

# Ian A Kinloch

## List of Publications by Citations

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117  
papers

12,028  
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49  
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109  
g-index

121  
ext. papers

13,930  
ext. citations

8.7  
avg, IF

6.77  
L-index

#	Paper	IF	Citations
117	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , <b>2015</b> , 7, 4598-810	7.7	2015
116	Mechanical properties of graphene and graphene-based nanocomposites. <i>Progress in Materials Science</i> , <b>2017</b> , 90, 75-127	42.2	1091
115	Evaluation and identification of electrical and thermal conduction mechanisms in carbon nanotube/epoxy composites. <i>Polymer</i> , <b>2006</b> , 47, 2036-2045	3.9	916
114	The mechanics of graphene nanocomposites: A review. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1459-1476	8.6	893
113	The real graphene oxide revealed: stripping the oxidative debris from the graphene-like sheets. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3173-7	16.4	485
112	Interfacial stress transfer in a graphene monolayer nanocomposite. <i>Advanced Materials</i> , <b>2010</b> , 22, 2694-74	7.4	465
111	Characterization of MoS <sub>2</sub> -Graphene Composites for High-Performance Coin Cell Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17388-98	9.5	315
110	Hydroxyapatite/Carbon Nanotube Composites for Biomedical Applications: A Review. <i>International Journal of Applied Ceramic Technology</i> , <b>2007</b> , 4, 1-13	2	303
109	How to get between the sheets: a review of recent works on the electrochemical exfoliation of graphene materials from bulk graphite. <i>Nanoscale</i> , <b>2015</b> , 7, 6944-56	7.7	254
108	Graphene/elastomer nanocomposites. <i>Carbon</i> , <b>2015</b> , 95, 460-484	10.4	230
107	Optimizing the reinforcement of polymer-based nanocomposites by graphene. <i>ACS Nano</i> , <b>2012</b> , 6, 2086-95	9.7	217
106	Single stage electrochemical exfoliation method for the production of few-layer graphene via intercalation of tetraalkylammonium cations. <i>Carbon</i> , <b>2014</b> , 66, 340-350	10.4	182
105	Electrical percolation in graphene/polymer composites. <i>2D Materials</i> , <b>2018</b> , 5, 032003	5.9	181
104	The mechanics of reinforcement of polymers by graphene nanoplatelets. <i>Composites Science and Technology</i> , <b>2018</b> , 154, 110-116	8.6	152
103	A rheological study of concentrated aqueous nanotube dispersions. <i>Polymer</i> , <b>2002</b> , 43, 7483-7491	3.9	144
102	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17446-17456	16.4	135
101	Electron transfer kinetics on mono- and multilayer graphene. <i>ACS Nano</i> , <b>2014</b> , 8, 10089-100	16.7	132

100	Electrochemical behavior of monolayer and bilayer graphene. <i>ACS Nano</i> , <b>2011</b> , 5, 8809-15	16.7	131
99	Interfacial stress transfer in graphene oxide nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 456-63	9.5	129
98	Strain mapping in a graphene monolayer nanocomposite. <i>ACS Nano</i> , <b>2011</b> , 5, 3079-84	16.7	127
97	Thermoelectric Power Generation from Lanthanum Strontium Titanium Oxide at Room Temperature through the Addition of Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15898-905	9.5	123
96	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. <i>Nanoscale</i> , <b>2020</b> , 12, 2228-2267	7.7	121
95	Deformation of wrinkled graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 3917-25	16.7	120
94	Effect of the orientation of graphene-based nanoplatelets upon the Young's modulus of nanocomposites. <i>Composites Science and Technology</i> , <b>2016</b> , 123, 125-133	8.6	107
93	Continuous electrochemical exfoliation of micrometer-sized graphene using synergistic ion intercalations and organic solvents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1632-9	9.5	103
92	Nanoscale Mechanics of Graphene and Graphene Oxide in Composites: A Scientific and Technological Perspective. <i>Advanced Materials</i> , <b>2016</b> , 28, 6232-8	24	103
91	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2865-2874	15.6	102
90	Pristine Graphene Aerogels by Room-Temperature Freeze Gelation. <i>Advanced Materials</i> , <b>2016</b> , 28, 7993-8000	24	100
89	Copper/graphene composites: a review. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 12236-12289	4.3	98
88	Alkali reduction of graphene oxide in molten halide salts: production of corrugated graphene derivatives for high-performance supercapacitors. <i>ACS Nano</i> , <b>2014</b> , 8, 11225-33	16.7	96
87	A simple electrochemical route to metallic phase trilayer MoS <sub>2</sub> : evaluation as electrocatalysts and supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11316-11330	13	93
86	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 2023-32	11.5	91
85	Screen-Printing of a Highly Conductive Graphene Ink for Flexible Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32225-32234	9.5	86
84	Coefficient of thermal expansion of carbon nanotubes measured by Raman spectroscopy. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 051907	3.4	72
83	Mesoporous Vertical Co <sub>3</sub> O <sub>4</sub> Nanosheet Arrays on Nitrogen-Doped Graphene Foam with Enhanced Charge-Storage Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22831-8	9.5	71

82	The rheological behaviour of concentrated dispersions of graphene oxide. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6311-6320	4.3	68
81	Hybrid multifunctional graphene/glass-fibre polypropylene composites. <i>Composites Science and Technology</i> , <b>2016</b> , 137, 44-51	8.6	66
80	Production of aligned carbon nanotubes by the CVD injection method. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 323, 339-340	2.8	65
79	The Effect of Stress Transfer Within Double-Walled Carbon Nanotubes Upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , <b>2009</b> , 21, 3591-3595	24	64
78	Graphene oxide and base-washed graphene oxide as reinforcements in PMMA nanocomposites. <i>Composites Science and Technology</i> , <b>2013</b> , 88, 158-164	8.6	63
77	Quantitative determination of the spatial orientation of graphene by polarized Raman spectroscopy. <i>Carbon</i> , <b>2015</b> , 88, 215-224	10.4	62
76	Strain-induced phonon shifts in tungsten disulfide nanoplatelets and nanotubes. <i>2D Materials</i> , <b>2017</b> , 4, 015007	5.9	57
75	Production of carbon fibres from a pyrolysed and graphitised liquid crystalline cellulose fibre precursor. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5402-5410	4.3	56
74	Nitrogen-doped and crumpled graphene sheets with improved supercapacitance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19495-19499	13	55
73	High-yield electro-oxidative preparation of graphene oxide. <i>Chemical Communications</i> , <b>2014</b> , 50, 8402-4	5.8	54
72	Enzyme-activated surfactants for dispersion of carbon nanotubes. <i>Small</i> , <b>2009</b> , 5, 587-90	11	53
71	Single Stage Simultaneous Electrochemical Exfoliation and Functionalization of Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 710-721	9.5	52
70	The effect of flake diameter on the reinforcement of few-layer graphene/PMMA composites. <i>Composites Science and Technology</i> , <b>2015</b> , 111, 17-22	8.6	51
69	Electron transfer kinetics on natural crystals of MoS <sub>2</sub> and graphite. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17844-53	3.6	50
68	Influence of gas phase equilibria on the chemical vapor deposition of graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 3104-3117	4.7	49
67	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. <i>Composites Science and Technology</i> , <b>2018</b> , 156, 95-102	8.6	43
66	Electrochemistry in a drop: a study of the electrochemical behaviour of mechanically exfoliated graphene on photoresist coated silicon substrate. <i>Chemical Science</i> , <b>2014</b> , 5, 582-589	9.4	43
65	Electrochemical exfoliation of graphite in quaternary ammonium-based deep eutectic solvents: a route for the mass production of graphene. <i>Nanoscale</i> , <b>2015</b> , 7, 11386-92	7.7	43

64	Mechanochemical Exfoliation of 2D Crystals in Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4465-4472	8.3	41
63	Mechanical Stability of Flexible Graphene-Based Displays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22605-14	9.5	40
62	Graphene-Enabled Adaptive Infrared Textiles. <i>Nano Letters</i> , <b>2020</b> , 20, 5346-5352	11.5	39
61	Benchmarking of graphene-based materials: real commercial products versus ideal graphene. <i>2D Materials</i> , <b>2019</b> , 6, 025006	5.9	39
60	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10330-10338	9.5	38
59	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> , <b>2016</b> , 54, 281-291	2.6	37
58	Few layer graphene-polypropylene nanocomposites: the role of flake diameter. <i>Faraday Discussions</i> , <b>2014</b> , 173, 379-90	3.6	36
57	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 110, 84-92	8.4	34
56	Effect of functional groups on the agglomeration of graphene in nanocomposites. <i>Composites Science and Technology</i> , <b>2018</b> , 163, 116-122	8.6	34
55	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. <i>Composites Science and Technology</i> , <b>2019</b> , 175, 60-68	8.6	33
54	Investigation of the Differential Capacitance of Highly Ordered Pyrolytic Graphite as a Model Material of Graphene. <i>Langmuir</i> , <b>2016</b> , 32, 11448-11455	4	33
53	Electrically conductive GNP/epoxy composites for out-of-autoclave thermoset curing through Joule heating. <i>Composites Science and Technology</i> , <b>2018</b> , 164, 304-312	8.6	33
52	Unravelling the Mechanism of Rechargeable Aqueous Zn-MnO Batteries: Implementation of Charging Process by Electrodeposition of MnO. <i>ChemSusChem</i> , <b>2020</b> , 13, 4103-4110	8.3	30
51	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. <i>Carbon</i> , <b>2020</b> , 157, 750-760	10.4	30
50	Formation mechanism of peapod-derived double-walled carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	28
49	A study of the dynamic interaction of surfactants with graphite and carbon nanotubes using Fmoc-amino acids as a model system. <i>Langmuir</i> , <b>2009</b> , 25, 11760-7	4	28
48	Graphene-based nanocomposites for structural and functional applications: using 2-dimensional materials in a 3-dimensional world. <i>2D Materials</i> , <b>2015</b> , 2, 030205	5.9	24
47	Graphene/Polyelectrolyte Layer-by-Layer Coatings for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5272-5281	5.6	23

46	On the controlled electrochemical preparation of R <sub>4</sub> N <sup>+</sup> graphite intercalation compounds and their host structural deformation effects. <i>Journal of Electroanalytical Chemistry</i> , <b>2014</b> , 730, 34-40	4.1	23
45	A Universal Electrolyte Formulation for the Electrodeposition of Pristine Carbon and Polypyrrole Composites for Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13386-13399	9.5	21
44	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 411-422	6.1	21
43	Optimisation of electrolytic solvents for simultaneous electrochemical exfoliation and functionalisation of graphene with metal nanostructures. <i>Carbon</i> , <b>2018</b> , 128, 257-266	10.4	21
42	Interfacial and internal stress transfer in carbon nanotube based nanocomposites. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 344-352	4.3	20
41	Surface functionality analysis by Boehm titration of graphene nanoplatelets functionalized via a solvent-free cycloaddition reaction. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1432-1441	5.1	20
40	Systematic Comparison of Graphene Materials for Supercapacitor Electrodes. <i>ChemistryOpen</i> , <b>2019</b> , 8, 418-428	2.3	20
39	Interfacial stress transfer in strain engineered wrinkled and folded graphene. <i>2D Materials</i> , <b>2019</b> , 6, 045026	5.9	20
38	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 3525-3534	4.3	20
37	Graphene and related materials in hierarchical fiber composites: Production techniques and key industrial benefits. <i>Composites Science and Technology</i> , <b>2020</b> , 185, 107848	8.6	20
36	The role of interlayer adhesion in graphene oxide upon its reinforcement of nanocomposites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374, 20150283	2.3	18
35	Strain engineering in monolayer WS <sub>2</sub> and WS <sub>2</sub> nanocomposites. <i>2D Materials</i> , <b>2020</b> , 7, 045022	5.9	16
34	A study of conductive hydrogel composites of pH-responsive microgels and carbon nanotubes. <i>Soft Matter</i> , <b>2016</b> , 12, 4142-53	3.6	16
33	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 178, 107506	10	14
32	Laser Assisted Solution Synthesis of High Performance Graphene Supported Electrocatalysts. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001756	15.6	14
31	Using intra-microgel crosslinking to control the mechanical properties of doubly crosslinked microgels. <i>Soft Matter</i> , <b>2016</b> , 12, 6985-94	3.6	13
30	Influence of surfactants of different nature and chain length on the morphology, thermal stability and sheet resistance of graphene. <i>Soft Matter</i> , <b>2018</b> , 14, 6013-6023	3.6	13
29	NMR detects molecular interactions of graphene with aromatic and aliphatic hydrocarbons in water. <i>2D Materials</i> , <b>2018</b> , 5, 015003	5.9	12

28	A study of physical and covalent hydrogels containing pH-responsive microgel particles and graphene oxide. <i>Langmuir</i> , <b>2014</b> , 30, 13384-93	4	12
27	Modulation of Charge Transport at Grain Boundaries in SrTiO: Toward a High Thermoelectric Power Factor at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11879-11890	9.5	12
26	Enhanced Photoluminescence of Solution-Exfoliated Transition Metal Dichalcogenides by Laser Etching. <i>ACS Omega</i> , <b>2017</b> , 2, 738-745	3.9	11
25	The chemical functionalization of graphene nanoplatelets through solvent-free reaction.. <i>RSC Advances</i> , <b>2018</b> , 8, 33564-33573	3.7	11
24	Dispersal of pristine graphene for biological studies. <i>RSC Advances</i> , <b>2016</b> , 6, 69551-69559	3.7	8
23	GraphenePolyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000429	6.4	8
22	The formation mechanism of hexagonal MoC defects in CVD graphene grown on liquid copper. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2176-2180	3.6	7
21	Fundamental Insights into Graphene Strain Sensing. <i>Nano Letters</i> , <b>2021</b> , 21, 833-839	11.5	6
20	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. <i>Composites Science and Technology</i> , <b>2021</b> , 202, 108592	8.6	6
19	Self-Assembled 1T-MoS <sub>2</sub> /Functionalized Graphene Composite Electrodes for Supercapacitor Devices. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 61-70	6.1	5
18	Simultaneous Electrochemical Exfoliation and Chemical Functionalization of Graphene for Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 110531	3.9	5
17	Anisotropic swelling of elastomers filled with aligned 2D materials. <i>2D Materials</i> , <b>2020</b> , 7, 025031	5.9	4
16	Realising biaxial reinforcement via orientation-induced anisotropic swelling in graphene-based elastomers. <i>Nanoscale</i> , <b>2020</b> , 12, 3377-3386	7.7	4
15	Realization of 3D epoxy resin/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene aerogel composites for low-voltage electrothermal heating. <i>2D Materials</i> , <b>2021</b> , 8, 025022	5.9	4
14	Ice-templated hybrid graphene oxide-graphene nanoplatelet lamellar architectures: tuning mechanical and electrical properties. <i>Nanotechnology</i> , <b>2021</b> , 32, 205601	3.4	4
13	Response to Comment on the Effect of Stress Transfer Within Double-Walled Carbon Nanotubes upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , <b>2010</b> , 22, 1180-1181	24	3
12	Unlocking the energy storage potential of polypyrrole via electrochemical graphene oxide for high performance zinc-ion hybrid supercapacitors. <i>Journal of Power Sources</i> , <b>2021</b> , 516, 230663	8.9	3
11	Atmospheric Pressure Catalytic Vapor Deposition of Graphene on Liquid Sn and Cu-Sn Alloy Substrates. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2

10	Silane-functionalized graphene nanoplatelets for silicone rubber nanocomposites. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 2683-2696	4.3	2
9	Patterned, morphing composites via maskless photo-click lithography. <i>Soft Matter</i> , <b>2020</b> , 16, 1270-1278	3.6	2
8	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
7	Joule Heating and mechanical properties of epoxy/graphene based aerogel composite. <i>Composites Science and Technology</i> , <b>2022</b> , 218, 109199	8.6	1
6	Carbon in Polymer <b>2013</b> , 695-728		1
5	High-Power Energy Storage from Carbon Electrodes Using Highly Acidic Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 20701-20711	3.8	1
4	Deformation of and Interfacial Stress Transfer in TiC MXene-Polymer Composites.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	1
3	A Review on Printing of Responsive Smart and 4D Structures Using 2D Materials. <i>Advanced Materials Technologies</i> , 2200025	6.8	1
2	Atmospheric Pressure Catalytic Vapor Deposition of Graphene on Liquid In and Cu-In Alloy Substrates. <i>Catalysts</i> , <b>2021</b> , 11, 1318	4	0
1	Deformation and tearing of graphene-reinforced elastomer nanocomposites. <i>Composites Communications</i> , <b>2021</b> , 25, 100764	6.7	0