

Andrew R Barron

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.

490
papers

14,021
citations

59
h-index

92
g-index

503
ext. papers

14,994
ext. citations

5.8
avg, IF

6.67
L-index

#	Paper	IF	Citations
490	Increased Electrical Conductivity of Carbon Nanotube Fibers by Thermal and Voltage Annealing. <i>Journal of Carbon Research</i> , 2022 , 8, 1	3.3	1
489	Superhydrophilic surface modification of fabric via coating with cysteic acid mineral oxide. <i>Applied Surface Science</i> , 2022 , 580, 152306	6.7	0
488	Overcoming mass transfer limitations in cross-linked polyethyleneimine-based adsorbents to enable selective CO ₂ capture at ambient temperature. <i>Materials Advances</i> , 2022 , 3, 3174-3191	3.3	0
487	Commercialization of single-source precursors: Applications, intellectual property, and technology transfer 2022 , 563-600		
486	Engineered nanocomposites in asphalt binders. <i>Nanotechnology Reviews</i> , 2022 , 11, 1047-1067	6.3	2
485	Facemasks and ferrous metallurgy: improving gasification reactivity of low-volatile coals using waste COVID-19 facemasks for ironmaking application.. <i>Scientific Reports</i> , 2022 , 12, 2693	4.9	2
484	The chemical suitability for recycling of zinc contaminated steelmaking by-product dusts: The case of the UK steel plant. <i>Resources, Conservation & Recycling Advances</i> , 2022 , 14, 200073		0
483	Foam Generation and Stability: Role of the Surfactant Structure and Asphaltene Aggregates. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 372-381	3.9	2
482	Summary of Field Trial Results of the Treatment of Contaminated Water Using Non-fouling Super Hydrophilic Functionalized Ceramic Membranes. <i>Advances in Science, Technology and Innovation</i> , 2022 , 121-129	0.3	
481	Effect of functionalized and unfunctionalized basic oxygen steelmaking slag on the growth of cereal wheat (<i>Triticum aestivum</i>). <i>Resources, Conservation & Recycling Advances</i> , 2022 , 15, 200092		
480	Effect of Applied Pressure on the Electrical Resistance of Carbon Nanotube Fibers. <i>Materials</i> , 2021 , 14,	3.5	3
479	Rheological, physicochemical, and microstructural properties of asphalt binder modified by fumed silica nanoparticles. <i>Scientific Reports</i> , 2021 , 11, 11455	4.9	9
478	Interplay between oxygen doping and ultra-microporosity improves the CO ₂ /N ₂ separation performance of carbons derived from aromatic polycarboxylates. <i>Carbon</i> , 2021 , 173, 989-1002	10.4	7
477	Facile and environmentally friendly synthesis of ultramicroporous carbon spheres: A significant improvement in CVD method. <i>Carbon</i> , 2021 , 171, 426-436	10.4	10
476	Groundwater Remediation of Volatile Organic Compounds Using Nanofiltration and Reverse Osmosis Membranes-A Field Study. <i>Membranes</i> , 2021 , 11,	3.8	2
475	Drastic enhancement of carbon dioxide adsorption in fluoroalkyl-modified poly(allylamine). <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10827-10837	13	4
474	Pressure dependent conduction of individual multi-walled carbon nanotubes: the effect of mechanical distortions. <i>Nanoscale Advances</i> , 2021 , 3, 643-646	5.1	1

473	The production of high value pig iron nuggets from steelmaking by-products DA thermodynamic evaluation. <i>Resources, Conservation and Recycling</i> , 2021 , 170, 105592	11.9	2
472	Oxidative synthesis of yellow photoluminescent carbon nanoribbons from carbon black. <i>Carbon</i> , 2021 , 183, 495-503	10.4	4
471	Controlled and permanent induced Fermi shifts and upwards band bending in ZnO nanorods by surface stripping with argon bombardment. <i>Materials Letters</i> , 2021 , 301, 130288	3.3	0
470	The application of amine-based materials for carbon capture and utilisation: an overarching view. <i>Materials Advances</i> , 2021 , 2, 5843-5880	3.3	5
469	Size dependent conduction characteristics of catalyst-multi-walled carbon nanotube junction. <i>Carbon Letters</i> , 2021 , 31, 1015-1021	2.3	
468	Hybrid Hydrocarbon/Fluorocarbon Nanoparticle Coatings for Environmentally Friendly Omniphobic Surfaces. <i>ACS Applied Nano Materials</i> , 2021 , 4, 13664-13673	5.6	2
467	Pyrometallurgical removal of zinc from basic oxygen steelmaking dust DA review of best available technology. <i>Resources, Conservation and Recycling</i> , 2020 , 157, 104746	11.9	13
466	Phase-field simulation of hydraulic fracturing with a revised fluid model and hybrid solver. <i>Engineering Fracture Mechanics</i> , 2020 , 229, 106928	4.2	11
465	Poly(octadecyl acrylate)-Grafted Multiwalled Carbon Nanotube Composites for Wearable Temperature Sensors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2288-2301	5.6	8
464	Controlling the wettability of plastic by thermally embedding coated aluminium oxide nanoparticles into the surface. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 45-53	9.3	11
463	New insights into the interactions between asphaltene and a low surface energy anionic surfactant under low and high brine salinity. <i>Journal of Colloid and Interface Science</i> , 2020 , 571, 307-317	9.3	10
462	Inducing upwards band bending by surface stripping ZnO nanowires with argon bombardment. <i>Nanotechnology</i> , 2020 , 31, 505705	3.4	1
461	Self-similar velocity profiles and mass transport of grains carried by fluid through a confined channel. <i>Physics of Fluids</i> , 2020 , 32, 113309	4.4	4
460	Enhancement of Multiwalled Carbon Nanotubes Electrical Conductivity Using Metal Nanoscale Copper Contacts and Its Implications for Carbon Nanotube-Enhanced Copper Conductivity. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18777-18783	3.8	5
459	Scalable synthesis of multi-substituted aryl-phosphonates: Exploring the limits of isoretical expansion and the synthesis of new triazene-based phosphonates. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2020 , 195, 231-244	1	1
458	Solvent-free microwave-assisted synthesis of tenorite nanoparticle-decorated multi-walled carbon nanotubes. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1121-1127	9.1	10
457	Understanding the effect of carbon nanotube functionalization on copper electrodeposition. <i>Journal of Applied Electrochemistry</i> , 2019 , 49, 731-741	2.6	4
456	Epoxy Cross-Linked Polyamine CO2 Sorbents Enhanced via Hydrophobic Functionalization. <i>Chemistry of Materials</i> , 2019 , 31, 4673-4684	9.6	19

455	The safe handling of bulk low-density nanomaterials. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	12
454	Analysis of commercial glasses with different strengthening treatments: Emphasis on the tin side, defects, structure connectivity and cracking behavior. <i>Journal of Non-Crystalline Solids</i> , 2019 , 518, 1-9	3.9	1
453	A New Class of Low Surface Energy Anionic Surfactant for Enhanced Oil Recovery. <i>Energy & Fuels</i> , 2019 , 33, 3162-3175	4.1	19
452	The recycling and reuse of steelmaking slags – A review. <i>Resources, Conservation and Recycling</i> , 2019 , 146, 244-255	11.9	92
451	Size and morphology dependent surface wetting based on hydrocarbon functionalized nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019 , 543, 328-334	9.3	12
450	The effects of vacuum annealing on the conduction characteristics of ZnO nanorods. <i>Materials Letters</i> , 2019 , 243, 144-147	3.3	11
449	Temperature-Induced Structural Transformations in Undoped and Eu-Doped Ruddlesden-Popper Phases SrSnO and SrSnO: Relation to the Impedance and Luminescence Behaviors. <i>Inorganic Chemistry</i> , 2019 , 58, 11410-11419	5.1	5
448	Electrodeposition of Cu@WCNT Composites. <i>Journal of Carbon Research</i> , 2019 , 5, 38	3.3	8
447	Comparison of hydrophobicity and durability of functionalized aluminium oxide nanoparticle coatings with magnetite nanoparticles-links between morphology and wettability. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 323-330	9.3	15
446	Experimental Measurement of Angular and Overlap Dependence of Conduction between Carbon Nanotubes of Identical Chirality and Diameter. <i>Nano Letters</i> , 2019 , 19, 4861-4865	11.5	11
445	Synergic Adsorption of H ₂ S Using High Surface Area Iron Oxide@Carbon Composites at Room Temperature. <i>Energy & Fuels</i> , 2019 , 33, 7509-7521	4.1	11
444	A new approach to enhancing the CO capture performance of defective UiO-66 via post-synthetic defect exchange. <i>Dalton Transactions</i> , 2019 , 48, 3349-3359	4.3	38
443	Electroless Deposition of Cu-SWCNT Composites. <i>Journal of Carbon Research</i> , 2019 , 5, 61	3.3	1
442	The State of HiPco Single-Walled Carbon Nanotubes in 2019. <i>Journal of Carbon Research</i> , 2019 , 5, 65	3.3	4
441	From Newspaper Substrate to Nanotubes – Analysis of Carbonized Soot Grown on Kaolin Sized Newsprint. <i>Journal of Carbon Research</i> , 2019 , 5, 66	3.3	1
440	Microwave treatment of a hot mill sludge from the steel industry: en route to recycling an industrial waste. <i>Journal of Cleaner Production</i> , 2019 , 207, 182-189	10.3	18
439	Investigation into the effects of surface stripping ZnO nanosheets. <i>Nanotechnology</i> , 2018 , 29, 165701	3.4	3
438	Reduction Kinetics of the Nanocluster [H _x PMo ₁₂ O ₄₀ ?H ₄ Mo ₇₂ Fe ₃₀ (O ₂ CMe) ₁₅ O ₂₅₄ (H ₂ O) ₉₈ -y(EtOH) _y]. <i>Journal of Cluster Science</i> , 2018 , 29, 325-335	3	2

437	Understanding the Activation of the Nanocluster [HxPMo12O40?H4Mo72Fe30(O2CMe)15O254(H2O)98-y(EtOH)y] for Low Temperature Growth of Carbon Nanotubes. <i>Journal of Cluster Science</i> , 2018 , 29, 431-441	3	2
436	Temperature dependence on the mass susceptibility and mass magnetization of superparamagnetic Mn ²⁺ ferrite nanoparticles as contrast agents for magnetic imaging of oil and gas reservoirs. <i>Journal of Experimental Nanoscience</i> , 2018 , 13, 107-118	1.9	8
435	Spatial and Contamination-Dependent Electrical Properties of Carbon Nanotubes. <i>Nano Letters</i> , 2018 , 18, 695-700	11.5	14
434	Hydration induced morphological change on proppant surfaces employing a calcium-silicate cement system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 537, 197-209	5.1	2
433	Propagation of a Plane Strain Hydraulic Fracture With a Fluid Lag in Permeable Rock. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	10
432	Catalytic Growth of Carbon Nanotubes by Direct Liquid Injection CVD Using the Nanocluster [HxPMo12O40?H4Mo72Fe30(O2CMe)15O254(H2O)98-y(EtOH)y]. <i>Journal of Carbon Research</i> , 2018 , 4, 17	3.3	4
431	Post-Synthetic Ligand Exchange in Zirconium-Based Metal-Organic Frameworks: Beware of The Defects!. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11706-11710	16.4	73
430	Post-Synthetic Ligand Exchange in Zirconium-Based Metal-Organic Frameworks: Beware of The Defects!. <i>Angewandte Chemie</i> , 2018 , 130, 11880-11884	3.6	2
429	Effect of raw and purified carbon nanotubes and iron oxide nanoparticles on the growth of wheatgrass prepared from the cotyledons of common wheat (<i>triticum aestivum</i>). <i>Environmental Science: Nano</i> , 2018 , 5, 103-114	7.1	10
428	Aqueous electromigration of single-walled carbon nanotubes and co-electromigration with copper ions. <i>Nanoscale</i> , 2018 , 10, 19628-19637	7.7	4
427	Investigation of the Reduction of a Molybdenum/Iron Molecular Nanocluster Single Source Precursor. <i>Inorganics</i> , 2018 , 6, 104	2.9	
426	Numerical investigation of the fluid lag during hydraulic fracturing. <i>Engineering Computations</i> , 2018 , 35, 2050-2077	1.4	11
425	Tunable Surface Properties of Aluminum Oxide Nanoparticles from Highly Hydrophobic to Highly Hydrophilic. <i>ACS Omega</i> , 2017 , 2, 2507-2514	3.9	30
424	Parametric optimisation for the fabrication of polyetherimide-sPEEK asymmetric membranes on a non-woven support layer. <i>Separation and Purification Technology</i> , 2017 , 186, 78-89	8.3	4
423	The effect of KOH concentration on chemical activation of porous carbon sorbents for carbon dioxide uptake and carbon dioxide/methane selectivity: the relative formation of micro- (2 nm) porosity. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 806-813	5.8	11
422	Nanostructured fusiform hydroxyapatite particles precipitated from aquaculture wastewater. <i>Chemosphere</i> , 2017 , 168, 1317-1323	8.4	8
421	Superhydrophilic Functionalization of Microfiltration Ceramic Membranes Enables Separation of Hydrocarbons from Frac and Produced Water. <i>Scientific Reports</i> , 2017 , 7, 12267	4.9	16
420	Overcoming Catalyst Residue Inhibition of the Functionalization of Single-Walled Carbon Nanotubes via the Billups-Birch Reduction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37972-37980	9.5	16

419	CO ₂ Capture Partner Molecules in Highly Loaded PEI Sorbents. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21772-21781	3.8	22
418	Understanding the Effect of Functional Groups on the Seeded Growth of Copper on Carbon Nanotubes for Optimizing Electrical Transmission. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27202-27217	9.5	7
417	A hybrid super hydrophilic ceramic membrane and carbon nanotube adsorption process for clean water production and heavy metal removal and recovery in remote locations. <i>Journal of Water Process Engineering</i> , 2017 , 19, 220-230	6.7	18
416	Easily Regenerated Readily Deployable Absorbent for Heavy Metal Removal from Contaminated Water. <i>Scientific Reports</i> , 2017 , 7, 6682	4.9	12
415	Surface sensitivity of four-probe STM resistivity measurements of bulk ZnO correlated to XPS. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 384001	1.8	5
414	Silica Nanoparticle Enhancement in the Efficiency of Surfactant Flooding of Heavy Oil in a Glass Micromodel. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8528-8534	3.9	51
413	Surface-initiated growth of copper using isonicotinic acid-functionalized aluminum oxide surfaces 2017 , 14, 195-205		5
412	Proppant immobilization facilitated by carbon nanotube mediated microwave treatment of polymer-proppant structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 513, 297-305	5.1	15
411	Optimizing Carbon Dioxide Uptake and Carbon Dioxide-Methane Selectivity of Oxygen-Doped Porous Carbon Prepared from Oxygen Containing Polymer Precursors. <i>ChemistrySelect</i> , 2017 , 2, 11959-11968	1.8	5
410	Effect of carbon nanotubes on calcium carbonate/calcium silicate phase and morphology. <i>Main Group Chemistry</i> , 2017 , 16, 57-65	0.6	3
409	Catalyst Residue and Oxygen Species Inhibition of the Formation of Hexahapto-Metal Complexes of Group 6 Metals on Single-Walled Carbon Nanotubes. <i>Journal of Carbon Research</i> , 2017 , 3, 17	3.3	17
408	Apparatus for Scalable Functionalization of Single-Walled Carbon Nanotubes via the Billups-Birch Reduction. <i>Journal of Carbon Research</i> , 2017 , 3, 19	3.3	5
407	Enhanced purification of carbon nanotubes by microwave and chlorine cleaning procedures. <i>RSC Advances</i> , 2016 , 6, 11895-11902	3.7	38
406	Branched Hydrocarbon Low Surface Energy Materials for Superhydrophobic Nanoparticle Derived Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 660-6	9.5	107
405	Assembly of porous hierarchical copolymers/resin proppants: New approaches to smart proppant immobilization via molecular anchors. <i>Journal of Colloid and Interface Science</i> , 2016 , 466, 275-83	9.3	7
404	Doping silicon nanocrystals and quantum dots. <i>Nanoscale</i> , 2016 , 8, 1733-45	7.7	58
403	The effect of concentration and post-deposition annealing on silica coated germanium quantum dot thin films grown by vertical deposition. <i>Main Group Chemistry</i> , 2016 , 15, 275-286	0.6	
402	Is the Formation of Poly-CO ₂ Stabilized by Lewis Base Moieties in N- and S-Doped Porous Carbon?. <i>Journal of Carbon Research</i> , 2016 , 2, 5	3.3	4

401	Carboxylation and Decarboxylation of Aluminum Oxide Nanoparticles Using Bifunctional Carboxylic Acids and Octylamine. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-8	3.2	14
400	CO2 Adsorption by para-Nitroaniline Sulfuric Acid-Derived Porous Carbon Foam. <i>Journal of Carbon Research</i> , 2016 , 2, 25	3.3	2
399	[60]Fullerene-peptides: bio-nano conjugates with structural and chemical diversity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 164-176	5.6	18
398	Water-structuring molecules and nanomaterials enhance radiofrequency heating in biologically relevant solutions. <i>Chemical Communications</i> , 2016 , 52, 12630-12633	5.8	10
397	Defining a performance map of porous carbon sorbents for high-pressure carbon dioxide uptake and carbon dioxide/methane selectivity. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14739-14751	13	25
396	Effect of spray-drying and cryo-milling on the CO2 absorption performance of C60 cross-linked polyethyleneimine. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4323-4329	13	13
395	Correlating Carbon Dioxide Capture and Chemical Changes in Pyrolyzed Polyethylenimine-C60. <i>Energy & Fuels</i> , 2015 , 29, 4479-4487	4.1	18
394	pH-responsive octylamine coupling modification of carboxylated aluminium oxide surfaces. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10052-10059	13	26
393	Polyethyleneimine functionalised nanocarbons for the efficient adsorption of carbon dioxide with a low temperature of regeneration. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 746-768	1.9	19
392	In-Situ Fabrication of a Self-Aligned Selective Emitter Silicon Solar Cell Using the Gold Top Contacts To Facilitate the Synthesis of a Nanostructured Black Silicon Antireflective Layer Instead of an External Metal Nanoparticle Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11802-14	9.5	5
391	Bi-phasic titanium dioxide nanoparticles doped with nitrogen and neodymium for enhanced photocatalysis. <i>Nanoscale</i> , 2015 , 7, 17735-44	7.7	11
390	Radiofrequency electric-field heating behaviors of highly enriched semiconducting and metallic single-walled carbon nanotubes. <i>Nano Research</i> , 2015 , 8, 2859-2870	10	16
389	Anatase/rutile bi-phasic titanium dioxide nanoparticles for photocatalytic applications enhanced by nitrogen doping and platinum nano-islands. <i>Journal of Colloid and Interface Science</i> , 2015 , 460, 29-35	9.3	21
388	Reagent control over the composition of mixed metal oxide nanoparticles. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 324-349	1.9	12
387	Towards a catalyst activity map regarding the nucleation and growth of single walled carbon nanotubes. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 66-76	1.9	6
386	Detection of magnetic nanoparticles against proppant and shale reservoir rocks. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 1028-1041	1.9	18
385	Synthesis and Characterization of Silver Nanoparticles for an Undergraduate Laboratory. <i>Journal of Chemical Education</i> , 2015 , 92, 339-344	2.4	33
384	Activation Effect of Fullerene C60 on the Carbon Dioxide Absorption Performance of Amine-Rich Polypropylenimine Dendrimers. <i>ChemSusChem</i> , 2015 , 8, 2572	8.3	1

383	Copper-complexed isonicotinic acid functionalized aluminum oxide nanoparticles. <i>Main Group Chemistry</i> , 2015 , 15, 1-15	0.6	5
382	Activation Effect of Fullerene C60 on the Carbon Dioxide Absorption Performance of Amine-Rich Polypropylenimine Dendrimers. <i>ChemSusChem</i> , 2015 , 8, 2635-44	8.3	12
381	Fullerene-based inhibitors of HIV-1 protease. <i>Journal of Peptide Science</i> , 2015 , 21, 862-70	2.1	25
380	Fabrication of anti-reflection coating layers for silicon solar cells by liquid phase deposition. <i>Main Group Chemistry</i> , 2015 , 14, 279-290	0.6	0
379	Issues Affecting the Synthetic Scalability of Ternary Metal Ferrite Nanoparticles. <i>Journal of Nanoparticles</i> , 2015 , 2015, 1-8		4
378	What is the reason for the anomalous C-substituent effects in the Lewis acid catalyzed thermal decomposition of [Me ₂ Al(EDR)] ₂ ?. <i>Main Group Chemistry</i> , 2015 , 15, 87-96	0.6	2
377	A microwave cured flux for the adhesion of ceramic particles using silica coated carbon nanotubes. <i>Carbon</i> , 2015 , 93, 774-781	10.4	9
376	Cost reduction in the solar industry. <i>Materials Today</i> , 2015 , 18, 2-3	21.8	14
375	Understanding the relative binding ability of hydroxyfullerene to divalent and trivalent metals. <i>Dalton Transactions</i> , 2015 , 44, 4380-8	4.3	15
374	Carbon Dioxide Absorption by Polyethylenimine-Functionalized Nanocarbons: A Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 878-889	3.9	27
373	Experiments towards size and dopant control of germanium quantum dots for solar applications. <i>AIMS Materials Science</i> , 2015 , 3, 1-21	1.9	3
372	Cross-linking amine-rich compounds into high performing selective CO ₂ absorbents. <i>Scientific Reports</i> , 2014 , 4, 7304	4.9	35
371	Automated method for determining the flow of surface functionalized nanoparticles through a hydraulically fractured mineral formation using plasmonic silver nanoparticles. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 220-31	4.3	2
370	Organic compounds in produced waters from shale gas wells. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 2237-48	4.3	110
369	Preparation and evaluation of polyethyleneimine-single walled carbon nanotube conjugates as vectors for pancreatic cancer treatment. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4740-4747	7.3	26
368	Anti-reflection layers fabricated by a one-step copper-assisted chemical etching with inverted pyramidal structures intermediate between texturing and nanopore-type black silicon. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12043	13	54
367	The interaction of carboxylic acids with aluminium oxides: journeying from a basic understanding of alumina nanoparticles to water treatment for industrial and humanitarian applications. <i>Dalton Transactions</i> , 2014 , 43, 8127-43	4.3	31
366	Fabrication and characteristics of black silicon for solar cell applications: An overview. <i>Materials Science in Semiconductor Processing</i> , 2014 , 25, 2-17	4.3	80

365	A study of cellulosic/silicate coated welding rods during breakage and cutting: Assessment of environmental and health exposure. <i>Main Group Chemistry</i> , 2014 , 13, 53-63	0.6	
364	Imbedding germanium quantum dots in silica by a modified StBer method. <i>Materials Science in Semiconductor Processing</i> , 2014 , 17, 7-12	4.3	5
363	Single walled carbon nanotube growth and chirality dependence on catalyst composition. <i>Nanoscale</i> , 2013 , 5, 9848-59	7.7	20
362	Nanopore-type black silicon anti-reflection layers fabricated by a one-step silver-assisted chemical etching. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9862-70	3.6	43
361	Catalytic epoxidation of C60 using Mo(O)2(acac)2/(t)BuOOH. <i>Dalton Transactions</i> , 2013 , 42, 2186-91	4.3	5
360	Small molecule capture and release from PEI-functionalized single walled carbon nanotubes with endoscopic ultrasound. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1461-1465	7.3	8
359	Wetting behavior and activity of catalyst supports in carbon nanotube carpet growth. <i>Nanoscale</i> , 2013 , 5, 2642-6	7.7	10
358	Complications pertaining to the detection and characterization of individual and embedded single walled carbon nanotubes by scanning electron microscopy. <i>Nanoscale</i> , 2013 , 5, 2790-7	7.7	2
357	Thin film CdSe/CuSe photovoltaic on a flexible single walled carbon nanotube substrate. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3930-8	3.6	16
356	Silica decorated TiO2 for virus inactivation in drinking water--simple synthesis method and mechanisms of enhanced inactivation kinetics. <i>Environmental Science & Technology</i> , 2013 , 47, 6463-70	10.3	55
355	The development of a process map for the growth of carbon nanomaterials from ferrocene by injection CVD. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14122	13	30
354	Single-walled carbon nanotubes: differential genotoxic potential associated with physico-chemical properties. <i>Nanotoxicology</i> , 2013 , 7, 144-56	5.3	37
353	SiO2 template-derived polyurethane and alumina nanoparticle-polyurethane lithium ion separator membranes. <i>Main Group Chemistry</i> , 2013 , 12, 49-56	0.6	1
352	Coating carbon nanotubes with lead sulfide and bismuth sulfide. <i>Main Group Chemistry</i> , 2013 , 12, 67-86	0.6	1
351	Thin films of silica imbedded silicon and germanium quantum dots by solution processing. <i>Materials Science in Semiconductor Processing</i> , 2012 , 15, 713-721	4.3	5
350	Alumoxane/ferroxane nanoparticles for the removal of viral pathogens: the importance of surface functionality to nanoparticle activity. <i>Nanoscale</i> , 2012 , 4, 5627-32	7.7	22
349	Effect of carbon nanotube-fullerene hybrid additive on P3HT:PCBM bulk-heterojunction organic photovoltaics. <i>Synthetic Metals</i> , 2012 , 162, 95-101	3.6	38
348	Overcoming the "coffee-stain" effect by compositional Marangoni-flow-assisted drop-drying. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6536-42	3.4	189

347	Using fluorescence quenching of single walled carbon nanotubes with metal ions as a probe of surfactant \cdot SWNT interactions. <i>Main Group Chemistry</i> , 2011 , 10, 89-104	0.6	3
346	A new functionalization strategy for oil/water separation membranes. <i>Journal of Membrane Science</i> , 2011 , 382, 107-115	9.6	76
345	Simple route to enhanced photocatalytic activity of p25 titanium dioxide nanoparticles by silica addition. <i>Environmental Science & Technology</i> , 2011 , 45, 1563-8	10.3	114
344	Unusual Co-Crystallization of both Monomeric and Dimeric Forms of Cu[PhN(py)quin]Cl ₂ . <i>Journal of Chemical Crystallography</i> , 2011 , 41, 654-663	0.5	3
343	Poly(vinylpyrrolidone)-stabilized silver nanoparticles for strained-silicon surface enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 2085-2088	2.3	2
342	Synthesis of calcium-silica composites: a route toward an in vitro model system for calcific band keratopathy precipitates. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 99, 173-83	5.4	5
341	Single walled carbon nanotubes (SWNTs) as templates for the growth of TiO ₂ : the effect of silicon in coverage and the positive and negative synergies for the photocatalytic degradation of Congo red dye. <i>New Journal of Chemistry</i> , 2011 , 35, 400-406	3.6	29
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