

Keith R Paton

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7324548/publications.pdf>

Version: 2024-02-01

23
papers

3,543
citations

516710

16
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

5998
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014, 13, 624-630.	27.5	1,958
2	Large-Scale Production of Size-Controlled MoS ₂ Nanosheets by Shear Exfoliation. <i>Chemistry of Materials</i> , 2015, 27, 1129-1139.	6.7	389
3	Turbulence-assisted shear exfoliation of graphene using household detergent and a kitchen blender. <i>Nanoscale</i> , 2014, 6, 11810-11819.	5.6	241
4	Spectroscopic metrics allow in situ measurement of mean size and thickness of liquid-exfoliated few-layer graphene nanosheets. <i>Nanoscale</i> , 2016, 8, 4311-4323.	5.6	194
5	Reinforcement in melt-processed polymer-graphene composites at extremely low graphene loading level. <i>Carbon</i> , 2014, 78, 243-249.	10.3	136
6	Efficient microwave energy absorption by carbon nanotubes. <i>Carbon</i> , 2008, 46, 1935-1941.	10.3	112
7	Biological recognition of graphene nanoflakes. <i>Nature Communications</i> , 2018, 9, 1577.	12.8	75
8	Improving the fracture toughness properties of epoxy using graphene nanoplatelets at low filler content. <i>Nanocomposites</i> , 2017, 3, 85-96.	4.2	74
9	Enhancement of Fracture Toughness of Epoxy Nanocomposites by Combining Nanotubes and Nanosheets as Fillers. <i>Materials</i> , 2017, 10, 1179.	2.9	66
10	Ballistic impact behaviour of glass fibre reinforced polymer composite with 1D/2D nanomodified epoxy matrices. <i>Composites Part B: Engineering</i> , 2019, 167, 497-506.	12.0	51
11	Extreme mechanical reinforcement in graphene oxide based thin-film nanocomposites via covalently tailored nanofiller matrix compatibilization. <i>Carbon</i> , 2017, 114, 367-376.	10.3	46
12	Production of few-layer graphene by microfluidization. <i>Materials Research Express</i> , 2017, 4, 025604.	1.6	41
13	Relating the optical absorption coefficient of nanosheet dispersions to the intrinsic monolayer absorption. <i>Carbon</i> , 2016, 107, 733-738.	10.3	35
14	Determining the Level and Location of Functional Groups on Few-Layer Graphene and Their Effect on the Mechanical Properties of Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13481-13493.	8.0	27
15	On the extent of fracture toughness transfer from 1D/2D nanomodified epoxy matrices to glass fibre composites. <i>Journal of Materials Science</i> , 2020, 55, 4717-4733.	3.7	24
16	Gas physisorption measurements as a quality control tool for the properties of graphene/graphite powders. <i>Carbon</i> , 2020, 167, 585-595.	10.3	16
17	Interplay between oxidative stress and endoplasmic reticulum stress mediated- autophagy in unfunctionalised few-layer graphene-exposed macrophages. <i>2D Materials</i> , 2018, 5, 045033.	4.4	15
18	Terahertz time-domain spectroscopy as a novel metrology tool for liquid-phase exfoliated few-layer graphene. <i>Nanotechnology</i> , 2019, 30, 025709.	2.6	10

#	ARTICLE	IF	CITATIONS
19	Using nuclear magnetic resonance proton relaxation to probe the surface chemistry of carbon 2D materials. <i>Nanoscale</i> , 2021, 13, 6389-6393.	5.6	8
20	Rapid monitoring of graphene exfoliation using NMR proton relaxation. <i>Nanoscale</i> , 2021, 13, 14518-14524.	5.6	7
21	International interlaboratory comparison of Raman spectroscopic analysis of CVD-grown graphene. <i>2D Materials</i> , 2022, 9, 035010.	4.4	7
22	Highly Conductive Graphene and Polyelectrolyte Multilayer Thin Films Produced From Aqueous Suspension. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1790-1794.	3.9	6
23	Gas Cluster Ion Beam Cleaning of CVD-Grown Graphene for Use in Electronic Device Fabrication. <i>ACS Applied Nano Materials</i> , 2021, 4, 5187-5197.	5.0	5