

Andrew I Minett

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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.

106
papers

7,675
citations

41
h-index

87
g-index

108
ext. papers

8,293
ext. citations

9.6
avg, IF

5.81
L-index

#	Paper	IF	Citations
106	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. <i>Advanced Materials</i> , 2011 , 23, 3944-8	24	888
105	Edge-enriched graphene quantum dots for enhanced photo-luminescence and supercapacitance. <i>Nanoscale</i> , 2014 , 6, 11988-94	7.7	372
104	BiVO(4)/CeO(2) nanocomposites with high visible-light-induced photocatalytic activity. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3718-23	9.5	348
103	Hierarchical assembly of graphene/polyaniline nanostructures to synthesize free-standing supercapacitor electrode. <i>Composites Science and Technology</i> , 2014 , 98, 1-8	8.6	314
102	Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles. <i>Advanced Functional Materials</i> , 2013 , 23, 5345-5354	15.6	303
101	Dichotomous adsorption behaviour of dyes on an amino-functionalised metal-organic framework, amino-MIL-101(Al). <i>Journal of Materials Chemistry A</i> , 2014 , 2, 193-203	13	295
100	High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage textiles. <i>ACS Nano</i> , 2014 , 8, 2456-66	16.7	290
99	Development of MoS ₂ /CNT Composite Thin Film from Layered MoS ₂ for Lithium Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 798-805	21.8	263
98	High-yield aqueous phase exfoliation of graphene for facile nanocomposite synthesis via emulsion polymerization. <i>Journal of Colloid and Interface Science</i> , 2013 , 410, 43-51	9.3	244
97	V ₂ O ₅ nanofibre sheet actuators. <i>Nature Materials</i> , 2003 , 2, 316-9	27	230
96	A review of techno-economic models for the retrofitting of conventional pulverised-coal power plants for post-combustion capture (PCC) of CO ₂ . <i>Energy and Environmental Science</i> , 2013 , 6, 25-40	35.4	210
95	Flexible, Aligned Carbon Nanotube/Conducting Polymer Electrodes for a Lithium-Ion Battery. <i>Chemistry of Materials</i> , 2007 , 19, 3595-3597	9.6	199
94	Carbon nanotube architectures as catalyst supports for proton exchange membrane fuel cells. <i>Energy and Environmental Science</i> , 2010 , 3, 1286	35.4	194
93	A New Raman Metric for the Characterisation of Graphene oxide and its Derivatives. <i>Scientific Reports</i> , 2016 , 6, 19491	4.9	174
92	Compositional effects of PEDOT-PSS/single walled carbon nanotube films on supercapacitor device performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15987		174
91	Grafting carbon nanotubes directly onto carbon fibers for superior mechanical stability: Towards next generation aerospace composites and energy storage applications. <i>Carbon</i> , 2016 , 96, 701-710	10.4	161
90	Direct Growth of Flexible Carbon Nanotube Electrodes. <i>Advanced Materials</i> , 2008 , 20, 566-570	24	153

89	Textile energy storage: Structural design concepts, material selection and future perspectives. <i>Energy Storage Materials</i> , 2016 , 3, 123-139	19.4	109
88	Interconnecting carbon nanotubes with an inorganic metal complex. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13694-5	16.4	105
87	Three dimensional cellular architecture of sulfur doped graphene: self-standing electrode for flexible supercapacitors, lithium ion and sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5290-5302	13	101
86	Self-Assembled N/S Codoped Flexible Graphene Paper for High Performance Energy Storage and Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2078-87	9.5	101
85	Carbon nanotube network modified carbon fibre paper for Li-ion batteries. <i>Energy and Environmental Science</i> , 2009 , 2, 393	35.4	99
84	Carbon nanotubes: their potential and pitfalls for bone tissue regeneration and engineering. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 1139-58	6	87
83	Doped graphene/Cu nanocomposite: A high sensitivity non-enzymatic glucose sensor for food. <i>Food Chemistry</i> , 2017 , 221, 751-759	8.5	83
82	Pyridinic and graphitic nitrogen-rich graphene for high-performance supercapacitors and metal-free bifunctional electrocatalysts for ORR and OER. <i>RSC Advances</i> , 2017 , 7, 17950-17958	3.7	82
81	Mesoporous hollow PtCu nanoparticles for electrocatalytic oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2391	13	78
80	Manganosite microwave exfoliated graphene oxide composites for asymmetric supercapacitor device applications. <i>Electrochimica Acta</i> , 2013 , 101, 99-108	6.7	75
79	Removal of natural organic matter in water using functionalised carbon nanotube buckypaper. <i>Carbon</i> , 2013 , 59, 160-166	10.4	70
78	Carbon nanotube nanoweb-bioelectrode for highly selective dopamine sensing. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 44-8	9.5	63
77	Biomolecules as selective dispersants for carbon nanotubes. <i>Carbon</i> , 2005 , 43, 1879-1884	10.4	62
76	Binding Kinetics and SWNT Bundle Dissociation in Low Concentration Polymer Nanotube Dispersions. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3446-3450	3.4	59
75	Carbon nanotubes acting like actuators. <i>Carbon</i> , 2002 , 40, 1735-1739	10.4	59
74	High flux and high selectivity carbon nanotube composite membranes for natural organic matter removal. <i>Separation and Purification Technology</i> , 2016 , 163, 109-119	8.3	58
73	Nitrogen doped graphene via thermal treatment of composite solid precursors as a high performance supercapacitor. <i>RSC Advances</i> , 2015 , 5, 30679-30686	3.7	53
72	Towards the Knittability of Graphene Oxide Fibres. <i>Scientific Reports</i> , 2015 , 5, 14946	4.9	53

71	MWNT/C/Mg _{1.03} Mn _{0.97} SiO ₄ hierarchical nanostructure for superior reversible magnesium ion storage. <i>Electrochemistry Communications</i> , 2011 , 13, 1143-1146	5.1	52
70	Selective Positioning and Density Control of Nanotubes within a Polymer Thin Film. <i>Nano Letters</i> , 2003 , 3, 1333-1337	11.5	51
69	Patterned Polymer Coatings Increase the Efficiency of Dew Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13676-13684	9.5	49
68	Characterization of an interaction between functionalized carbon nanotubes and an enzyme. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 209-13	1.3	47
67	Anisotropy in tribological performances of long aligned carbon nanotubes/polymer composites. <i>Carbon</i> , 2014 , 67, 38-47	10.4	42
66	Direct scattered growth of MWNT on Si for high performance anode material in Li-ion batteries. <i>Chemical Communications</i> , 2010 , 46, 9149-51	5.8	42
65	Nanotube actuators for nanomechanics. <i>Current Applied Physics</i> , 2002 , 2, 61-64	2.6	41
64	Relationship between nanotopographical alignment and stem cell fate with live imaging and shape analysis. <i>Scientific Reports</i> , 2016 , 6, 37909	4.9	41
63	EPR characterisation of platinum nanoparticle functionalised carbon nanotube hybrid materials. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 4135-41	3.6	40
62	Integrated High-Efficiency Pt/Carbon Nanotube Arrays for PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 671-677	21.8	39
61	In-situ direct grafting of graphene quantum dots onto carbon fibre by low temperature chemical synthesis for high performance flexible fabric supercapacitor. <i>Materials Today Communications</i> , 2017 , 10, 112-119	2.5	38
60	Hydrothermal functionalisation of single-walled carbon nanotubes. <i>Synthetic Metals</i> , 2004 , 142, 263-266	3.6	37
59	Carbon nanotube-based transducers for immunoassays. <i>Carbon</i> , 2009 , 47, 2337-2343	10.4	35
58	A new twist: controlled shape-shifting of silver nanoparticles from prisms to discs. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8294		35
57	Novel ACNT arrays based MEA structure-nano-Pt loaded ACNT/Nafion/ACNT for fuel cell applications. <i>Chemical Communications</i> , 2010 , 46, 4824-6	5.8	34
56	Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin. <i>Analytica Chimica Acta</i> , 1998 , 371, 39-48	6.6	34
55	Practical improvements for redox potential (EH) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ. <i>Analytica Chimica Acta</i> , 1998 , 367, 201-213	6.6	32
54	Boron-Functionalized Graphene Oxide-Organic Frameworks for Highly Efficient CO Capture. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 283-288	4.5	31

53	A Compact, Highly Efficient and Flexible Polymer Ultra-Wideband Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 1207-1210	3.8	31
52	Carbon Nanotube Based Electronic and Electrochemical Sensors. <i>Sensor Letters</i> , 2005 , 3, 183-193	0.9	31
51	Bimetallic Pt/Ni composites on ceria-doped alumina supports as catalysts in the aqueous-phase reforming of glycerol. <i>RSC Advances</i> , 2014 , 4, 18951-18960	3.7	29
50	Sensitive and selective dopamine determination in human serum with inkjet printed Nafion/MWCNT chips. <i>Electrochemistry Communications</i> , 2013 , 37, 32-35	5.1	29
49	The citrate-mediated shape evolution of transforming photomorphous silver nanoparticles. <i>Chemical Communications</i> , 2010 , 46, 7807-9	5.8	29
48	Nonenzymatic multispecies sensor based on Cu-Ni nanoparticle dispersion on doped graphene. <i>Electrochimica Acta</i> , 2017 , 224, 295-305	6.7	28
47	Effect of CeO ₂ addition to Al ₂ O ₃ supports for Pt catalysts on the aqueous-phase reforming of glycerol. <i>ChemSusChem</i> , 2013 , 6, 1006-13	8.3	28
46	Design and synthesis of stable supported-CaO sorbents for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4332	13	27
45	A quadrifunctional electrocatalyst of nickel/nickel oxide embedded N-graphene for oxygen reduction, oxygen evolution, hydrogen evolution and hydrogen peroxide oxidation reactions. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2081-2089	5.8	27
44	Characterization of Covalent Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9665-9668	3.4	26
43	Deciphering the Role of Quaternary N in O ₂ Reduction over Controlled N-Doped Carbon Catalysts. <i>Chemistry of Materials</i> , 2020 , 32, 1384-1392	9.6	25
42	Coupling conducting polymers and mediated electrochemical responses for the detection of Listeria. <i>Analytica Chimica Acta</i> , 2003 , 475, 37-45	6.6	24
41	Synergistically enhanced electrochemical (ORR) activity of graphene oxide using boronic acid as an interlayer spacer. <i>Chemical Communications</i> , 2013 , 49, 11068-70	5.8	23
40	Co-Doping of Activated Graphene for Synergistically Enhanced Electrocatalytic Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2015 , 8, 4040-8	8.3	21
39	Dispersion and characterization of arc discharge single-walled carbon nanotubes--towards conducting transparent films. <i>Nanoscale</i> , 2014 , 6, 3695-703	7.7	20
38	Modification of Single-Walled Carbon Nanotubes by Hydrothermal Treatment. <i>Chemistry of Materials</i> , 2003 , 15, 3314-3319	9.6	20
37	Selective Acetalization of Glycerol with Acetone Over Nickel Nanoparticles Supported on Multi-Walled Carbon Nanotubes. <i>Catalysis Letters</i> , 2014 , 144, 1009-1015	2.8	19
36	Open-Ended Aligned Carbon Nanotube Arrays Produced Using CO ₂ -Assisted Floating-Ferrocene Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14093-14097	3.8	19

35	Towards the demonstration of actuator properties of a single carbon nanotube. <i>Current Applied Physics</i> , 2001 , 1, 407-411	2.6	18
34	Advanced microwave-assisted production of hybrid electrodes for energy applications. <i>Energy and Environmental Science</i> , 2010 , 3, 1979	35.4	17
33	Polyol-assisted functionalization of carbon nanotubes— perspective. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8509	13	16
32	Hypothesis: bones toughness arises from the suppression of elastic waves. <i>Scientific Reports</i> , 2014 , 4, 7538	4.9	15
31	Mineral sequestration of CO ₂ using saprolite mine tailings in the presence of alkaline industrial wastes. <i>Journal of Cleaner Production</i> , 2018 , 188, 686-697	10.3	14
30	Performance enhancement of single-walled nanotube—microwave exfoliated graphene oxide composite electrodes using a stacked electrode configuration. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14835-14843	13	14
29	Pretreatment control of carbon nanotube array growth for gas separation: alignment and growth studied using microscopy and small-angle X-ray scattering. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3063-70	9.5	14
28	Localized growth of Pt on Pd as a bimetallic electrocatalyst with enhanced catalytic activity and durability for proton exchange membrane fuel cell. <i>Electrochemistry Communications</i> , 2013 , 34, 73-76	5.1	14
27	Tuning graphene for energy and environmental applications: Oxygen reduction reaction and greenhouse gas mitigation. <i>Journal of Power Sources</i> , 2016 , 328, 472-481	8.9	14
26	Facile fabrication of mesoporous CaO sorbents using simple salt as a pore template in a template-assisted and spray-drying synthesis method. <i>Chemical Engineering Journal</i> , 2016 , 291, 1-11	14.7	12
25	Microwave decoration of Pt nanoparticles on entangled 3D carbon nanotube architectures as PEM fuel cell cathode. <i>ChemSusChem</i> , 2012 , 5, 1233-40	8.3	12
24	Scalable solid-template reduction for designed reduced graphene oxide architectures. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7676-81	9.5	12
23	Liquid-Crystal-Mediated 3D Macrostructured Composite of Co/Co ₃ O ₄ Embedded in Graphene: Free-Standing Electrode for Efficient Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600386	3.1	11
22	N-doped reduced graphene oxide (rGO) wrapped carbon microfibers as binder-free electrodes for flexible fibre supercapacitors and sodium-ion batteries. <i>Journal of Energy Storage</i> , 2021 , 37, 102453	7.8	11
21	Comparison of the electrochemical behaviour of buckypaper and polymer-intercalated buckypaper electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 652, 52-59	4.1	10
20	Electrochemical investigation of carbon nanotube nanoweb architecture in biological media. <i>Electrochemistry Communications</i> , 2010 , 12, 1471-1474	5.1	10
19	A COMPOSITE FROM SOY OIL AND CARBON NANOTUBES. <i>International Journal of Nanoscience</i> , 2003 , 02, 185-194	0.6	10
18	3D copper-confined N-Doped graphene/carbon nanotubes network as high-performing lithium-ion battery anode. <i>Journal of Alloys and Compounds</i> , 2021 , 850, 156701	5.7	10

17	A dual soft-template synthesis of hollow mesoporous silica spheres decorated with Pt nanoparticles as a CO oxidation catalyst. <i>RSC Advances</i> , 2015 , 5, 97928-97933	3.7	9
16	Carbon-supported gas-cleaning catalysts enable syn gas methanation at atmospheric pressure. <i>Catalysis Science and Technology</i> , 2015 , 5, 515-524	5.5	9
15	Functionalising carbon nanotubes. <i>International Journal of Nanotechnology</i> , 2008 , 5, 331	1.5	7
14	Nanoarchitected Nitrogen-Doped Graphene/Carbon Nanotube as High Performance Electrodes for Solid State Supercapacitors, Capacitive Deionization, Li-Ion Battery, and Metal-Free Bifunctional Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	7
13	Nanocarbon-chlorophyll hybrids: Self assembly and photoresponse. <i>Carbon</i> , 2014 , 80, 746-754	10.4	6
12	Graphene Oxide: Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles (Adv. Funct. Mater. 43/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 5344-5344	15.6	5
11	A simple gas-solid route to functionalize ordered carbon. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2910-6	9.5	3
10	Loading dependency of 2D MoS ₂ nanosheets in the capacitance of 3D hybrid microfibre-based energy storage devices. <i>Carbon Trends</i> , 2021 , 5, 100097	0	3
9	High grafting strength from chemically bonded 2D layered material onto carbon microfibres for reinforced composites and ultra-long flexible cable electronic devices. <i>Materials Today Communications</i> , 2020 , 24, 100994	2.5	2
8	Separation of coiled carbon fibers from an alumina support by microwave-assisted digestion or sonication. <i>Separation and Purification Technology</i> , 2012 , 96, 248-255	8.3	2
7	Solid particles recirculation distribution in calcium looping post-combustion carbon capture. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 43, 161-171	4.2	1
6	Controlling The Position And Morphology of Nanotubes For Device Fabrication. <i>AIP Conference Proceedings</i> , 2004 ,	0	1
5	Characterisation of Single-walled Carbon Nanotube Bundle Dissociation in Amide Solvents. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
4	See the extracellular forest for the nanotrees. <i>Materials Today</i> , 2014 , 17, 43-44	21.8	
3	PEM Fuel Cells: Integrated High-Efficiency Pt/Carbon Nanotube Arrays for PEM Fuel Cells (Adv. Energy Mater. 4/2011). <i>Advanced Energy Materials</i> , 2011 , 1, 670-670	21.8	
2	Controlling the position and morphology of nanotubes within a polymer thin film. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 782, 1		
1	Controlled growth of arrays of straight and branched carbon nanotubes 2005 , 5824, 62		