dopamine detection fabricated by the direct growth of Fe ₂ O ₃ nanoparticles on carbon cloth. <i>Applied Surface Science</i> , 2018 , 427, 387-395	6.7	30
400	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	17.1	15
399	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	17.1	17
398	Ni-Nanocluster Modified Black TiO with Dual Active Sites for Selective Photocatalytic CO Reduction. <i>Small</i> , 2018 , 14, 1702928	11	80
397	Influence of GeP precipitates on the thermoelectric properties of P-type GeTe and Ge _{0.9} P _x Sb _{0.1} Te compounds. <i>CrystEngComm</i> , 2018 , 20, 6449-6457	3.3	5
396	Multicolor Ultralow-Threshold Random Laser Assisted by Vertical-Graphene Network. <i>Advanced Optical Materials</i> , 2018 , 6, 1800382	8.1	25
395	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, 052101	3.4	6
394	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	21.8	11
393	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	8.3	11
392	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	13	14
391	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	13	83
390	High- γ -Samarium-Based Metal-Organic Framework for Gate Dielectric Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21872-21878	9.5	10

389	Enhanced hydrogen evolution reaction on hybrids of cobalt phosphide and molybdenum phosphide. <i>Royal Society Open Science</i> , 2017 , 4, 161016	3.3	13
388	Co-solvent effect on microwave-assisted Cu ₂ ZnSnS ₄ nanoparticles synthesis for thin film solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 161, 416-423	6.4	10
387	Improved Solar-Driven Photocatalytic Activity of Hybrid Graphene Quantum Dots/ZnO Nanowires: A Direct Z-Scheme Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 367-375	8.3	88
386	Photoconductivities in m-plane and c-plane ZnO epitaxial films grown by chemical vapor deposition on LiGaO ₂ substrates: a comparative study. <i>RSC Advances</i> , 2016 , 6, 86095-86100	3.7	5
385	Improving the thermoelectric performance of metastable rock-salt GeTe-rich Ge _{1-x} Sb _x Te thin films through tuning of grain orientation and vacancies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 3122-3129	1.6	3
384	Nonlinear bandgap opening behavior of BN co-doped graphene. <i>Carbon</i> , 2016 , 107, 857-864	10.4	21
383	Directly-Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. <i>ChemSusChem</i> , 2016 , 9, 370-8	8.3	40
382	Enhancement of charge collection at shorter wavelengths from alternative CdS deposition conditions for high efficiency CZTSSe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 149, 49-54	6.4	14
381	Beaded stream-like CoSe ₂ nanoneedle array for efficient hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4553-4561	13	76
380	Membrane protein assembly: two cytoplasmic phosphorylated serine sites of Vpu from HIV-1 affect oligomerization. <i>Scientific Reports</i> , 2016 , 6, 28866	4.9	2
379	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. <i>ACS Photonics</i> , 2016 , 3, 985-991	6.3	10
378	Fabrication of Cu ₂ ZnSnSe ₄ solar cells through multi-step selenization of layered metallic precursor film. <i>Thin Solid Films</i> , 2016 , 618, 42-49	2.2	8
377	A facile and green synthesis of copper zinc tin sulfide materials for thin film photovoltaics. <i>Thin Solid Films</i> , 2016 , 618, 124-129	2.2	1
376	Enhanced thermoelectric performance in a percolated bismuth sulfide composite. <i>RSC Advances</i> , 2016 , 6, 98952-98955	3.7	3
375	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. <i>Nano Energy</i> , 2016 , 30, 762-770	17.1	19
374	Thickness-Dependent Binding Energy Shift in Few-Layer MoS ₂ Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22637-46	9.5	40
373	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	6.4	8
372	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu ₂ ZnSnS ₄ solar cells. <i>Nano Energy</i> , 2015 , 16, 438-445	17.1	55

371	The effects of fluorine-contained molecules on improving the polymer solar cell by curing the anomalous S-shaped I-V curve. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6683-9	9.5	3
370	Transparent, broadband, flexible, and bifacial-operable photodetectors containing a large-area graphene-gold oxide heterojunction. <i>ACS Nano</i> , 2015 , 9, 5093-103	16.7	47
369	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 137-44	11.8	28
368	Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure. <i>CrystEngComm</i> , 2015 , 17, 3440-3445	3.3	23
367	Conducting polymer-based flexible supercapacitor. <i>Energy Science and Engineering</i> , 2015 , 3, 2-26	3.4	377
366	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. <i>Carbon</i> , 2015 , 82, 124-134	10.4	58
365	Comparison of CVD- and MBE-grown GaN Nanowires: Crystallinity, Photoluminescence, and Photoconductivity. <i>Journal of Electronic Materials</i> , 2015 , 44, 177-187	1.9	10
364	Nano-textured fluidic biochip as biological filter for selective survival of neuronal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2015-23	5.4	7
363	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	6.7	5
362	A nontoxic solvent based sol-gel Cu ₂ ZnSnS ₄ thin film for high efficiency and scalable low-cost photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15324-15330	13	47
361	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	8.3	16
360	Design for approaching Cicada-wing reflectance in low- and high-index biomimetic nanostructures. <i>ACS Nano</i> , 2015 , 9, 301-11	16.7	71
359	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, 4616-22	9.5	10
358	Production and Storage of Energy with One-Dimensional Semiconductor Nanostructures. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2014 , 39, 109-153	10.1	5
357	Complete corrosion inhibition through graphene defect passivation. <i>ACS Nano</i> , 2014 , 8, 443-8	16.7	185
356	Chloroboron subphthalocyanine/C60 planar heterojunction organic solar cell with N,N-dicarbazolyl-3,5-benzene blocking layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 122, 264-270	6.4	30
355	Highly efficient visible light photocatalytic reduction of CO ₂ to hydrocarbon fuels by Cu-nanoparticle decorated graphene oxide. <i>Nano Letters</i> , 2014 , 14, 6097-103	11.5	254
354	Surface plasmon resonance-induced color-selective Au-peapodded silica nanowire photodetectors with high photoconductive gain. <i>Nanoscale</i> , 2014 , 6, 1264-70	7.7	12

353	Nondestructive characterization of the structural quality and thickness of large-area graphene on various substrates. <i>Analytical Chemistry</i> , 2014 , 86, 7192-9	7.8	6
352	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, 8635-41	7.7	10
351	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	13	17
350	SIMS methodology for probing the fate and dispersion of catalytically active molecules. <i>International Journal of Mass Spectrometry</i> , 2014 , 370, 107-113	1.9	5
349	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	13	97
348	Cobalt-phosphate-assisted photoelectrochemical water oxidation by arrays of molybdenum-doped zinc oxide nanorods. <i>ChemSusChem</i> , 2014 , 7, 2748-54	8.3	18
347	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	6.7	1
346	Graphene-to-substrate energy transfer through out-of-plane longitudinal acoustic phonons. <i>Nano Letters</i> , 2014 , 14, 1317-23	11.5	22
345	Novel iron oxyhydroxide lepidocrocite nanosheet as ultrahigh power density anode material for asymmetric supercapacitors. <i>Small</i> , 2014 , 10, 3803-10	11	125
344	Hierarchically Porous Calcium-containing Manganese Dioxide Nanorod Bundles with Superior Photoelectrochemical Activity. <i>ChemCatChem</i> , 2014 , 6, 1684-1690	5.2	9
343	Plasmon management in index engineered 2.5D hybrid nanostructures for surface-enhanced Raman scattering. <i>NPG Asia Materials</i> , 2014 , 6, e123-e123	10.3	6
342	Photoelectrochemical activity on Ga-polar and N-polar GaN surfaces for energy conversion. <i>Optics Express</i> , 2014 , 22 Suppl 1, A21-7	3.3	21
341	Effect of copper oxide oxidation state on the polymer-based solar cell buffer layers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22445-50	9.5	30
340	Assessing structural, free-charge carrier, and phonon properties of mixed-phase epitaxial films: The case of InN. <i>Physical Review B</i> , 2014 , 90,	3.3	12
339	Surface diffusion controlled formation of high quality vertically aligned InN nanotubes. <i>Journal of Applied Physics</i> , 2014 , 116, 124301	2.5	7
338	Excitons and biexcitons in InGaN quantum dot like localization centers. <i>Nanotechnology</i> , 2014 , 25, 495703,4	3.4	5
337	Optical properties of plasma-assisted molecular beam epitaxy grown InN/sapphire. <i>Optical Materials</i> , 2014 , 37, 1-4	3.3	6
336	Growth of EGa ₂ O ₃ and GaN nanowires on GaN for photoelectrochemical hydrogen generation. <i>Nanotechnology</i> , 2013 , 24, 055401	3.4	23

335	Suppressed piezoelectric polarization in single InGaN/GaN heterostructure nanowires. <i>Physical Review B</i> , 2013 , 88,	3.3	8
334	Resistance memory device of La _{0.7} Sr _{0.3} MnO ₃ on Si nanotips template. <i>Applied Physics Letters</i> , 2013 , 103, 211606	3.4	6
333	High-performance pyrolyzed iron corrole as a potential non-precious metal catalyst for PEMFCs. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14692	13	23
332	Using optical anisotropy as a quality factor to rapidly characterize structural qualities of large-area graphene films. <i>Analytical Chemistry</i> , 2013 , 85, 1605-14	7.8	8
331	Band gap engineering of chemical vapor deposited graphene by in situ BN doping. <i>ACS Nano</i> , 2013 , 7, 1333-41	16.7	222
330	Graphene oxide as a promising photocatalyst for CO ₂ to methanol conversion. <i>Nanoscale</i> , 2013 , 5, 262-87.7	346	
329	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. <i>Carbon</i> , 2013 , 63, 397-403	10.4	43
328	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	8.9	56
327	Improved corrosion resistance of GaN electrodes in NaCl electrolyte for photoelectrochemical hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 14433-14439	6.7	13
326	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	42.2	227
325	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	3.4	42
324	Atomistic nucleation sites of Pt nanoparticles on N-doped carbon nanotubes. <i>Nanoscale</i> , 2013 , 5, 6812-87.7	27	
323	High k nanophase zinc oxide on biomimetic silicon nanotip array as supercapacitors. <i>Nano Letters</i> , 2013 , 13, 1422-8	11.5	23
322	Anomalous quantum efficiency for photoconduction and its power dependence in metal oxide semiconductor nanowires. <i>Nanoscale</i> , 2013 , 5, 6867-73	7.7	21
321	Photoconduction efficiencies of metal oxide semiconductor nanowires: The material's inherent properties. <i>Applied Physics Letters</i> , 2013 , 103, 223107	3.4	16
320	Nucleation of single GaN nanorods with diameters smaller than 35 nm by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013 , 103, 203108	3.4	5
319	Surface plasmon-enhanced gas sensing in single gold-peapodded silica nanowires. <i>NPG Asia Materials</i> , 2013 , 5, e49-e49	10.3	16
318	Effect of substrate temperature on orientation of subphthalocyanine molecule in organic photovoltaic cells. <i>Thin Solid Films</i> , 2012 , 520, 2289-2292	2.2	21

317	Enhancements in device efficiency of poly(3-hexylthiophene): [6,6]-phenyl C61-butyric acid methyl ester based solar cells with incorporation of bathocuproine. <i>Thin Solid Films</i> , 2012 , 520, 5413-5416	2.2	4
316	Polarized emission and excitonic fine structure energies of InGaN quantum dots. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1553-1555	2.8	1
315	Gold nanoparticle-modulated conductivity in gold peapodded silica nanowires. <i>Nanoscale</i> , 2012 , 4, 3660-3667	4.7	8
314	Patterned growth of nanocrystalline silicon thin films through magnesiothermic reduction of soda lime glass. <i>Green Chemistry</i> , 2012 , 14, 896	10	18
313	Polarized and diameter-dependent Raman scattering from individual aluminum nitride nanowires: The antenna and cavity effects. <i>Applied Physics Letters</i> , 2012 , 101, 121902	3.4	13
312	Room-temperature heteroepitaxy of single-phase Al _{1-x} In _x N films with full composition range on isostructural wurtzite templates. <i>Thin Solid Films</i> , 2012 , 524, 113-120	2.2	19
311	Dynamic characteristics of the exciton and the biexciton in a single InGaN quantum dot. <i>Applied Physics Letters</i> , 2012 , 101, 061910	3.4	16
310	Photochemically active reduced graphene oxide with controllable oxidation level. <i>RSC Advances</i> , 2012 , 2, 11258	3.7	19
309	Effect of substrate bias on the promotion of nanocrystalline silicon growth from He-diluted SiH ₄ plasma at low temperature. <i>Journal of Materials Research</i> , 2012 , 27, 1303-1313	2.5	10
308	Vitalizing fuel cells with vitamins: pyrolyzed vitamin B12 as a non-precious catalyst for enhanced oxygen reduction reaction of polymer electrolyte fuel cells. <i>Energy and Environmental Science</i> , 2012 , 5, 5305-5314	35.4	104
307	Giant Positive Magnetoresistance in Ferromagnetic Manganites/Silicon Nanotips Diode. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21132-21137	3.8	9
306	High stability of oxidation of methanol catalyzed by Pt supported by oxygen-incorporated bamboo-shaped CNTs grown directly on carbon cloth. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10663-10670	6.7	5
305	Eco-friendly plasmonic sensors: using the photothermal effect to prepare metal nanoparticle-containing test papers for highly sensitive colorimetric detection. <i>Analytical Chemistry</i> , 2012 , 84, 5140-5	7.8	65
304	Preparation of non-precious metal catalysts for PEMFC cathode from pyrolyzed vitamin B12. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13755-13762	6.7	24
303	Graphene nanosheet/CNT hybrid nanostructure electrode for a proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18989-18995	6.7	28
302	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	3.5	57
301	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16251-16258	3.8	43
300	Enhancing efficiency with fluorinated interlayers in small molecule organic solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22899		18

299	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. <i>Nanoscale</i> , 2012 , 4, 6515-9	7.7	106
298	Stacking Orientation Mediation of Pentacene and Derivatives for High Open-Circuit Voltage Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1079-83	6.4	11
297	Plasmonic Ag@Ag ₃ (PO ₄) _{1.5} nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 8917	35.4	97
296	High-cell-voltage supercapacitor of carbon nanotube/carbon cloth operating in neutral aqueous solution. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3383		112
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