

Shane Bergin

List of Publications by Citations

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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.

29
papers

7,910
citations

16
h-index

30
g-index

30
ext. papers

8,617
ext. citations

6.9
avg, IF

4.88
L-index

#	Paper	IF	Citations
29	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. <i>Science</i> , 2011 , 331, 568-71	33.3	5221
28	Solvent exfoliation of transition metal dichalcogenides: dispersibility of exfoliated nanosheets varies only weakly between compounds. <i>ACS Nano</i> , 2012 , 6, 3468-80	16.7	535
27	Measurement of multicomponent solubility parameters for graphene facilitates solvent discovery. <i>Langmuir</i> , 2010 , 26, 3208-13	4	481
26	Quantitative Evaluation of Surfactant-stabilized Single-walled Carbon Nanotubes: Dispersion Quality and Its Correlation with Zeta Potential. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10692-10699	3.8	315
25	Debundling of single-walled nanotubes by dilution: observation of large populations of individual nanotubes in amide solvent dispersions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15708-18	3.4	302
24	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , 2008 , 20, 1876-1881	24	299
23	Multicomponent solubility parameters for single-walled carbon nanotube-solvent mixtures. <i>ACS Nano</i> , 2009 , 3, 2340-50	16.7	298
22	New Solvents for Nanotubes: Approaching the Dispersibility of Surfactants. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 231-237	3.8	101
21	Large Populations of Individual Nanotubes in Surfactant-Based Dispersions without the Need for Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 972-977	3.8	68
20	High Quality Dispersions of Functionalized Single Walled Nanotubes at High Concentration. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3519-3524	3.8	55
19	Exfoliation in ecstasy: liquid crystal formation and concentration-dependent debundling observed for single-wall nanotubes dispersed in the liquid drug γ -butyrolactone. <i>Nanotechnology</i> , 2007 , 18, 455705	3.4	43
18	Fabrication of stable dispersions containing up to 70% individual carbon nanotubes in a common organic solvent. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3058-3062	1.3	37
17	Imaging methods for determining uptake and toxicity of carbon nanotubes in vitro and in vivo. <i>Nanomedicine</i> , 2011 , 6, 849-65	5.6	31
16	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. <i>Biomacromolecules</i> , 2016 , 17, 1845-53	6.9	25
15	Differentiating Defect and Basal Plane Contributions to the Surface Energy of Graphite Using Inverse Gas Chromatography. <i>Chemistry of Materials</i> , 2016 , 28, 6355-6366	9.6	21
14	Effects of Ambient Conditions on Solvent Nanotube Dispersions: Exposure to Water and Temperature Variation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1260-1266	3.8	16
13	Using solution thermodynamics to describe the dispersion of rod-like solutes: application to dispersions of carbon nanotubes in organic solvents. <i>Nanotechnology</i> , 2012 , 23, 265604	3.4	15

12	The dependence of the measured surface energy of graphene on nanosheet size. <i>2D Materials</i> , 2017 , 4, 015040	5.9	13
11	Mapping functional groups on oxidised multi-walled carbon nanotubes at the nanometre scale. <i>Chemical Communications</i> , 2014 , 50, 6744-7	5.8	11
10	Efficient dispersion and exfoliation of single-walled nanotubes in 3-aminopropyltriethoxysilane and its derivatives. <i>Nanotechnology</i> , 2008 , 19, 485702	3.4	6
9	Exploring problem-based cooperative learning in undergraduate physics labs: student perspectives. <i>European Journal of Physics</i> , 2018 , 39, 025703	0.8	5
8	Selenium-enhanced electron microscopic imaging of different aggregate forms of a segment of the amyloid β peptide in cells. <i>ACS Nano</i> , 2012 , 6, 4740-7	16.7	4
7	Effect of Solvents and Dispersants on the Bundle Dissociation of Single-walled Carbon Nanotube. <i>AIP Conference Proceedings</i> , 2005 ,	0	4
6	Effect of solvent and dispersant on the bundle dissociation of single-walled carbon nanotube 2005 ,		3
5	Characterisation of Single-walled Carbon Nanotube Bundle Dissociation in Amide Solvents. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
4	The representation of women in Irish Leaving Certificate Physics textbooks. <i>Physics Education</i> , 2022 , 57, 025017	0.8	0
3	The drop heard round the world. <i>Physics World</i> , 2014 , 27, 26-29	0.5	
2	Electron Microscopic Characterization of Functionalized Multi-Walled Carbon Nanotubes and Their Interactions with the Blood Brain Barrier. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1744-1745	0.5	
1	EFFECT OF SOLVENT AND DISPERSANT ON THE BUNDLE DISSOCIATION OF SINGLE-WALLED CARBON NANOTUBES. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2006 , 211-212		