Shane Bergin

List of Publications by Year in Descending Order

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	The representation of women in Irish Leaving Certificate Physics textbooks. *Physics Education*, **2022**, 57, 025017	0.8	0
28	Exploring problem-based cooperative learning in undergraduate physics labs: student perspectives. *European Journal of Physics*, **2018**, 39, 025703	0.8	5
27	The dependence of the measured surface energy of graphene on nanosheet size. *2D Materials*, **2017**, 4, 015040	5.9	13
26	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. *Biomacromolecules*, **2016**, 17, 1845-53	6.9	25
25	Differentiating Defect and Basal Plane Contributions to the Surface Energy of Graphite Using Inverse Gas Chromatography. *Chemistry of Materials*, **2016**, 28, 6355-6366	9.6	21
24	Mapping functional groups on oxidised multi-walled carbon nanotubes at the nanometre scale. *Chemical Communications*, **2014**, 50, 6744-7	5.8	11
23	The drop heard round the world. *Physics World*, **2014**, 27, 26-29	0.5	
22	Electron Microscopic Characterization of Functionalized Multi-Walled Carbon Nanotubes and Their Interactions with the Blood Brain Barrier. *Microscopy and Microanalysis*, **2014**, 20, 1744-1745	0.5	
21	Selenium-enhanced electron microscopic imaging of different aggregate forms of a segment of the amyloid peptide in cells. *ACS Nano*, **2012**, 6, 4740-7	16.7	4
20	Solvent exfoliation of transition metal dichalcogenides: dispersibility of exfoliated nanosheets varies only weakly between compounds. *ACS Nano*, **2012**, 6, 3468-80	16.7	535
19	Using solution thermodynamics to describe the dispersion of rod-like solutes: application to dispersions of carbon nanotubes in organic solvents. *Nanotechnology*, **2012**, 23, 265604	3.4	15
18	Imaging methods for determining uptake and toxicity of carbon nanotubes in vitro and in vivo. *Nanomedicine*, **2011**, 6, 849-65	5.6	31
17	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. *Science*, **2011**, 331, 568-71	33.3	5221
16	New Solvents for Nanotubes: Approaching the Dispersibility of Surfactants. *Journal of Physical Chemistry C*, **2010**, 114, 231-237	3.8	101
15	Measurement of multicomponent solubility parameters for graphene facilitates solvent discovery. *Langmuir*, **2010**, 26, 3208-13	4	481
14	Effects of Ambient Conditions on Solvent Nanotube Dispersions: Exposure to Water and Temperature Variation. *Journal of Physical Chemistry C*, **2009**, 113, 1260-1266	3.8	16
13	Multicomponent solubility parameters for single-walled carbon nanotube-solvent mixtures. *ACS Nano*, **2009**, 3, 2340-50	16.7	298

List of Publications

12	Quantitative Evaluation of Surfactant-stabilized Single-walled Carbon Nanotubes: Dispersion Quality and Its Correlation with Zeta Potential. *Journal of Physical Chemistry C*, **2008**, 112, 10692-10699	3.8	315
11	Large Populations of Individual Nanotubes in Surfactant-Based Dispersions without the Need for Ultracentrifugation. *Journal of Physical Chemistry C*, **2008**, 112, 972-977	3.8	68
10	High Quality Dispersions of Functionalized Single Walled Nanotubes at High Concentration. *Journal of Physical Chemistry C*, **2008**, 112, 3519-3524	3.8	55
9	Efficient dispersion and exfoliation of single-walled nanotubes in 3-aminopropyltriethoxysilane and its derivatives. *Nanotechnology*, **2008**, 19, 485702	3.4	6
8	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. *Advanced Materials*, **2008**, 20, 1876-1881	24	299
7	Exfoliation in ecstasy: liquid crystal formation and concentration-dependent debundling observed for single-wall nanotubes dispersed in the liquid drug Ebutyrolactone. *Nanotechnology*, **2007**, 18, 455705	3.4	43
6	Debundling of single-walled nanotubes by dilution: observation of large populations of individual nanotubes in amide solvent dispersions. *Journal of Physical Chemistry B*, **2006**, 110, 15708-18	3.4	302
5	Fabrication of stable dispersions containing up to 70% individual carbon nanotubes in a common organic solvent. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3058-3062	1.3	37
4	EFFECT OF SOLVENT AND DISPERSANT ON THE BUNDLE DISSOCIATION OF SINGLE-WALLED CARBON NANOTUBES. *NATO Science Series Series II, Mathematics, Physics and Chemistry*, **2006**, 211-212		
3	Effect of solvent and dispersant on the bundle dissociation of single-walled carbon nanotube **2005**,		3
2	Effect of Solvents and Dispersants on the Bundle Dissociation of Single-walled Carbon Nanotube. *AIP Conference Proceedings*, **2005**,	0	4
1	Characterisation of Single-walled Carbon Nanotube Bundle Dissociation in Amide Solvents. *AIP Conference Proceedings*, **2005**,	0	1