Joe George Shapter

List of Publications by Year
in descending order

308 papers	11,883 citations	30047 54 h-index	40954 93 g-index
321 all docs	321 docs citations	321 times ranked	15959 citing authors

#	Article	IF	Citations
1	Poly(thiourea triethylene glycol) as a multifunctional binder for enhanced performance in lithium-sulfur batteries. Green Energy and Environment, 2022, 7, 1206-1216.	4.7	10
2	Elemental 2D Materials: Solutionâ€Processed Synthesis and Applications in Electrochemical Ammonia Production. Advanced Functional Materials, 2022, 32, 2107280.	7.8	20
3	Highly adhesive and disposable inorganic barrier films: made from 2D silicate nanosheets and water. Journal of Materials Chemistry A, 2022, 10, 1956-1964.	5.2	1
4	High-Resolution R2R-Compatible Printing of Carbon Nanotube Conductive Patterns Enabled by Cellulose Nanocrystals. ACS Applied Nano Materials, 2022, 5, 1574-1587.	2.4	4
5	A bright future for engineering piezoelectric 2D crystals. Chemical Society Reviews, 2022, 51, 650-671.	18.7	43
6	Green ammonia synthesis using CeO₂/RuO₂ nanolayers on vertical graphene catalyst via electrochemical route in alkaline electrolyte. Nanoscale, 2022, 14, 1395-1408.	2.8	11
7	Plasmaâ€Induced Nanocrystalline Domain Engineering and Surface Passivation in Mesoporous Chalcogenide Semiconductor Thin Films. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
8	Heterointerface optimization in a covalent organic framework-on-MXene for high-performance capacitive deionization of oxygenated saline water. Materials Horizons, 2022, 9, 1708-1716.	6.4	82
9	Exfoliated 2D Antimoneneâ€Based Structures for Lightâ€Harvesting Photoactive Layer of Highly Stable Solar Cells. Small Structures, 2022, 3, .	6.9	1
10	Sulfur-Functionalized Titanium Carbide Ti₃C₂T_x (MXene) Nanosheets Modified Light Absorbers for Ambient Fabrication of Sb₂S₃ Solar Cells. ACS Applied Nano Materials, 2022, 5, 12107-12116.	2.4	7
11	Ti3C2 MXenes-derived NaTi2(PO4)3/MXene nanohybrid for fast and efficient hybrid capacitive deionization performance. Chemical Engineering Journal, 2021, 407, 127148.	6.6	140
12	Recent progress of advanced anode materials of lithium-ion batteries. Journal of Energy Chemistry, 2021, 57, 451-468.	7.1	245
13	Nanoscale Patterning of Carbon Nanotubes: Techniques, Applications, and Future. Advanced Science, 2021, 8, 2001778.	5.6	48
14	Sorghum biomass-derived porous carbon electrodes for capacitive deionization and energy storage. Microporous and Mesoporous Materials, 2021, 312, 110757.	2.2	63
15	Ambient Fabrication of Organicâ€“Inorganic Hybrid Perovskite Solar Cells. Small Methods, 2021, 5, e2000744.	4.6	63
16	Spatially isolated redox processes enabled by ambipolar charge transport in multi-walled carbon nanotube mats. Materials Horizons, 2021, 8, 1304-1313.	6.4	3
17	High-resolution and scalable printing of highly conductive PEDOT:PSS for printable electronics. Journal of Materials Chemistry C, 2021, 9, 14161-14174.	2.7	17
18	Thickness/morphology of functional material patterned by topographical discontinuous dewetting. Nano Select, 2021, 2, 1723-1740.	1.9	4

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19	Interfacial piezoelectric polarization locking in printable Ti3C2Tx MXene-fluoropolymer composites. Nature Communications, 2021, 12, 3171.	5.8	57
20	Light-conversion phosphor nanoarchitectonics for improved light harvesting in sensitized solar cells. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 47, 100404.	5.6	29
21	A Comparative Study on the Role of Polyvinylpyrrolidone Molecular Weight on the Functionalization of Various Carbon Nanotubes and Their Composites. Polymers, 2021, 13, 2447.	2.0	7
22	1Dâ€2D Synergistic MXeneâ€Nanotubes Hybrids for Efficient Perovskite Solar Cells. Small, 2021, 17, e2101925.	5.2	34
23	Highly Dispersed Ru Nanoparticles on Boronâ€Doped Ti₃C₂T_x (MXene) Nanosheets for Synergistic Enhancement of Electrocatalytic Hydrogen Evolution. Small, 2021, 17, e2102218.	5.2	83
24	Cesium-doped Ti3C2Tx MXene for efficient and thermally stable perovskite solar cells. Cell Reports Physical Science, 2021, 2, 100598.	2.8	29
25	Highly efficient photocatalytic degradation of different hazardous contaminants by CaIn2S4-Ti3C2Tx Schottky heterojunction: An experimental and mechanism study. Chemical Engineering Journal, 2021, 421, 127838.	6.6	138
26	Emerging 2D Layered Materials for Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902253.	10.2	79
27	Printed recyclable and self-poled polymer piezoelectric generators through single-walled carbon nanotube templating. Energy and Environmental Science, 2020, 13, 868-883.	15.6	60
28	Preparation of Hybrid Molybdenum Disulfide/Single Wall Carbon Nanotubeâ€“n-Type Silicon Solar Cells. Applied Sciences (Switzerland), 2020, 10, 287.	1.3	1
29	The Use of Gravity Filtration of Carbon Nanotubes from Suspension to Produce Films with Low Roughness for Carbon Nanotube/Silicon Heterojunction Solar Device Application. Applied Sciences (Switzerland), 2020, 10, 6415.	1.3	5
30	Discontinuous Dewetting, Template-Guided Self-Assembly, and Liquid Bridge-Transfer Printing of High-Resolution Single-Walled Carbon Nanotube Lines for Next-Generation Electrodes and Interconnects. ACS Applied Nano Materials, 2020, 3, 8148-8160.	2.4	12
31	High-Performance Capacitive Deionization by Lignocellulose-Derived Eco-Friendly Porous Carbon Materials. Bulletin of the Chemical Society of Japan, 2020, 93, 1014-1019.	2.0	25
32	Few-layer black phosphorus and boron-doped graphene based heteroelectrocatalyst for enhanced hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 20446-20452.	5.2	32
33	High Throughput Screening of Millions of van der Waals Heterostructures for Superlubricant Applications. Advanced Theory and Simulations, 2020, 3, 2000029.	1.3	11
34	Nitrogen-doped phosphorene for electrocatalytic ammonia synthesis. Journal of Materials Chemistry A, 2020, 8, 15875-15883.	5.2	88
35	Efficiency and stability enhancement of perovskite solar cells using reduced graphene oxide derived from earth-abundant natural graphite. RSC Advances, 2020, 10, 9133-9139.	1.7	33
36	Surface oxidized two-dimensional antimonene nanosheets for electrochemical ammonia synthesis under ambient conditions. Journal of Materials Chemistry A, 2020, 8, 4735-4739.	5.2	57

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37	Multifunctional nanostructured materials for next generation photovoltaics. Nano Energy, 2020, 70, 104480.	8.2	52
38	Ti₃C₂T_x (MXene)â€Silicon Heterojunction for Efficient Photovoltaic Cells. Advanced Energy Materials, 2019, 9, 1901063.	10.2	68
39	Matrix metalloproteinase-2-targeted superparamagnetic Fe₃O₄-PEG-G5-MMP2@Ce6 nanoprobes for dual-mode imaging and photodynamic therapy. Nanoscale, 2019, 11, 18426-18435.	2.8	33
40	Broadening of van Hove Singularities Measured by Photoemission Spectroscopy of Single- and Mixed-Chirality Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2019, 123, 26683-26694.	1.5	4
41	New developments in composites, copolymer technologies and processing techniques for flexible fluoropolymer piezoelectric generators for efficient energy harvesting. Energy and Environmental Science, 2019, 12, 1143-1176.	15.6	187
42	Effect of Silver Concentration towards Formationof AgPt Nanofernfilms as SERS Substrates. Materials Science Forum, 2019, 948, 231-236.	0.3	2
43	A Portable and Efficient Solarâ€Rechargeable Battery with Ultrafast Photoâ€Charge/Discharge Rate. Advanced Energy Materials, 2019, 9, 1900872.	10.2	49
44	Microwave-assisted synthesis of black phosphorus quantum dots: efficient electrocatalyst for oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 12974-12978.	5.2	56
45	Origin of Performance Enhancement in TiO₂â€Carbon Nanotube Composite Perovskite Solar Cells. Small Methods, 2019, 3, 1900164.	4.6	45
46	Recent Advances in Applications of Sorted Singleâ€Walled Carbon Nanotubes. Advanced Functional Materials, 2019, 29, 1902273.	7.8	67
47	Role of Molecular Weight in Polymer Wrapping and Dispersion of MWNT in a PVDF Matrix. Polymers, 2019, 11, 162.	2.0	6
48	Electrically Sorted Single-Walled Carbon Nanotubes-Based Electron Transporting Layers for Perovskite Solar Cells. IScience, 2019, 14, 100-112.	1.9	36
49	Efficient Production of Phosphorene Nanosheets via Shear Stress Mediated Exfoliation for Lowâ€Temperature Perovskite Solar Cells. Small Methods, 2019, 3, 1800521.	4.6	58
50	3D printing of poly(vinylidene fluoride-trifluoroethylene): a poling-free technique to manufacture flexible and transparent piezoelectric generators. MRS Communications, 2019, 9, 159-164.	0.8	30
51	Application of A Novel, Non-Doped, Organic Hole-Transport Layer into Single-Walled Carbon Nanotube/Silicon Heterojunction Solar Cells. Applied Sciences (Switzerland), 2019, 9, 4721.	1.3	3
52	Efficient Prediction of Structural and Electronic Properties of Hybrid 2D Materials Using Complementary DFT and Machine Learning Approaches. Advanced Theory and Simulations, 2019, 2, 1800128.	1.3	55
53	Mono-crystalline Perovskite Photovoltaics toward Ultrahigh Efficiency?. Joule, 2019, 3, 311-316.	11.7	43
54	Dip Pen Nanolithography: Direct-Patterning SWCNTs Using Dip Pen Nanolithography for SWCNT/Silicon Solar Cells (Small 16/2018). Small, 2018, 14, 1870071.	5.2	0

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55	Sustainable Polysulfides for Oil Spill Remediation: Repurposing Industrial Waste for Environmental Benefit. Advanced Sustainable Systems, 2018, 2, 1800024.	2.7	120
56	Directâ€Patterning SWCNTs Using Dip Pen Nanolithography for SWCNT/Silicon Solar Cells. Small, 2018, 14, 1800247.	5.2	13
57	Ambient air synthesis of multi-layer CVD graphene films for low-cost, efficient counter electrode material in dye-sensitized solar cells. FlatChem, 2018, 8, 1-8.	2.8	7
58	Electrocatalytic Activity of a 2D Phosphoreneâ€Based Heteroelectrocatalyst for Photoelectrochemical Cells. Angewandte Chemie - International Edition, 2018, 57, 2644-2647.	7.2	48
59	Electrocatalytic Activity of a 2D Phosphoreneâ€Based Heteroelectrocatalyst for Photoelectrochemical Cells. Angewandte Chemie, 2018, 130, 2674-2677.	1.6	8
60	Fe3O4@S nanoparticles embedded/coated on the multi-wall carbon nanotubes for rechargeable lithium batteries. Chemical Engineering Journal, 2018, 333, 268-275.	6.6	16
61	Advances in carbon nanotube n-type doping: Methods, analysis and applications. Carbon, 2018, 126, 257-270.	5.4	102
62	Black Phosphorus: Synthesis and Application for Solar Cells. Advanced Energy Materials, 2018, 8, 1701832.	10.2	118
63	Tensile behaviour of individual fibre bundles in the human lumbar anulus fibrosus. Journal of Biomechanics, 2018, 67, 24-31.	0.9	8
64	Improved Application of Carbon Nanotube Atomic Force Microscopy Probes Using PeakForce Tapping Mode. Nanomaterials, 2018, 8, 807.	1.9	17
65	Synthesis, purification, properties and characterization of sorted single-walled carbon nanotubes. Nanoscale, 2018, 10, 22087-22139.	2.8	62
66	Optimum growth time in AgPt nanofern preparation for enhancement of surface-enhanced Raman scattering intensity. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2018, 9, 045012.	0.7	1
67	Specific Targeting of Breast Cancer Cells with Antibodies Conjugated Gold Nanoparticles. Drug Delivery Letters, 2018, 8, 217-225.	0.2	4
68	Enhancing Upconversion Luminescence Efficiency via Chiral Î²-NaYF4:Er3+/Yb3+ Microcrystals Based on Mesoscale Regulation. ACS Omega, 2018, 3, 18730-18738.	1.6	3
69	Pyramidâ€Textured Antireflective Silicon Surface In Graphene Oxide/Singleâ€Wall Carbon Nanotubeâ€“Silicon Heterojunction Solar Cells. Energy and Environmental Materials, 2018, 1, 232-240.	7.3	13
70	p-Type BP nanosheet photocatalyst with AQE of 3.9% in the absence of a noble metal cocatalyst: investigation and elucidation of photophysical properties. Journal of Materials Chemistry A, 2018, 6, 18403-18408.	5.2	28
71	TiO2 nanofiber photoelectrochemical cells loaded with sub-12Ânm AuNPs: Size dependent performance evaluation. Materials Today Energy, 2018, 9, 254-263.	2.5	23
72	Mechanism of Laser Initiated Carbon Nanotube Ignition. Propellants, Explosives, Pyrotechnics, 2018, 43, 869-878.	1.0	5

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73	Efficiency Improvement Using Molybdenum Disulphide Interlayers in Single-Wall Carbon Nanotube/Silicon Solar Cells. Materials, 2018, 11, 639.	1.3	9
74	Recent progress in magnetic nanoparticles: synthesis, properties, and applications. Nanotechnology, 2018, 29, 452001.	1.3	56
75	Carbon Nanotubes in TiO₂ Nanofiber Photoelectrodes for Highâ€Performance Perovskite Solar Cells. Advanced Science, 2017, 4, 1600504.	5.6	83
76	Single-step ambient-air synthesis of graphene from renewable precursors as electrochemical genosensor. Nature Communications, 2017, 8, 14217.	5.8	122
77	Synthesis of Highly Dispersed <scp>Fe₃O₄</scp> Submicrometer Spheres in a Oneâ€Pot Anionâ€induced Solvothermal System. Journal of the Chinese Chemical Society, 2017, 64, 217-223.	0.8	9
78	Vortex Fluidics Improved Morphology of CH₃NH₃PbI_{3â€x}Cl_x Films for Perovskite Solar Cells. ChemistrySelect, 2017, 2, 369-374.	0.7	5
79	Optimization of the Metal Front Contact Design for Singleâ€Walled Carbon Nanotubeâ€Silicon Heterojunction Solar Cells. Solar Rrl, 2017, 1, 1600026.	3.1	15
80	Labeling adipose derived stem cell sheet by ultrasmall super-paramagnetic Fe3O4 nanoparticles and magnetic resonance tracking in vivo. Scientific Reports, 2017, 7, 42793.	1.6	20
81	Sulfurâ€Doped Graphene with Iron Pyrite (FeS₂) as an Efficient and Stable Electrocatalyst for the Iodine Reduction Reaction in Dyeâ€Sensitized Solar Cells. Solar Rrl, 2017, 1, 1700011.	3.1	25
82	Combined thermal and FTIR analysis of porous silicon based nano-energetic films. RSC Advances, 2017, 7, 7338-7345.	1.7	14
83	Application of a hole transporting organic interlayer in graphene oxide/single walled carbon nanotubeâ€“silicon heterojunction solar cells. Journal of Materials Chemistry A, 2017, 5, 8624-8634.	5.2	27
84	Adsorption and Desorption of Singleâ€Stranded DNA from Singleâ€Walled Carbon Nanotubes. Chemistry - an Asian Journal, 2017, 12, 1625-1634.	1.7	10
85	Multifunctional Core@Shell Magnetic Nanoprobes for Enhancing Targeted Magnetic Resonance Imaging and Fluorescent Labeling in Vitro and in Vivo. ACS Applied Materials & Interfaces, 2017, 9, 17777-17785.	4.0	42
86	Design and measurement technique of surface-enhanced Raman scattering for detection of bisphenol A. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 025008.	0.7	9
87	Single-Walled Carbon Nanotubes Enhance the Efficiency and Stability of Mesoscopic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 19945-19954.	4.0	49
88	In situ monitoring of the effect of ionic strength and pH on plasma polymer thin films. Plasma Processes and Polymers, 2017, 14, 1700084.	1.6	7
89	In vivo high-efficiency targeted photodynamic therapy of ultra-small Fe3O4@polymer-NPO/PEG-Glc@Ce6 nanoprobes based on small size effect. NPG Asia Materials, 2017, 9, e383-e383.	3.8	22
90	Factors affecting carbon nanotube fillers towards enhancement of thermal conductivity in polymer nanocomposites: A review. Journal of Composite Materials, 2017, 51, 3657-3668.	1.2	30

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91	Nitrogenâ€Doped CN_x/CNTs Heteroelectrocatalysts for Highly Efficient Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2017, 7, 1602276.	10.2	102
92	Insights into chemical doping to engineer the carbon nanotube/silicon photovoltaic heterojunction interface. Journal of Materials Chemistry A, 2017, 5, 24247-24256.	5.2	16
93	Efficiency Enhancement of Singleâ€Walled Carbon Nanotubeâ€Silicon Heterojunction Solar Cells Using Microwaveâ€Exfoliated Fewâ€Layer Black Phosphorus. Advanced Functional Materials, 2017, 27, 1704488.	7.8	42
94	Application of Hole-Transporting Materials as the Interlayer in Graphene Oxide/Single-Wall Carbon Nanotube Silicon Heterojunction Solar Cells. Australian Journal of Chemistry, 2017, 70, 1202.	0.5	7
95	Large-scale immuno-magnetic cell sorting of T cells based on a self-designed high-throughput system for potential clinical application. Nanoscale, 2017, 9, 13592-13599.	2.8	24
96	Nanostructured anode materials for lithium-ion batteries: principle, recent progress and future perspectives. Journal of Materials Chemistry A, 2017, 5, 19521-19540.	5.2	323
97	Plasmonic Gold Nanostars Incorporated into Highâ€Efficiency Perovskite Solar Cells. ChemSusChem, 2017, 10, 3750-3753.	3.6	39
98	In vivo targeted therapy of gastric tumors via the mechanical rotation of a flower-like Fe3O4@Au nanoprobe under an alternating magnetic field. NPG Asia Materials, 2017, 9, e408-e408.	3.8	20
99	Efficient and Fast Synthesis of Fewâ€Layer Black Phosphorus via Microwaveâ€Assisted Liquidâ€Phase Exfoliation. Small Methods, 2017, 1, 1700260.	4.6	59
100	Back Cover: Solar RRL 2â•2017. Solar Rrl, 2017, 1, 1770108.	3.1	0
101	Back Cover: Solar RRL 3â€4â•2017. Solar Rrl, 2017, 1, 1770113.	3.1	0
102	Direct deposition of silver nanoplates on quartz surface by sequence pre-treatment hydroxylation and silanisation. MethodsX, 2017, 4, 486-491.	0.7	5
103	Fabrication of Tissue-Engineered Bionic Urethra Using Cell Sheet Technology and Labeling By Ultrasmall Superparamagnetic Iron Oxide for Full-Thickness Urethral Reconstruction. Theranostics, 2017, 7, 2509-2523.	4.6	49
104	Solution Based Methods for the Fabrication of Carbon Nanotube Modified Atomic Force Microscopy Probes. Nanomaterials, 2017, 7, 346.	1.9	19
105	Synthesis of silverâ€“platinum nanoferns substrates used in surface-enhanced Raman spectroscopy sensors to detect creatinine. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 025015.	0.7	4
106	Investigation of the pH Dependent Cytotoxicity of Paclitaxel Conjugated Gold Nanoparticles. Pharmaceutical Nanotechnology, 2017, 5, 111-118.	0.6	3
107	Localization and uptake of fluorescently labelled gold nanoparticles by a t47d human breast cancer cell line. International Journal of Pharma and Bio Sciences, 2017, 8, .	0.1	0
108	Investigating the Effect of Carbon Nanotube Diameter and Wall Number in Carbon Nanotube/Silicon Heterojunction Solar Cells. Nanomaterials, 2016, 6, 52.	1.9	38

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109	Online Education and Training for Microscopy and Microanalysis: MyScope^{TM}. Microscopy Today, 2016, 24, 44-49.	0.2	4
110	Tin Oxide Lightâ€Scattering Layer for Titania Photoanodes in Dyeâ€Sensitized Solar Cells. Energy Technology, 2016, 4, 959-966.	1.8	11
111	Incorporation of graphene into SnO2 photoanodes for dye-sensitized solar cells. Applied Surface Science, 2016, 387, 690-697.	3.1	38
112	Effect of Modification Protocols on the Effectiveness of Gold Nanoparticles as Drug Delivery Vehicles for Killing of Breast Cancer Cells. Australian Journal of Chemistry, 2016, 69, 1402.	0.5	11
113	Hydrothermal Synthesis of Monodispersed <scp>BaGdF₅</scp>:Yb/Er Nanoparticles for <scp>CT</scp> and <scp>MR</scp> Imaging. Journal of the Chinese Chemical Society, 2016, 63, 977-984.	0.8	8
114	Recent Development of Carbon Nanotube Transparent Conductive Films. Chemical Reviews, 2016, 116, 13413-13453.	23.0	391
115	Sensitiveness of Porous Siliconâ€Based Nanoâ€Energetic Films. Propellants, Explosives, Pyrotechnics, 2016, 41, 1029-1035.	1.0	12
116	Phosphorene and Phosphoreneâ€Based Materials â€“ Prospects for Future Applications. Advanced Materials, 2016, 28, 8586-8617.	11.1	378
117	Synthesis of ultra-long hierarchical ZnO whiskers in a hydrothermal system for dye-sensitised solar cells. RSC Advances, 2016, 6, 109406-109413.	1.7	10
118	Superparamagnetic Fe3O4-PEG2K-FA@Ce6 Nanoprobes for in Vivo Dual-mode Imaging and Targeted Photodynamic Therapy. Scientific Reports, 2016, 6, 36187.	1.6	33
119	Carbon nanotube modified probes for stable and high sensitivity conductive atomic force microscopy. Nanotechnology, 2016, 27, 475708.	1.3	22
120	Solution processed graphene structures for perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 2605-2616.	5.2	73
121	SWCNT photocathodes sensitised with InP/ZnS coreâ€“shell nanocrystals. Journal of Materials Chemistry C, 2016, 4, 3379-3384.	2.7	15
122	Optimization and Doping of Reduced Graphene Oxideâ€“Silicon Solar Cells. Journal of Physical Chemistry C, 2016, 120, 15648-15656.	1.5	29
123	Accurate thickness measurement of graphene. Nanotechnology, 2016, 27, 125704.	1.3	325
124	Heterojunction Solar Cells Based on Silicon and Composite Films of Polyaniline and Carbon Nanotubes. IEEE Journal of Photovoltaics, 2016, 6, 688-695.	1.5	18
125	A TiO2Nanofiber-Carbon Nanotube-Composite Photoanode for Improved Efficiency in Dye-Sensitized Solar Cells. ChemSusChem, 2015, 8, 3351-3351.	3.6	1
126	Ultrafine ferroferric oxide nanoparticles embedded into mesoporous carbon nanotubes for lithium ion batteries. Scientific Reports, 2015, 5, 17553.	1.6	35

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127	A TiO₂ Nanofiberâ€“Carbon Nanotubeâ€Composite Photoanode for Improved Efficiency in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2015, 8, 3396-3400.	3.6	43
128	Heterojunction Solar Cells Based on Silicon and Composite Films of Graphene Oxide and Carbon Nanotubes. ChemSusChem, 2015, 8, 2940-2947.	3.6	26
129	Self-Assembly of High Density of Triangular Silver Nanoplate Films Promoted by 3-Aminopropyltrimethoxysilane. Applied Sciences (Switzerland), 2015, 5, 209-221.	1.3	32
130	Pathway to high throughput, low cost indium-free transparent electrodes. Journal of Materials Chemistry A, 2015, 3, 13892-13899.	5.2	15
131	Aligned Carbon Nanotube Thin Films from Liquid Crystal Polyelectrolyte Inks. ACS Applied Materials & Interfaces, 2015, 7, 25857-25864.	4.0	38
132	Nanocarbons for mesoscopic perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 9020-9031.	5.2	104
133	Carbonaceous Dyeâ€Sensitized Solar Cell Photoelectrodes. Advanced Science, 2015, 2, 1400025.	5.6	39
134	Membraneâ€“drug interactions studied using model membrane systems. Saudi Journal of Biological Sciences, 2015, 22, 714-718.	1.8	64
135	Synthesis of three-dimensional rare-earth ions doped CNTs-GO-Fe3O4 hybrid structures using one-pot hydrothermal method. Journal of Alloys and Compounds, 2015, 649, 82-88.	2.8	18
136	Microbial cell lysis and nucleic acid extraction via nanofluidic channel. RSC Advances, 2015, 5, 23886-23891.	1.7	4
137	Implementation of antireflection layers for improved efficiency of carbon nanotubeâ€“silicon heterojunction solar cells. Solar Energy, 2015, 118, 592-599.	2.9	36
138	Planar silver nanowire, carbon nanotube and PEDOT:PSS nanocomposite transparent electrodes. Science and Technology of Advanced Materials, 2015, 16, 025002.	2.8	24
139	Solution processed grapheneâ€“silicon Schottky junction solar cells. RSC Advances, 2015, 5, 38851-38858.	1.7	15
140	Interaction of Silver Nanoparticles with Tethered Bilayer Lipid Membranes. Langmuir, 2015, 31, 5868-5874.	1.6	23
141	Carbon Nanotubes for Dye-Sensitized Solar Cells. Small, 2015, 11, 2963-2989.	5.2	122
142	Characterization of the comparative drug binding to intra- (liver fatty acid binding protein) and extra- (human serum albumin) cellular proteins. Xenobiotica, 2015, 45, 847-857.	0.5	6
143	Application of Polymer Interlayers in Siliconâ€“Carbon Nanotube Heterojunction Solar Cells. ChemNanoMat, 2015, 1, 115-121.	1.5	24
144	Solar Power: Carbonaceous Dye-Sensitized Solar Cell Photoelectrodes (Adv. Sci. 3/2015). Advanced Science, 2015, 2, .	5.6	0

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145	The Influence of Nanopore Dimensions on the Electrochemical Properties of Nanopore Arrays Studied by Impedance Spectroscopy. Sensors, 2014, 14, 21316-21328.	2.1	22
146	Laser shock ignition of porous silicon based nano-energetic films. Journal of Applied Physics, 2014, 116, 054912.	1.1	6
147	The Potential of Gold Nanoparticle Conjugates to Kill Cancer Cells in Culture. Procedia Engineering, 2014, 92, 26-29.	1.2	5
148	Nanotube film metallicity and its effect on the performance of carbon nanotubeâ€“silicon solar cells. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1479-1487.	0.8	36
149	The effect of a macrocyclic constraint on electron transfer in helical peptides: A step towards tunable molecular wires. Chemical Communications, 2014, 50, 1652.	2.2	16
150	Electrochemically prepared nanoporous gold as a SERS substrate with high enhancement. RSC Advances, 2014, 4, 19502-19506.	1.7	11
151	Impedance nanopore biosensor: influence of pore dimensions on biosensing performance. Analyst, The, 2014, 139, 1134.	1.7	41
152	Characterization of impedance biosensing performance of single and nanopore arrays of anodic porous alumina fabricated by focused ion beam (FIB) milling. Electrochimica Acta, 2014, 139, 225-231.	2.6	15
153	Influence of dimensions, inter-distance and crystallinity of titania nanotubes (TNTs) on their photocatalytic activity. Catalysis Science and Technology, 2014, 4, 2091-2098.	2.1	21
154	Graphene masks as passivation layers in the electrochemical etching of silicon. Journal of Materials Science, 2014, 49, 7819-7823.	1.7	1
155	Unraveling the Interplay of Backbone Rigidity and Electron Rich Side-Chains on Electron Transfer in Peptides: The Realization of Tunable Molecular Wires. Journal of the American Chemical Society, 2014, 136, 12479-12488.	6.6	37
156	HIV-1 antibodies and vaccine antigen selectively interact with lipid domains. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2662-2669.	1.4	4
157	Copper removal using bio-inspired polydopamine coated natural zeolites. Journal of Hazardous Materials, 2014, 273, 174-182.	6.5	160
158	Surfactant Concentration Dependent Spectral Effects of Oxygen and Depletion Interactions in Sodium Dodecyl Sulfate Dispersions of Carbon Nanotubes. Journal of Physical Chemistry B, 2014, 118, 6288-6296.	1.2	27
159	Separation of Double-Walled Carbon Nanotubes by Size Exclusion Column Chromatography. ACS Nano, 2014, 8, 6756-6764.	7.3	33
160	Use of Carbon Nanotubes (CNTs) with Polymers in Solar Cells. Molecules, 2014, 19, 17329-17344.	1.7	80
161	The Benefit and Impact of On-Line Tools for Microscopy and Microanalysis Training and Education in Core Facilities.. Microscopy and Microanalysis, 2014, 20, 2158-2159.	0.2	0
162	Impedance Spectroscopy Study of Nanopore Arrays for Biosensing Applications. Science of Advanced Materials, 2014, 6, 1375-1381.	0.1	8

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163	Enhanced adsorption of mercury ions on thiol derivatized single wall carbon nanotubes. Journal of Hazardous Materials, 2013, 261, 534-541.	6.5	158
164	The potential sunlight harvesting efficiency of carbon nanotube solar cells. Energy and Environmental Science, 2013, 6, 2572.	15.6	53
165	Increased redox-active peptide loading on carbon nanotube electrodes. Electrochimica Acta, 2013, 89, 206-211.	2.6	15
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