

Subodh Mhaisalkar

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522
papers

42,051
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h-index

192
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552
ext. papers

46,640
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
522	Long-range balanced electron- and hole-transport lengths in organic-inorganic CH ₃ NH ₃ PbI ₃ . <i>Science</i> , 2013 , 342, 344-7	33.3	5214
521	Low-temperature solution-processed wavelength-tunable perovskites for lasing. <i>Nature Materials</i> , 2014 , 13, 476-80	27	2291
520	Synthesis and crystal chemistry of the hybrid perovskite (CH ₃ NH ₃)PbI ₃ for solid-state sensitised solar cell applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5628	13	1972
519	Perovskite Materials for Light-Emitting Diodes and Lasers. <i>Advanced Materials</i> , 2016 , 28, 6804-34	24	946
518	The origin of high efficiency in low-temperature solution-processable bilayer organometal halide hybrid solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 399-407	35.4	838
517	High efficiency solid-state sensitized solar cell-based on submicrometer rutile TiO ₂ nanorod and CH ₃ NH ₃ PbI ₃ perovskite sensitizer. <i>Nano Letters</i> , 2013 , 13, 2412-7	11.5	825
516	Lead-free halide perovskite solar cells with high photocurrents realized through vacancy modulation. <i>Advanced Materials</i> , 2014 , 26, 7122-7	24	737
515	Reduced graphene oxide conjugated Cu ₂ O nanowire mesocrystals for high-performance NO ₂ gas sensor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4905-17	16.4	627
514	Advancements in perovskite solar cells: photophysics behind the photovoltaics. <i>Energy and Environmental Science</i> , 2014 , 7, 2518-2534	35.4	605
513	Lead-free germanium iodide perovskite materials for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23829-23832	13	569
512	Formamidinium-Containing Metal-Halide: An Alternative Material for Near-IR Absorption Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16458-16462	3.8	554
511	Flexible, low-temperature, solution processed ZnO-based perovskite solid state solar cells. <i>Chemical Communications</i> , 2013 , 49, 11089-91	5.8	481
510	Synthesis of porous NiO nanocrystals with controllable surface area and their application as supercapacitor electrodes. <i>Nano Research</i> , 2010 , 3, 643-652	10	472
509	Inorganic Halide Perovskites for Efficient Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4360-4	6.4	413
508	Band-gap tuning of lead halide perovskites using a sequential deposition process. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9221-9225	13	398
507	Perovskites for Next-Generation Optical Sources. <i>Chemical Reviews</i> , 2019 , 119, 7444-7477	68.1	391
506	Laminated carbon nanotube networks for metal electrode-free efficient perovskite solar cells. <i>ACS Nano</i> , 2014 , 8, 6797-804	16.7	371

505	MS2 (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics. <i>Advanced Functional Materials</i> , 2014 , 24, 2155-2162	15.6	362
504	Ultrathin films on copper(I) oxide water splitting photocathodes: a study on performance and stability. <i>Energy and Environmental Science</i> , 2012 , 5, 8673	35.4	354
503	In situ growth of NiCo(2)S(4) nanosheets on graphene for high-performance supercapacitors. <i>Chemical Communications</i> , 2013 , 49, 10178-80	5.8	347
502	Lead-Free MA ₂ CuCl(x)Br(4-x) Hybrid Perovskites. <i>Inorganic Chemistry</i> , 2016 , 55, 1044-52	5.1	345
501	A simple 3,4-ethylenedioxythiophene based hole-transporting material for perovskite solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4085-8	16.4	345
500	Formamidinium tin-based perovskite with low E _g for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14996-15000	13	338
499	Solid-State Gas Sensors: A Review. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 3690-3704	3.9	312
498	Current progress and future perspectives for organic/inorganic perovskite solar cells. <i>Materials Today</i> , 2014 , 17, 16-23	21.8	293
497	Surface Recombination and Collection Efficiency in Perovskite Solar Cells from Impedance Analysis. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 5105-5113	6.4	284
496	Impact of Anionic Br Substitution on Open Circuit Voltage in Lead Free Perovskite (CsSnI _{3-x} Br _x) Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1763-1767	3.8	263
495	Enhancement in the performance of ultrathin hematite photoanode for water splitting by an oxide underlayer. <i>Advanced Materials</i> , 2012 , 24, 2699-702	24	257
494	Synthesis and electrochemical properties of electrospun V ₂ O ₅ nanofibers as supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6720		255
493	Fe ₂ O ₃ nanotubes-reduced graphene oxide composites as synergistic electrochemical capacitor materials. <i>Nanoscale</i> , 2012 , 4, 2958-61	7.7	237
492	Electrospun Fe ₂ O ₃ nanorods as a stable, high capacity anode material for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12198		237
491	Electrospun composite nanofibers and their multifaceted applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12953		235
490	Perovskite Solar Cells: Beyond Methylammonium Lead Iodide. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 898-907	6.4	234
489	A combined single crystal neutron/X-ray diffraction and solid-state nuclear magnetic resonance study of the hybrid perovskites CH ₃ NH ₃ PbX ₃ (X = I, Br and Cl). <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9298-9307	13	216
488	Discerning the Surface and Bulk Recombination Kinetics of Organic/Inorganic Halide Perovskite Single Crystals. <i>Advanced Energy Materials</i> , 2016 , 6, 1600551	21.8	214

487	Perovskite-Hematite Tandem Cells for Efficient Overall Solar Driven Water Splitting. <i>Nano Letters</i> , 2015 , 15, 3833-9	11.5	211
486	Rb as an Alternative Cation for Templating Inorganic Lead-Free Perovskites for Solution Processed Photovoltaics. <i>Chemistry of Materials</i> , 2016 , 28, 7496-7504	9.6	203
485	Nanostructuring Mixed-Dimensional Perovskites: A Route Toward Tunable, Efficient Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 3653-61	24	201
484	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. <i>Nature Communications</i> , 2017 , 8, 14350	17.4	196
483	Charge Accumulation and Hysteresis in Perovskite-Based Solar Cells: An Electro-Optical Analysis. <i>Advanced Energy Materials</i> , 2015 , 5, 1500829	21.8	196
482	Hydrothermal Synthesis of High Electron Mobility Zn-doped SnO ₂ Nanoflowers as Photoanode Material for Efficient Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 3938-3945	9.6	190
481	A Photonic Crystal Laser from Solution Based Organo-Lead Iodide Perovskite Thin Films. <i>ACS Nano</i> , 2016 , 10, 3959-67	16.7	188
480	A large area (70 cm ²) monolithic perovskite solar module with a high efficiency and stability. <i>Energy and Environmental Science</i> , 2016 , 9, 3687-3692	35.4	187
479	Hybrid supercapacitor with nano-TiP ₂ O ₇ as intercalation electrode. <i>Journal of Power Sources</i> , 2011 , 196, 8850-8854	8.9	185
478	Novel hollow mesoporous 1D TiO ₂ nanofibers as photovoltaic and photocatalytic materials. <i>Nanoscale</i> , 2012 , 4, 1707-16	7.7	181
477	Cobalt Oxide Nanowall Arrays on Reduced Graphene Oxide Sheets with Controlled Phase, Grain Size, and Porosity for Li-Ion Battery Electrodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8400-8406	3.8	181
476	High Aspect Ratio Electrospun CuO Nanofibers as Anode Material for Lithium-Ion Batteries with Superior Cycleability. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18087-18092	3.8	175
475	Solution-Processed Tin-Based Perovskite for Near-Infrared Lasing. <i>Advanced Materials</i> , 2016 , 28, 8191-8196	11.4	174
474	Non-Volatile Organic Memory Applications Enabled by In Situ Synthesis of Gold Nanoparticles in a Self-Assembled Block Copolymer. <i>Advanced Materials</i> , 2008 , 20, 2325-2331	24	173
473	Electrospun TiO ₂ /Graphene Composite Nanofibers as a Highly Durable Insertion Anode for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14780-14788	3.8	171
472	Interfacial Electron Transfer Barrier at Compact TiO ₂ /CH ₃ NH ₃ PbI ₃ Heterojunction. <i>Small</i> , 2015 , 11, 3606-13	11	168
471	Printable photo-supercapacitor using single-walled carbon nanotubes. <i>Energy and Environmental Science</i> , 2011 , 4, 413-416	35.4	167
470	Rutile TiO ₂ -based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9251	13	166

469	High efficiency electrospun TiO ₂ nanofiber based hybrid organic-inorganic perovskite solar cell. <i>Nanoscale</i> , 2014 , 6, 1675-9	7.7	163
468	Novel hole transporting materials based on triptycene core for high efficiency mesoscopic perovskite solar cells. <i>Chemical Science</i> , 2014 , 5, 2702-2709	9.4	160
467	Investigating the multiple roles of polyvinylpyrrolidone for a general methodology of oxide encapsulation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9099-110	16.4	159
466	A swivel-cruciform thiophene based hole-transporting material for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6305-6309	13	156
465	Polaron self-localization in white-light emitting hybrid perovskites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2771-2780	7.1	155
464	Cobalt Sulfide Nanosheet/Graphene/Carbon Nanotube Nanocomposites as Flexible Electrodes for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2014 , 126, 12802-12807	3.6	149
463	Morphology-Independent Stable White-Light Emission from Self-Assembled Two-Dimensional Perovskites Driven by Strong Exciton-Phonon Coupling to the Organic Framework. <i>Chemistry of Materials</i> , 2017 , 29, 3947-3953	9.6	146
462	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. <i>Joule</i> , 2020 , 4, 1035-1053	10.8	145
461	Rational Design: A High-Throughput Computational Screening and Experimental Validation Methodology for Lead-Free and Emergent Hybrid Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 837-845	20.1	142
460	Charging phenomena in pentacene-gold nanoparticle memory device. <i>Applied Physics Letters</i> , 2007 , 90, 042906	3.4	137
459	Cobalt sulfide nanosheet/graphene/carbon nanotube nanocomposites as flexible electrodes for hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12594-9	16.4	131
458	Highly spin-polarized carrier dynamics and ultralarge photoinduced magnetization in CH ₃ NH ₃ PbI ₃ perovskite thin films. <i>Nano Letters</i> , 2015 , 15, 1553-8	11.5	130
457	Computational Study of Halide Perovskite-Derived A ₂ BX ₆ Inorganic Compounds: Chemical Trends in Electronic Structure and Structural Stability. <i>Chemistry of Materials</i> , 2017 , 29, 7740-7749	9.6	128
456	DNA sensing by field-effect transistors based on networks of carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14427-32	16.4	128
455	Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. <i>ACS Nano</i> , 2014 , 8, 10597-605	16.7	127
454	Synthesis and characterization of CuO nanofibers, and investigation for its suitability as blocking layer in ZnO NPs based dye sensitized solar cell and as photocatalyst in organic dye degradation. <i>Journal of Solid State Chemistry</i> , 2012 , 186, 261-267	3.3	127
453	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. <i>Nature Communications</i> , 2017 , 8, 15198	17.4	124
452	Towards printable organic thin film transistor based flash memory devices. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5203		124

451	Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2122-2128	13	123
450	Hole-transporting small molecules based on thiophene cores for high efficiency perovskite solar cells. <i>ChemSusChem</i> , 2014 , 7, 3420-5	8.3	122
449	Spectral Features and Charge Dynamics of Lead Halide Perovskites: Origins and Interpretations. <i>Accounts of Chemical Research</i> , 2016 , 49, 294-302	24.3	116
448	Self-assembled hierarchical nanostructured perovskites enable highly efficient LEDs via an energy cascade. <i>Energy and Environmental Science</i> , 2018 , 11, 1770-1778	35.4	113
447	Solution processed transition metal sulfides: application as counter electrodes in dye sensitized solar cells (DSCs). <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 19307-9	3.6	113
446	Interfacial Charge Transfer Anisotropy in Polycrystalline Lead Iodide Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1396-402	6.4	112
445	Electrospun polyaniline nanofibers web electrodes for supercapacitors. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 1660-1668	2.9	111
444	Transparent, conducting Nb:SnO ₂ for host-guest photoelectrochemistry. <i>Nano Letters</i> , 2012 , 12, 5431-5	11.5	110
443	Over 20% Efficient CIGS/Perovskite Tandem Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 807-812	20.1	109
442	Uncovering loss mechanisms in silver nanoparticle-blended plasmonic organic solar cells. <i>Nature Communications</i> , 2013 , 4, 2004	17.4	105
441	Highly stable, luminescent core-shell type methylammonium-octylammonium lead bromide layered perovskite nanoparticles. <i>Chemical Communications</i> , 2016 , 52, 7118-21	5.8	105
440	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 2439-45	24.5	103
439	Enhanced organic ferroelectric field effect transistor characteristics with strained poly(vinylidene fluoride-trifluoroethylene) dielectric. <i>Organic Electronics</i> , 2008 , 9, 1087-1092	3.5	100
438	Bifunctional carbon nanotube networks for supercapacitors. <i>Applied Physics Letters</i> , 2007 , 90, 264104	3.4	95
437	Particle Size Effect of Silver Nanoparticles Decorated Single Walled Carbon Nanotube Electrode for Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A179	3.9	92
436	Ionotronic Halide Perovskite Drift-Diffusive Synapses for Low-Power Neuromorphic Computation. <i>Advanced Materials</i> , 2018 , 30, e1805454	24	91
435	Effect of Organic and Inorganic Passivation in Quantum-Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1519-25	6.4	90
434	Critical parameters in the pegylation of gold nanoshells for biomedical applications: an in vitro macrophage study. <i>Journal of Drug Targeting</i> , 2009 , 17, 181-93	5.4	90

433	Micellar poly(styrene- <i>b</i> -4-vinylpyridine)-nanoparticle hybrid system for non-volatile organic transistor memory. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7354		90
432	Electrical Detection of Femtomolar DNA via Gold-Nanoparticle Enhancement in Carbon-Nanotube-Network Field-Effect Transistors. <i>Advanced Materials</i> , 2008 , 20, 2389-2393	24	90
431	Stress-induced structural changes in electrospun polyvinylidene difluoride nanofibers collected using a modified rotating disk. <i>Polymer</i> , 2008 , 49, 4196-4203	3.9	87
430	Limitations of CsBiI ₃ as Lead-Free Photovoltaic Absorber Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35000-35007	9.5	85
429	Benzyl Alcohol-Treated CH ₃ NH ₃ PbBr Nanocrystals Exhibiting High Luminescence, Stability, and Ultralow Amplified Spontaneous Emission Thresholds. <i>Nano Letters</i> , 2017 , 17, 7424-7432	11.5	85
428	Hollow nanospheres constructed by CoS ₂ nanosheets with a nitrogen-doped-carbon coating for energy-storage and photocatalysis. <i>ChemSusChem</i> , 2014 , 7, 2212-20	8.3	84
427	Effect of Cation Composition on the Mechanical Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702116	21.8	84
426	Synthesis of multimodal porous ZnCo ₂ O ₄ and its electrochemical properties as an anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 294, 112-119	8.9	83
425	The effect of dielectric constant on device mobilities of high-performance, flexible organic field effect transistors. <i>Applied Physics Letters</i> , 2009 , 94, 263303	3.4	83
424	Efficient multispectral photodetection using Mn doped ZnO nanowires. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9678		82
423	Controlled synthesis of BiOCl hierarchical self-assemblies with highly efficient photocatalytic properties. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 258-68	4.5	81
422	Poor Photovoltaic Performance of Cs ₃ Bi ₂ I ₉ : An Insight through First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17062-17067	3.8	81
421	Unravelling the Effects of Cl Addition in Single Step CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 2309-2314	9.6	81
420	Nanostructured cathode materials: a key for better performance in Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11040		81
419	Hybrid graphene-metal nanoparticle systems: electronic properties and gas interaction. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15593		81
418	Importance of Functional Groups in Cross-Linking Methoxysilane Additives for High-Efficiency and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2192-2200	20.1	80
417	Silver nanoparticle-decorated carbon nanotubes as bifunctional gas-diffusion electrodes for zinc-air batteries. <i>Journal of Power Sources</i> , 2010 , 195, 4350-4355	8.9	79
416	Tunable room-temperature spin-selective optical Stark effect in solution-processed layered halide perovskites. <i>Science Advances</i> , 2016 , 2, e1600477	14.3	78

4 ¹⁵	Facile photochemical synthesis of graphene-pt nanoparticle composite for counter electrode in dye sensitized solar cell. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3447-52	9.5	78
4 ¹⁴	In situ observation of electromigration-induced void migration in dual-damascene Cu interconnect structures. <i>Applied Physics Letters</i> , 2004 , 85, 2502-2504	3.4	78
4 ¹³	Crown Ethers Enable Room-Temperature Synthesis of CsPbBr ₃ Quantum Dots for Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2018 , 3, 526-531	20.1	77
4 ¹²	Differentiation of Gas Molecules Using Flexible and All-Carbon Nanotube Devices. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 650-653	3.8	77
4 ¹¹	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 6352-60	7.7	76
4 ¹⁰	Controlled growth of hematite (Fe ₂ O ₃) nanorod array on fluorine doped tin oxide: Synthesis and photoelectrochemical properties. <i>Electrochemistry Communications</i> , 2011 , 13, 951-954	5.1	76
4 ⁰⁹	Efficient and Ambient-Air-Stable Solar Cell with Highly Oriented 2D@3D Perovskites. <i>Advanced Functional Materials</i> , 2018 , 28, 1801654	15.6	76
4 ⁰⁸	Size- and shape-controlled synthesis of ZnIn ₂ S ₄ nanocrystals with high photocatalytic performance. <i>CrystEngComm</i> , 2013 , 15, 1922	3.3	74
4 ⁰⁷	Low threshold and efficient multiple exciton generation in halide perovskite nanocrystals. <i>Nature Communications</i> , 2018 , 9, 4197	17.4	74
4 ⁰⁶	Enhanced Exciton and Photon Confinement in Ruddlesden-Popper Perovskite Microplatelets for Highly Stable Low-Threshold Polarized Lasing. <i>Advanced Materials</i> , 2018 , 30, e1707235	24	73
4 ⁰⁵	Polypyrrole nanorod networks/carbon nanoparticles composite counter electrodes for high-efficiency dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 397-404	9.5	73
4 ⁰⁴	A selective co-sensitization approach to increase photon conversion efficiency and electron lifetime in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 16182-6	3.6	72
4 ⁰³	Highly efficient Cs-based perovskite light-emitting diodes enabled by energy funnelling. <i>Chemical Communications</i> , 2017 , 53, 12004-12007	5.8	71
4 ⁰²	Spinel CoO nanomaterials for efficient and stable large area carbon-based printed perovskite solar cells. <i>Nanoscale</i> , 2018 , 10, 2341-2350	7.7	70
4 ⁰¹	Energy level alignment at the methylammonium lead iodide/copper phthalocyanine interface. <i>APL Materials</i> , 2014 , 2, 081512	5.7	70
4 ⁰⁰	Incorporation of Cl into sequentially deposited lead halide perovskite films for highly efficient mesoporous solar cells. <i>Nanoscale</i> , 2014 , 6, 13854-60	7.7	70
399	Multidimensional Perovskites: A Mixed Cation Approach Towards Ambient Stable and Tunable Perovskite Photovoltaics. <i>ChemSusChem</i> , 2016 , 9, 2541-2558	8.3	69
398	Facile fabrication of polypyrrole/functionalized multiwalled carbon nanotubes composite as counter electrodes in low-cost dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 223, 97-102	4.7	69

397	Facile solution deposition of ZnIn ₂ S ₄ nanosheet films on FTO substrates for photoelectric application. <i>Nanoscale</i> , 2011 , 3, 2602-8	7.7	69
396	One-Step Inkjet Printed Perovskite in Air for Efficient Light Harvesting. <i>Solar Rrl</i> , 2018 , 2, 1700217	7.1	68
395	Electrospun conductive polyaniline/poly(lactic acid) composite nanofibers as counter electrodes for rigid and flexible dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 652-657	3.7	68
394	Fill Factor Losses in Cu ₂ ZnSn(S _x Se _{1-x}) ₄ Solar Cells: Insights from Physical and Electrical Characterization of Devices and Exfoliated Films. <i>Advanced Energy Materials</i> , 2016 , 6, 1501609	21.8	67
393	High-Energy Density Asymmetric Supercapacitor Based on Electrospun Vanadium Pentoxide and Polyaniline Nanofibers in Aqueous Electrolyte. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1481-A1488	3.9	66
392	Effect of the Ionic Conductivity on the Performance of Polyelectrolyte-Based Supercapacitors. <i>Advanced Functional Materials</i> , 2010 , 20, 4344-4350	15.6	66
391	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. <i>Chemistry of Materials</i> , 2019 , 31, 9003-9011	9.6	65
390	Ultrafine Gold Nanowire Networks as Plasmonic Antennae in Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6453-6458	3.8	65
389	A facile route to vertically aligned electrospun SnO ₂ nanowires on a transparent conducting oxide substrate for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2166-2172		64
388	Synthesis of contiguous silica-gold core-shell structures: critical parameters and processes. <i>Langmuir</i> , 2008 , 24, 5109-12	4	64
387	Effects of dissolved nitrogen in improving barrier properties of ruthenium. <i>Applied Physics Letters</i> , 2006 , 88, 044101	3.4	63
386	A Simple 3,4-Ethylenedioxythiophene Based Hole-Transporting Material for Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2014 , 126, 4169-4172	3.6	61
385	Loading of mesoporous titania films by CH ₃ NH ₃ PbI ₃ perovskite, single step vs. sequential deposition. <i>Chemical Communications</i> , 2015 , 51, 4603-6	5.8	61
384	Selective sensing of hydrogen sulphide using silver nanoparticle decorated carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2009 , 138, 189-192	8.5	60
383	Broadband-Emitting 2 D Hybrid Organic-Inorganic Perovskite Based on Cyclohexane-bis(methylamonium) Cation. <i>ChemSusChem</i> , 2017 , 10, 3765-3772	8.3	59
382	Synthesis of low band gap [1,2,5]-thiadiazolo[3,4-g]quinoxaline and pyrazino[2,3-g]quinoxaline derivatives by selective reduction of benzo[1,2-c;4,5-c']bis[1,2,5]thiadiazole. <i>Organic Letters</i> , 2011 , 13, 46-9	6.2	59
381	An organic field effect transistor as a selective NO _x sensor operated at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 445-450	8.5	59
380	Synthesis of gold nanoshells based on the depositionprecipitation process 2008 , 41, 23-36		59

379	Microstructure, joint strength and failure mechanisms of SnPb and Pb-free solders in BGA packages. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2002 , 25, 185-192		59
378	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. <i>Nature Communications</i> , 2019 , 10, 484	17.4	58
377	Si photocathode with Ag-supported dendritic Cu catalyst for CO ₂ reduction. <i>Energy and Environmental Science</i> , 2019 , 12, 1068-1077	35.4	58
376	Controlled Synthesis of Sb Nanostructures and Their Conversion to CoSb ₃ Nanoparticle Chains for Li-Ion Battery Electrodes. <i>Chemistry of Materials</i> , 2010 , 22, 5333-5339	9.6	57
375	Designing Efficient Energy Funneling Kinetics in Ruddlesden-Popper Perovskites for High-Performance Light-Emitting Diodes. <i>Advanced Materials</i> , 2018 , 30, e1800818	24	57
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