

Ian A Kinloch

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.

117
papers

12,028
citations

49
h-index

109
g-index

121
ext. papers

13,930
ext. citations

8.7
avg, IF

6.77
L-index

#	Paper	IF	Citations
117	Silane-functionalized graphene nanoplatelets for silicone rubber nanocomposites. <i>Journal of Materials Science</i> , 2022 , 57, 2683-2696	4.3	2
116	Self-Assembled 1T-MoS ₂ /Functionalized Graphene Composite Electrodes for Supercapacitor Devices. <i>ACS Applied Energy Materials</i> , 2022 , 5, 61-70	6.1	5
115	Joule Heating and mechanical properties of epoxy/graphene based aerogel composite. <i>Composites Science and Technology</i> , 2022 , 218, 109199	8.6	1
114	Deformation of and Interfacial Stress Transfer in TiC MXene-Polymer Composites.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	1
113	Unlocking the energy storage potential of polypyrrole via electrochemical graphene oxide for high performance zinc-ion hybrid supercapacitors. <i>Journal of Power Sources</i> , 2021 , 516, 230663	8.9	3
112	Atmospheric Pressure Catalytic Vapor Deposition of Graphene on Liquid In and Cu-In Alloy Substrates. <i>Catalysts</i> , 2021 , 11, 1318	4	0
111	Fundamental Insights into Graphene Strain Sensing. <i>Nano Letters</i> , 2021 , 21, 833-839	11.5	6
110	Modulation of Charge Transport at Grain Boundaries in SrTiO ₃ : Toward a High Thermoelectric Power Factor at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11879-11890	9.5	12
109	Deformation and tearing of graphene-reinforced elastomer nanocomposites. <i>Composites Communications</i> , 2021 , 25, 100764	6.7	0
108	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. <i>Composites Science and Technology</i> , 2021 , 202, 108592	8.6	6
107	Realization of 3D epoxy resin/Ti ₃ C ₂ T _x MXene aerogel composites for low-voltage electrothermal heating. <i>2D Materials</i> , 2021 , 8, 025022	5.9	4
106	Ice-templated hybrid graphene oxide-graphene nanoplatelet lamellar architectures: tuning mechanical and electrical properties. <i>Nanotechnology</i> , 2021 , 32, 205601	3.4	4
105	Atmospheric Pressure Catalytic Vapor Deposition of Graphene on Liquid Sn and Cu-Sn Alloy Substrates. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
104	Unravelling the Mechanism of Rechargeable Aqueous Zn-MnO Batteries: Implementation of Charging Process by Electrodeposition of MnO. <i>ChemSusChem</i> , 2020 , 13, 4103-4110	8.3	30
103	Graphene-Enabled Adaptive Infrared Textiles. <i>Nano Letters</i> , 2020 , 20, 5346-5352	11.5	39
102	Laser Assisted Solution Synthesis of High Performance Graphene Supported Electrocatalysts. <i>Advanced Functional Materials</i> , 2020 , 30, 2001756	15.6	14
101	Anisotropic swelling of elastomers filled with aligned 2D materials. <i>2D Materials</i> , 2020 , 7, 025031	5.9	4

100	A Universal Electrolyte Formulation for the Electrodeposition of Pristine Carbon and Polypyrrole Composites for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13386-13399	9.5	21
99	Realising biaxial reinforcement via orientation-induced anisotropic swelling in graphene-based elastomers. <i>Nanoscale</i> , 2020 , 12, 3377-3386	7.7	4
98	Simultaneous Electrochemical Exfoliation and Chemical Functionalization of Graphene for Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 110531	3.9	5
97	Strain engineering in monolayer WS ₂ and WS ₂ nanocomposites. <i>2D Materials</i> , 2020 , 7, 045022	5.9	16
96	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. <i>Carbon</i> , 2020 , 157, 750-760	10.4	30
95	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. <i>Nanoscale</i> , 2020 , 12, 2228-2267	7.7	121
94	Patterned, morphing composites via maskless photo-click lithography. <i>Soft Matter</i> , 2020 , 16, 1270-1278	3.6	2
93	The formation mechanism of hexagonal MoC defects in CVD graphene grown on liquid copper. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2176-2180	3.6	7
92	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 411-422	6.1	21
91	High-Power Energy Storage from Carbon Electrodes Using Highly Acidic Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20701-20711	3.8	1
90	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3525-3534	4.3	20
89	Graphene/Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000429	6.4	8
88	Graphene and related materials in hierarchical fiber composites: Production techniques and key industrial benefits. <i>Composites Science and Technology</i> , 2020 , 185, 107848	8.6	20
87	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. <i>Composites Part B: Engineering</i> , 2019 , 178, 107506	10	14
86	Surface functionality analysis by Boehm titration of graphene nanoplatelets functionalized via a solvent-free cycloaddition reaction. <i>Nanoscale Advances</i> , 2019 , 1, 1432-1441	5.1	20
85	Copper/graphene composites: a review. <i>Journal of Materials Science</i> , 2019 , 54, 12236-12289	4.3	98
84	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. <i>Composites Science and Technology</i> , 2019 , 175, 60-68	8.6	33
83	Systematic Comparison of Graphene Materials for Supercapacitor Electrodes. <i>ChemistryOpen</i> , 2019 , 8, 418-428	2.3	20

82	Screen-Printing of a Highly Conductive Graphene Ink for Flexible Printed Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32225-32234	9.5	86
81	Interfacial stress transfer in strain engineered wrinkled and folded graphene. <i>2D Materials</i> , 2019 , 6, 045026	9.5	20
80	Graphene/Polyelectrolyte Layer-by-Layer Coatings for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5272-5281	5.6	23
79	Benchmarking of graphene-based materials: real commercial products versus ideal graphene. <i>2D Materials</i> , 2019 , 6, 025006	5.9	39
78	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10330-10338	9.5	38
77	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 110, 84-92	8.4	34
76	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. <i>Composites Science and Technology</i> , 2018 , 156, 95-102	8.6	43
75	Electrical percolation in graphene/polymer composites. <i>2D Materials</i> , 2018 , 5, 032003	5.9	181
74	NMR detects molecular interactions of graphene with aromatic and aliphatic hydrocarbons in water. <i>2D Materials</i> , 2018 , 5, 015003	5.9	12
73	Effect of functional groups on the agglomeration of graphene in nanocomposites. <i>Composites Science and Technology</i> , 2018 , 163, 116-122	8.6	34
72	Optimisation of electrolytic solvents for simultaneous electrochemical exfoliation and functionalisation of graphene with metal nanostructures. <i>Carbon</i> , 2018 , 128, 257-266	10.4	21
71	The mechanics of reinforcement of polymers by graphene nanoplatelets. <i>Composites Science and Technology</i> , 2018 , 154, 110-116	8.6	152
70	The chemical functionalization of graphene nanoplatelets through solvent-free reaction.. <i>RSC Advances</i> , 2018 , 8, 33564-33573	3.7	11
69	Influence of surfactants of different nature and chain length on the morphology, thermal stability and sheet resistance of graphene. <i>Soft Matter</i> , 2018 , 14, 6013-6023	3.6	13
68	Electrically conductive GNP/epoxy composites for out-of-autoclave thermoset curing through Joule heating. <i>Composites Science and Technology</i> , 2018 , 164, 304-312	8.6	33
67	A simple electrochemical route to metallic phase trilayer MoS ₂ : evaluation as electrocatalysts and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11316-11330	13	93
66	Enhanced Photoluminescence of Solution-Exfoliated Transition Metal Dichalcogenides by Laser Etching. <i>ACS Omega</i> , 2017 , 2, 738-745	3.9	11
65	Strain-induced phonon shifts in tungsten disulfide nanoplatelets and nanotubes. <i>2D Materials</i> , 2017 , 4, 015007	5.9	57

64	Single Stage Simultaneous Electrochemical Exfoliation and Functionalization of Graphene. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 710-721	9.5	52
63	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17446-17456	16.4	135
62	Mechanical properties of graphene and graphene-based nanocomposites. <i>Progress in Materials Science</i> , 2017 , 90, 75-127	42.2	1091
61	Interfacial and internal stress transfer in carbon nanotube based nanocomposites. <i>Journal of Materials Science</i> , 2016 , 51, 344-352	4.3	20
60	Dispersal of pristine graphene for biological studies. <i>RSC Advances</i> , 2016 , 6, 69551-69559	3.7	8
59	Pristine Graphene Aerogels by Room-Temperature Freeze Gelation. <i>Advanced Materials</i> , 2016 , 28, 7993-8000	8.0	100
58	Investigation of the Differential Capacitance of Highly Ordered Pyrolytic Graphite as a Model Material of Graphene. <i>Langmuir</i> , 2016 , 32, 11448-11455	4	33
57	Hybrid multifunctional graphene/glass-fibre polypropylene composites. <i>Composites Science and Technology</i> , 2016 , 137, 44-51	8.6	66
56	The role of interlayer adhesion in graphene oxide upon its reinforcement of nanocomposites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374, 20150283	3.3	18
55	Effect of the C/O ratio in graphene oxide materials on the reinforcement of epoxy-based nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 281-291	2.6	37
54	Effect of the orientation of graphene-based nanoplatelets upon the Young's modulus of nanocomposites. <i>Composites Science and Technology</i> , 2016 , 123, 125-133	8.6	107
53	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 2023-32	11.5	91
52	Mechanochemical Exfoliation of 2D Crystals in Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4465-4472	8.3	41
51	Nanoscale Mechanics of Graphene and Graphene Oxide in Composites: A Scientific and Technological Perspective. <i>Advanced Materials</i> , 2016 , 28, 6232-8	24	103
50	A study of conductive hydrogel composites of pH-responsive microgels and carbon nanotubes. <i>Soft Matter</i> , 2016 , 12, 4142-53	3.6	16
49	Using intra-microgel crosslinking to control the mechanical properties of doubly crosslinked microgels. <i>Soft Matter</i> , 2016 , 12, 6985-94	3.6	13
48	Mechanical Stability of Flexible Graphene-Based Displays. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22605-14	9.5	40
47	Deformation of wrinkled graphene. <i>ACS Nano</i> , 2015 , 9, 3917-25	16.7	120

46	Characterization of MoS ₂ -Graphene Composites for High-Performance Coin Cell Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17388-98	9.5	315
45	Thermoelectric Power Generation from Lanthanum Strontium Titanium Oxide at Room Temperature through the Addition of Graphene. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15898-908	8.5	123
44	Quantitative determination of the spatial orientation of graphene by polarized Raman spectroscopy. <i>Carbon</i> , 2015 , 88, 215-224	10.4	62
43	Mesoporous Vertical Co ₃ O ₄ Nanosheet Arrays on Nitrogen-Doped Graphene Foam with Enhanced Charge-Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22831-8	9.5	71
42	Graphene-based nanocomposites for structural and functional applications: using 2-dimensional materials in a 3-dimensional world. <i>2D Materials</i> , 2015 , 2, 030205	5.9	24
41	Graphene/elastomer nanocomposites. <i>Carbon</i> , 2015 , 95, 460-484	10.4	230
40	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
39	Electron transfer kinetics on natural crystals of MoS ₂ and graphite. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17844-53	3.6	50
38	Electrochemical exfoliation of graphite in quaternary ammonium-based deep eutectic solvents: a route for the mass production of graphene. <i>Nanoscale</i> , 2015 , 7, 11386-92	7.7	43
37	The effect of flake diameter on the reinforcement of few-layer graphene/BMMA composites. <i>Composites Science and Technology</i> , 2015 , 111, 17-22	8.6	51
36	How to get between the sheets: a review of recent works on the electrochemical exfoliation of graphene materials from bulk graphite. <i>Nanoscale</i> , 2015 , 7, 6944-56	7.7	254
35	Single stage electrochemical exfoliation method for the production of few-layer graphene via intercalation of tetraalkylammonium cations. <i>Carbon</i> , 2014 , 66, 340-350	10.4	182
34	Continuous electrochemical exfoliation of micrometer-sized graphene using synergistic ion intercalations and organic solvents. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1632-9	9.5	103
33	Few layer graphene-polypropylene nanocomposites: the role of flake diameter. <i>Faraday Discussions</i> , 2014 , 173, 379-90	3.6	36
32	Electron transfer kinetics on mono- and multilayer graphene. <i>ACS Nano</i> , 2014 , 8, 10089-100	16.7	132
31	Alkali reduction of graphene oxide in molten halide salts: production of corrugated graphene derivatives for high-performance supercapacitors. <i>ACS Nano</i> , 2014 , 8, 11225-33	16.7	96
30	High-yield electro-oxidative preparation of graphene oxide. <i>Chemical Communications</i> , 2014 , 50, 8402-4	5.8	54
29	Nitrogen-doped and crumpled graphene sheets with improved supercapacitance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19495-19499	13	55

28	On the controlled electrochemical preparation of R ₄ N ⁺ graphite intercalation compounds and their host structural deformation effects. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 730, 34-40	4.1	23
27	Coefficient of thermal expansion of carbon nanotubes measured by Raman spectroscopy. <i>Applied Physics Letters</i> , 2014 , 104, 051907	3.4	72
26	A study of physical and covalent hydrogels containing pH-responsive microgel particles and graphene oxide. <i>Langmuir</i> , 2014 , 30, 13384-93	4	12
25	The rheological behaviour of concentrated dispersions of graphene oxide. <i>Journal of Materials Science</i> , 2014 , 49, 6311-6320	4.3	68
24	Electrochemistry in a drop: a study of the electrochemical behaviour of mechanically exfoliated graphene on photoresist coated silicon substrate. <i>Chemical Science</i> , 2014 , 5, 582-589	9.4	43
23	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2014 , 24, 2865-2874	15.6	102
22	Graphene oxide and base-washed graphene oxide as reinforcements in PMMA nanocomposites. <i>Composites Science and Technology</i> , 2013 , 88, 158-164	8.6	63
21	Influence of gas phase equilibria on the chemical vapor deposition of graphene. <i>ACS Nano</i> , 2013 , 7, 3104-3117	16.7	49
20	Interfacial stress transfer in graphene oxide nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 456-63	9.5	129
19	Carbon in Polymer 2013 , 695-728		1
18	Optimizing the reinforcement of polymer-based nanocomposites by graphene. <i>ACS Nano</i> , 2012 , 6, 2086-2095	16.7	217
17	The mechanics of graphene nanocomposites: A review. <i>Composites Science and Technology</i> , 2012 , 72, 1459-1476	8.6	893
16	Production of carbon fibres from a pyrolysed and graphitised liquid crystalline cellulose fibre precursor. <i>Journal of Materials Science</i> , 2012 , 47, 5402-5410	4.3	56
15	Strain mapping in a graphene monolayer nanocomposite. <i>ACS Nano</i> , 2011 , 5, 3079-84	16.7	127
14	Electrochemical behavior of monolayer and bilayer graphene. <i>ACS Nano</i> , 2011 , 5, 8809-15	16.7	131
13	The real graphene oxide revealed: stripping the oxidative debris from the graphene-like sheets. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3173-7	16.4	485
12	Formation mechanism of peapod-derived double-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	28
11	Response to Comment on the Effect of Stress Transfer Within Double-Walled Carbon Nanotubes upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , 2010 , 22, 1180-1181	24	3

10	Interfacial stress transfer in a graphene monolayer nanocomposite. <i>Advanced Materials</i> , 2010 , 22, 2694-724	74	465
9	The Effect of Stress Transfer Within Double-Walled Carbon Nanotubes Upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , 2009 , 21, 3591-3595	24	64
8	Enzyme-activated surfactants for dispersion of carbon nanotubes. <i>Small</i> , 2009 , 5, 587-90	11	53
7	A study of the dynamic interaction of surfactants with graphite and carbon nanotubes using Fmoc-amino acids as a model system. <i>Langmuir</i> , 2009 , 25, 11760-7	4	28
6	Hydroxyapatite/Carbon Nanotube Composites for Biomedical Applications: A Review. <i>International Journal of Applied Ceramic Technology</i> , 2007 , 4, 1-13	2	303
5	Evaluation and identification of electrical and thermal conduction mechanisms in carbon nanotube/epoxy composites. <i>Polymer</i> , 2006 , 47, 2036-2045	3.9	916
4	Production of aligned carbon nanotubes by the CVD injection method. <i>Physica B: Condensed Matter</i> , 2002 , 323, 339-340	2.8	65
3	A rheological study of concentrated aqueous nanotube dispersions. <i>Polymer</i> , 2002 , 43, 7483-7491	3.9	144
2	Effect of graphene nanoplatelets on the mechanical and gas barrier properties of woven carbon fibre/epoxy composites. <i>Journal of Materials Science</i> , 1	4.3	2
1	A Review on Printing of Responsive Smart and 4D Structures Using 2D Materials. <i>Advanced Materials Technologies</i> , 2200025	6.8	1