

# Joe George Shapter

## List of Publications by Year in descending order

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308  
papers

11,883  
citations

30070

54  
h-index

40979

93  
g-index

321  
all docs

321  
docs citations

321  
times ranked

15959  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Electrochemistry Using Aligned Carbon Nanotube Arrays. <i>Journal of the American Chemical Society</i> , 2003, 125, 9006-9007.	13.7	853
2	Recent Development of Carbon Nanotube Transparent Conductive Films. <i>Chemical Reviews</i> , 2016, 116, 13413-13453.	47.7	391
3	Phosphorene and Phosphorene-Based Materials – Prospects for Future Applications. <i>Advanced Materials</i> , 2016, 28, 8586-8617.	21.0	378
4	Accurate thickness measurement of graphene. <i>Nanotechnology</i> , 2016, 27, 125704.	2.6	325
5	Nanostructured anode materials for lithium-ion batteries: principle, recent progress and future perspectives. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19521-19540.	10.3	323
6	Recent progress of advanced anode materials of lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 57, 451-468.	12.9	245
7	Measurement of functionalised carbon nanotube carboxylic acid groups using a simple chemical process. <i>Carbon</i> , 2006, 44, 1137-1141.	10.3	239
8	New developments in composites, copolymer technologies and processing techniques for flexible fluoropolymer piezoelectric generators for efficient energy harvesting. <i>Energy and Environmental Science</i> , 2019, 12, 1143-1176.	30.8	187
9	Alginate-graphene oxide hybrid gel beads: An efficient copper adsorbent material. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 32-38.	9.4	185
10	Copper removal using bio-inspired polydopamine coated natural zeolites. <i>Journal of Hazardous Materials</i> , 2014, 273, 174-182.	12.4	160
11	Enhanced adsorption of mercury ions on thiol derivatized single wall carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2013, 261, 534-541.	12.4	158
12	Carbon Nanotube-Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1043-1055.	19.5	144
13	Ti3C2 MXenes-derived NaTi2(PO4)3/MXene nanohybrid for fast and efficient hybrid capacitive deionization performance. <i>Chemical Engineering Journal</i> , 2021, 407, 127148.	12.7	140
14	Highly efficient photocatalytic degradation of different hazardous contaminants by CaIn2S4-Ti3C2Tx Schottky heterojunction: An experimental and mechanism study. <i>Chemical Engineering Journal</i> , 2021, 421, 127838.	12.7	138
15	Benzene carboxylic acid derivatized graphene oxide nanosheets on natural zeolites as effective adsorbents for cationic dye removal. <i>Journal of Hazardous Materials</i> , 2013, 260, 330-338.	12.4	125
16	Carbon Nanotubes for Dye-Sensitized Solar Cells. <i>Small</i> , 2015, 11, 2963-2989.	10.0	122
17	Single-step ambient-air synthesis of graphene from renewable precursors as electrochemical genosensor. <i>Nature Communications</i> , 2017, 8, 14217.	12.8	122
18	Sustainable Polysulfides for Oil Spill Remediation: Repurposing Industrial Waste for Environmental Benefit. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800024.	5.3	120

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19	Black Phosphorus: Synthesis and Application for Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1701832.	19.5	118
20	The effects of the lengths and orientations of single-walled carbon nanotubes on the electrochemistry of nanotube-modified electrodes. <i>Electrochemistry Communications</i> , 2007, 9, 1677-1683.	4.7	109
21	Nanocarbons for mesoscopic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9020-9031.	10.3	104
22	Nitrogen-Doped CN <sub>x</sub> /CNTs Heteroelectrocatalysts for Highly Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602276.	19.5	102
23	Advances in carbon nanotube n-type doping: Methods, analysis and applications. <i>Carbon</i> , 2018, 126, 257-270.	10.3	102
24	Structural and chemical modification of porous alumina membranes. <i>Microporous and Mesoporous Materials</i> , 2009, 126, 87-94.	4.4	96
25	Ruthenium Porphyrin Functionalized Single-Walled Carbon Nanotube Arrays—A Step Toward Light Harvesting Antenna and Multibit Information Storage. <i>Journal of the American Chemical Society</i> , 2008, 130, 8788-8796.	13.7	93
26	Dual Silane Surface Functionalization for the Selective Attachment of Human Neuronal Cells to Porous Silicon. <i>Langmuir</i> , 2011, 27, 9497-9503.	3.5	92
27	Nitrogen-doped phosphorene for electrocatalytic ammonia synthesis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15875-15883.	10.3	88
28	Carbon Nanotubes in TiO <sub>2</sub> Nanofiber Photoelectrodes for High-Performance Perovskite Solar Cells. <i>Advanced Science</i> , 2017, 4, 1600504.	11.2	83
29	Highly Dispersed Ru Nanoparticles on Boron-Doped Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (MXene) Nanosheets for Synergistic Enhancement of Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2021, 17, e2102218.	10.0	83
30	Heterointerface optimization in a covalent organic framework-on-MXene for high-performance capacitive deionization of oxygenated saline water. <i>Materials Horizons</i> , 2022, 9, 1708-1716.	12.2	82
31	The origin of the color of pearls in iridescence from nano-composite structures of the nacre. <i>American Mineralogist</i> , 2004, 89, 1353-1358.	1.9	81
32	Use of Carbon Nanotubes (CNTs) with Polymers in Solar Cells. <i>Molecules</i> , 2014, 19, 17329-17344.	3.8	80
33	Supergene gold transformation: Biogenic secondary and nano-particulate gold from arid Australia. <i>Chemical Geology</i> , 2012, 320-321, 17-31.	3.3	79
34	Emerging 2D Layered Materials for Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1902253.	19.5	79
35	Direct attachment of well-aligned single-walled carbon nanotube architectures to silicon (100) surfaces: a simple approach for device assembly. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 510-520.	2.8	78
36	Solution processed graphene structures for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2605-2616.	10.3	73

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37	Nanoporous anodic aluminium oxide membranes with layered surface chemistry. <i>Chemical Communications</i> , 2009, , 3062.	4.1	72
38	Biom mineralization of Gold in Biofilms of <i>Cupriavidus metallidurans</i> . <i>Environmental Science &amp; Technology</i> , 2013, 47, 2628-2635.	10.0	70
39	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (MXene)â€Silicon Heterojunction for Efficient Photovoltaic Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901063.	19.5	68
40	Observation of the oxidation of galena using Raman spectroscopy. <i>International Journal of Mineral Processing</i> , 2000, 60, 199-211.	2.6	67
41	Recent Advances in Applications of Sorted Single-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2019, 29, 1902273.	14.9	67
42	Gold nanotube membranes functionalised with fluorinated thiols for selective molecular transport. <i>Journal of Membrane Science</i> , 2009, 328, 121-126.	8.2	64
43	Membraneâ€drug interactions studied using model membrane systems. <i>Saudi Journal of Biological Sciences</i> , 2015, 22, 714-718.	3.8	64
44	Sorghum biomass-derived porous carbon electrodes for capacitive deionization and energy storage. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110757.	4.4	63
45	Ambient Fabrication of Organicâ€Inorganic Hybrid Perovskite Solar Cells. <i>Small Methods</i> , 2021, 5, e2000744.	8.6	63
46	Synthesis, purification, properties and characterization of sorted single-walled carbon nanotubes. <i>Nanoscale</i> , 2018, 10, 22087-22139.	5.6	62
47	Scanning Tunneling Microscopy Studies of Glucose Oxidase on Gold Surfaces. <i>Langmuir</i> , 2002, 18, 5422-5428.	3.5	61
48	Supramolecular construction of vesicles based on core-substituted naphthalene diimide appended with triethyleneglycol motifs. <i>Chemical Communications</i> , 2011, 47, 8226.	4.1	60
49	Printed recyclable and self-poled polymer piezoelectric generators through single-walled carbon nanotube templating. <i>Energy and Environmental Science</i> , 2020, 13, 868-883.	30.8	60
50	Efficient and Fast Synthesis of Few-Layer Black Phosphorus via Microwave-Assisted Liquid-Phase Exfoliation. <i>Small Methods</i> , 2017, 1, 1700260.	8.6	59
51	The effect of bulk iron concentration and heterogeneities on the copper activation of sphalerite. <i>Minerals Engineering</i> , 2008, 21, 1005-1012.	4.3	58
52	Efficient Production of Phosphorene Nanosheets via Shear Stress Mediated Exfoliation for Low-Temperature Perovskite Solar Cells. <i>Small Methods</i> , 2019, 3, 1800521.	8.6	58
53	Gold nanotube membranes have catalytic properties. <i>Microporous and Mesoporous Materials</i> , 2012, 153, 131-136.	4.4	57
54	Surface oxidized two-dimensional antimonene nanosheets for electrochemical ammonia synthesis under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4735-4739.	10.3	57

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55	Interfacial piezoelectric polarization locking in printable Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-fluoropolymer composites. <i>Nature Communications</i> , 2021, 12, 3171.	12.8	57
56	Supramolecular Mn(II) and Mn(II)/Mn(III) Grid Complexes with [Mn <sub>9</sub> ( $\mu$ <sub>4</sub> -O) <sub>12</sub> ] Core Structures. Structural, Magnetic, and Redox Properties and Surface Studies. <i>Inorganic Chemistry</i> , 2004, 43, 3812-3824.	4.0	56
57	Electron-transfer characteristics of ferrocene attached to single-walled carbon nanotubes (SWCNT) arrays directly anchored to silicon(100). <i>Electrochimica Acta</i> , 2007, 52, 6206-6211.	5.2	56
58	Recent progress in magnetic nanoparticles: synthesis, properties, and applications. <i>Nanotechnology</i> , 2018, 29, 452001.	2.6	56
59	Microwave-assisted synthesis of black phosphorus quantum dots: efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12974-12978.	10.3	56
60	Fabrication of gold nanorod arrays by templating from porous alumina. <i>Nanotechnology</i> , 2005, 16, 2275-2281.	2.6	55
61	Efficient Prediction of Structural and Electronic Properties of Hybrid 2D Materials Using Complementary DFT and Machine Learning Approaches. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800128.	2.8	55
62	The potential sunlight harvesting efficiency of carbon nanotube solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 2572.	30.8	53
63	Multifunctional nanostructured materials for next generation photovoltaics. <i>Nano Energy</i> , 2020, 70, 104480.	16.0	52
64	Fabrication of self-supporting porous silicon membranes and tuning transport properties by surface functionalization. <i>Nanoscale</i> , 2010, 2, 1756.	5.6	51
65	The Burning Rate of Energetic Films of Nanostructured Porous Silicon. <i>Small</i> , 2011, 7, 3392-3398.	10.0	50
66	Preparation and characterisation of an aligned carbon nanotube array on the silicon (100) surface. <i>Soft Matter</i> , 2006, 2, 1081-1088.	2.7	49
67	The Role of Nanotubes in Carbon Nanotube-Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1091-1097.	19.5	49
68	Single-Walled Carbon Nanotubes Enhance the Efficiency and Stability of Mesoscopic Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 19945-19954.	8.0	49
69	Fabrication of Tissue-Engineered Bionic Urethra Using Cell Sheet Technology and Labeling By Ultrasmall Superparamagnetic Iron Oxide for Full-Thickness Urethral Reconstruction. <i>Theranostics</i> , 2017, 7, 2509-2523.	10.0	49
70	A Portable and Efficient Solar-Rechargeable Battery with Ultrafast Photo-Charge/Discharge Rate. <i>Advanced Energy Materials</i> , 2019, 9, 1900872.	19.5	49
71	Effect of the cyanide-producing bacterium <i>Chromobacterium violaceum</i> on ultraflat Au surfaces. <i>Chemical Geology</i> , 2009, 265, 313-320.	3.3	48
72	Self-ordering Electrochemistry: A Simple Approach for Engineering Nanopore and Nanotube Arrays for Emerging Applications. <i>Australian Journal of Chemistry</i> , 2011, 64, 294.	0.9	48

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73	Electrocatalytic Activity of a 2D Phosphorene-Based Heteroelectrocatalyst for Photoelectrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2644-2647.	13.8	48
74	Nanoscale Patterning of Carbon Nanotubes: Techniques, Applications, and Future. <i>Advanced Science</i> , 2021, 8, 2001778.	11.2	48
75	Patterned attachment of carbon nanotubes to silane modified silicon. <i>Carbon</i> , 2007, 45, 2551-2558.	10.3	46
76	Simulation of Water Transport Through Functionalized Single-Walled Carbon Nanotubes (SWCNTs). <i>Journal of Physical Chemistry C</i> , 2012, 116, 24943-24953.	3.1	46
77	Origin of Performance Enhancement in TiO <sub>2</sub> -Carbon Nanotube Composite Perovskite Solar Cells. <i>Small Methods</i> , 2019, 3, 1900164.	8.6	45
78	Micropatterned Arrays of Porous Silicon: Toward Sensory Biointerfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2463-2471.	8.0	43
79	Biomimetic supported lipid bilayers with high cholesterol content formed by $\alpha$ -helical peptide-induced vesicle fusion. <i>Journal of Materials Chemistry</i> , 2012, 22, 19506.	6.7	43
80	A TiO <sub>2</sub> Nanofiber-Carbon Nanotube-Composite Photoanode for Improved Efficiency in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2015, 8, 3396-3400.	6.8	43
81	Mono-crystalline Perovskite Photovoltaics toward Ultrahigh Efficiency?. <i>Joule</i> , 2019, 3, 311-316.	24.0	43
82	A bright future for engineering piezoelectric 2D crystals. <i>Chemical Society Reviews</i> , 2022, 51, 650-671.	38.1	43
83	The role of sodium dodecyl sulfate concentration in the separation of carbon nanotubes using gel chromatography. <i>Carbon</i> , 2013, 60, 471-480.	10.3	42
84	Multifunctional Core@Shell Magnetic Nanoprobes for Enhancing Targeted Magnetic Resonance Imaging and Fluorescent Labeling in Vitro and in Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17777-17785.	8.0	42
85	Efficiency Enhancement of Single-Walled Carbon Nanotube-Silicon Heterojunction Solar Cells Using Microwave-Exfoliated Few-Layer Black Phosphorus. <i>Advanced Functional Materials</i> , 2017, 27, 1704488.	14.9	42
86	Micromechanical properties of human trabecular bone: A hierarchical investigation using nanoindentation. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 196-202.	4.0	41
87	Impedance nanopore biosensor: influence of pore dimensions on biosensing performance. <i>Analyst</i> , 2014, 139, 1134.	3.5	41
88	Robust Forests of Vertically Aligned Carbon Nanotubes Chemically Assembled on Carbon Substrates. <i>Langmuir</i> , 2010, 26, 1848-1854.	3.5	40
89	Highly conductive interwoven carbon nanotube and silver nanowire transparent electrodes. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 035004.	6.1	40
90	Ab initio study of benzene adsorption on the Cu(110) surface and simulation of STM images. <i>Surface Science</i> , 2004, 548, 29-40.	1.9	39

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91	Nanopore Gradients on Porous Aluminum Oxide Generated by Nonuniform Anodization of Aluminum. ACS Applied Materials & Interfaces, 2010, 2, 3447-3454.	8.0	39
92	Material Properties of Lipid Microdomains: Force-Volume Imaging Study of the Effect of Cholesterol on Lipid Microdomain Rigidity. Biophysical Journal, 2010, 99, 834-844.	0.5	39
93	Nanoporous alumina-based interferometric transducers ennobled. Nanoscale, 2011, 3, 3109.	5.6	39
94	Carbonaceous Dye-Sensitized Solar Cell Photoelectrodes. Advanced Science, 2015, 2, 1400025.	11.2	39
95	Plasmonic Gold Nanostars Incorporated into High-Efficiency Perovskite Solar Cells. ChemSusChem, 2017, 10, 3750-3753.	6.8	39
96	Aligned Carbon Nanotube Thin Films from Liquid Crystal Polyelectrolyte Inks. ACS Applied Materials & Interfaces, 2015, 7, 25857-25864.	8.0	38
97	Investigating the Effect of Carbon Nanotube Diameter and Wall Number in Carbon Nanotube/Silicon Heterojunction Solar Cells. Nanomaterials, 2016, 6, 52.	4.1	38
98	Incorporation of graphene into SnO <sub>2</sub> photoanodes for dye-sensitized solar cells. Applied Surface Science, 2016, 387, 690-697.	6.1	38
99	Single-Walled Carbon Nanotube/Polyaniline/n-Silicon Solar Cells: Fabrication, Characterization, and Performance Measurements. ChemSusChem, 2013, 6, 320-327.	6.8	37
100	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.	13.7	37
101	Electron transfer through $\beta$ -peptides attached to vertically aligned carbon nanotube arrays: a mechanistic transition. Chemical Communications, 2012, 48, 1132-1134.	4.1	36
102	Nanotube film metallicity and its effect on the performance of carbon nanotube-silicon solar cells. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1479-1487.	1.8	36
103	Implementation of antireflection layers for improved efficiency of carbon nanotube-silicon heterojunction solar cells. Solar Energy, 2015, 118, 592-599.	6.1	36
104	Electrically Sorted Single-Walled Carbon Nanotubes-Based Electron Transporting Layers for Perovskite Solar Cells. IScience, 2019, 14, 100-112.	4.1	36
105	[CF <sub>3</sub> Au(C.tplbond.NMe)] as a precursor for CVD of gold. Chemistry of Materials, 1992, 4, 979-981.	6.7	35
106	Ultrafine ferroferric oxide nanoparticles embedded into mesoporous carbon nanotubes for lithium ion batteries. Scientific Reports, 2015, 5, 17553.	3.3	35
107	Single walled carbon nanotube network electrodes for dye solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1665-1672.	6.2	34
108	1D-2D Synergistic MXene-Nanotubes Hybrids for Efficient Perovskite Solar Cells. Small, 2021, 17, e2101925.	10.0	34

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109	Separation of Double-Walled Carbon Nanotubes by Size Exclusion Column Chromatography. ACS Nano, 2014, 8, 6756-6764.	14.6	33
110	Superparamagnetic Fe <sub>3</sub> O <sub>4</sub> -PEG2K-FA@Ce6 Nanoprobes for in Vivo Dual-mode Imaging and Targeted Photodynamic Therapy. Scientific Reports, 2016, 6, 36187.	3.3	33
111	Matrix metalloproteinase-2-targeted superparamagnetic Fe <sub>3</sub> O <sub>4</sub> -PEG-G5-MMP2@Ce6 nanoprobes for dual-mode imaging and photodynamic therapy. Nanoscale, 2019, 11, 18426-18435.	5.6	33
112	Efficiency and stability enhancement of perovskite solar cells using reduced graphene oxide derived from earth-abundant natural graphite. RSC Advances, 2020, 10, 9133-9139.	3.6	33
113	Patterned polyaniline & carbon nanotube-polyaniline composites on silicon. Soft Matter, 2009, 5, 164-172.	2.7	32
114	Self-Assembly of High Density of Triangular Silver Nanoplate Films Promoted by 3-Aminopropyltrimethoxysilane. Applied Sciences (Switzerland), 2015, 5, 209-221.	2.5	32
115	Few-layer black phosphorus and boron-doped graphene based heteroelectrocatalyst for enhanced hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 20446-20452.	10.3	32
116	Photocurrent Response from Vertically Aligned Single-Walled Carbon Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 6778-6783.	3.1	31
117	Grafting of Poly(ethylene glycol) on Click Chemistry Modified Si(100) Surfaces. Langmuir, 2013, 29, 8355-8362.	3.5	31
118	Raman spectroscopy probing of self-assembled monolayers inside the pores of gold nanotube membranes. Physical Chemistry Chemical Physics, 2011, 13, 19587.	2.8	30
119	Factors affecting carbon nanotube fillers towards enhancement of thermal conductivity in polymer nanocomposites: A review. Journal of Composite Materials, 2017, 51, 3657-3668.	2.4	30
120	3D printing of poly(vinylidene fluoride-trifluoroethylene): a poling-free technique to manufacture flexible and transparent piezoelectric generators. MRS Communications, 2019, 9, 159-164.	1.8	30
121	Optimization and Doping of Reduced Graphene Oxide-Silicon Solar Cells. Journal of Physical Chemistry C, 2016, 120, 15648-15656.	3.1	29
122	Light-conversion phosphor nanoarchitectonics for improved light harvesting in sensitized solar cells. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 47, 100404.	11.6	29
123	Cesium-doped Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for efficient and thermally stable perovskite solar cells. Cell Reports Physical Science, 2021, 2, 100598.	5.6	29
124	Nanomechanical Characterization of Phospholipid Bilayer Islands on Flat and Porous Substrates: A Force Spectroscopy Study. Journal of Physical Chemistry B, 2009, 113, 10339-10347.	2.6	28
125	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.	10.3	28
126	Carbon Nanotubes Anchored to Silicon for Device Fabrication. Advanced Materials, 2010, 22, 557-571.	21.0	27



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127	Electrochemical Detection of Copper Using a Gly-Gly-His Modified Carbon Nanotube Biosensor. Silicon, 2011, 3, 163-171.	3.3	27
128	Comparison of double-walled with single-walled carbon nanotube electrodes by electrochemistry. Carbon, 2011, 49, 2639-2647.	10.3	27
129	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.	2.6	27
130	Application of a hole transporting organic interlayer in graphene oxide/single walled carbon nanotube-silicon heterojunction solar cells. Journal of Materials Chemistry A, 2017, 5, 8624-8634.	10.3	27
131	Concentration dependence in microcontact printing of self-assembled monolayers (SAMs) of alkanethiols. Electrochemistry Communications, 2001, 3, 722-726.	4.7	26
132	Patterned ferrocenemethanol modified carbon nanotube electrodes on silane modified silicon. Journal of Materials Chemistry, 2007, 17, 4757.	6.7	26
133	Effect of Nanotube Film Thickness on the Performance of Nanotube-Silicon Hybrid Solar Cells. Nanomaterials, 2013, 3, 655-673.	4.1	26
134	Heterojunction Solar Cells Based on Silicon and Composite Films of Graphene Oxide and Carbon Nanotubes. ChemSusChem, 2015, 8, 2940-2947.	6.8	26
135	Adhesion of chemically and electrostatically bound gold nanoparticles to a self-assembled silane monolayer investigated by atomic force volume spectroscopy. Journal of Nanoparticle Research, 2009, 11, 2013-2022.	1.9	25
136	Sulfur-Doped Graphene with Iron Pyrite (FeS <sub>2</sub> ) as an Efficient and Stable Electrocatalyst for the Iodine Reduction Reaction in Dye-Sensitized Solar Cells. Solar Rrl, 2017, 1, 1700011.	5.8	25
137	High-Performance Capacitive Deionization by Lignocellulose-Derived Eco-Friendly Porous Carbon Materials. Bulletin of the Chemical Society of Japan, 2020, 93, 1014-1019.	3.2	25
138	Photodissociation of nitrogen dioxide adsorbed on lithium fluoride (001). The Journal of Physical Chemistry, 1992, 96, 10983-10994.	2.9	24
139	Electrochemical and Computational Studies on Intramolecular Dissociative Electron Transfer in $\beta$ -Peptides. Journal of Physical Chemistry C, 2012, 116, 26608-26617.	3.1	24
140	Planar silver nanowire, carbon nanotube and PEDOT:PSS nanocomposite transparent electrodes. Science and Technology of Advanced Materials, 2015, 16, 025002.	6.1	24
141	Application of Polymer Interlayers in Silicon-Carbon Nanotube Heterojunction Solar Cells. ChemNanoMat, 2015, 1, 115-121.	2.8	24
142	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.	5.6	24
143	Characterisation of the Binding of Cationic Amphiphilic Drugs to Phospholipid Bilayers Using Surface Plasmon Resonance. ChemMedChem, 2007, 2, 366-373.	3.2	23
144	Interaction of Silver Nanoparticles with Tethered Bilayer Lipid Membranes. Langmuir, 2015, 31, 5868-5874.	3.5	23

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145	TiO <sub>2</sub> nanofiber photoelectrochemical cells loaded with sub-12Ånm AuNPs: Size dependent performance evaluation. <i>Materials Today Energy</i> , 2018, 9, 254-263.	4.7	23
146	The Influence of Nanopore Dimensions on the Electrochemical Properties of Nanopore Arrays Studied by Impedance Spectroscopy. <i>Sensors</i> , 2014, 14, 21316-21328.	3.8	22
147	Carbon nanotube modified probes for stable and high sensitivity conductive atomic force microscopy. <i>Nanotechnology</i> , 2016, 27, 475708.	2.6	22
148	In vivo high-efficiency targeted photodynamic therapy of ultra-small Fe <sub>3</sub> O <sub>4</sub> @polymer-NPO/PEG-Glc@Ce6 nanoprobe based on small size effect. <i>NPG Asia Materials</i> , 2017, 9, e383-e383.	7.9	22
149	Chemically immobilised carbon nanotubes on silicon: Stable surfaces for aqueous electrochemistry. <i>Electrochimica Acta</i> , 2010, 55, 3995-4001.	5.2	21
150	Functionalization of vertically aligned carbon nanotubes with polystyrene via surface initiated reversible addition fragmentation chain transfer polymerization. <i>Applied Surface Science</i> , 2012, 258, 2836-2843.	6.1	21
151	Human bone material characterization: integrated imaging surface investigation of male fragility fractures. <i>Osteoporosis International</i> , 2012, 23, 1297-1309.	3.1	21
152	Influence of dimensions, inter-distance and crystallinity of titania nanotubes (TNTs) on their photocatalytic activity. <i>Catalysis Science and Technology</i> , 2014, 4, 2091-2098.	4.1	21
153	Cryogenic cleavage used in gold substrate production. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 2265.	1.6	20
154	Electrochemical characterisation of patterned carbon nanotube electrodes on silane modified silicon. <i>Electrochimica Acta</i> , 2008, 53, 5653-5659.	5.2	20
155	Lateral heterogeneities in supported bilayers from pure and mixed phosphatidylethanolamine demonstrating hydrogen bonding capacity. <i>Biointerphases</i> , 2008, 3, 96-104.	1.6	20
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