

Shane Bergin

List of Publications by Year in descending order

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30
papers

9,252
citations

516215

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552369

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all docs

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docs citations

30
times ranked

14290
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Nanosheets Produced by Liquid Exfoliation of Layered Materials. <i>Science</i> , 2011, 331, 568-571.	6.0	6,190
2	Solvent Exfoliation of Transition Metal Dichalcogenides: Dispersibility of Exfoliated Nanosheets Varies Only Weakly between Compounds. <i>ACS Nano</i> , 2012, 6, 3468-3480.	7.3	625
3	Measurement of Multicomponent Solubility Parameters for Graphene Facilitates Solvent Discovery. <i>Langmuir</i> , 2010, 26, 3208-3213.	1.6	566
4	Multicomponent Solubility Parameters for Single-Walled Carbon Nanotube Solvent Mixtures. <i>ACS Nano</i> , 2009, 3, 2340-2350.	7.3	347
5	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.	1.5	343
6	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , 2008, 20, 1876-1881.	11.1	333
7	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, 15708-15718.	1.2	330
8	New Solvents for Nanotubes: Approaching the Dispersibility of Surfactants. <i>Journal of Physical Chemistry C</i> , 2010, 114, 231-237.	1.5	108
9	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.	1.5	75
10	High Quality Dispersions of Functionalized Single Walled Nanotubes at High Concentration. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3519-3524.	1.5	56
11	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.	1.3	45
12	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.	0.7	41
13	Imaging methods for determining uptake and toxicity of carbon nanotubes <i>in vitro</i> and <i>in vivo</i> . <i>Nanomedicine</i> , 2011, 6, 849-865.	1.7	37
14	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. <i>Biomacromolecules</i> , 2016, 17, 1845-1853.	2.6	29
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.	3.2	27
16	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.	1.3	17
17	The dependence of the measured surface energy of graphene on nanosheet size. <i>2D Materials</i> , 2017, 4, 015040.	2.0	17
18	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.	1.5	16

#	ARTICLE	IF	CITATIONS
19	Mapping functional groups on oxidised multi-walled carbon nanotubes at the nanometre scale. Chemical Communications, 2014, 50, 6744-6747.	2.2	12
20	Informal physics programs as communities of practice: How can programs support university studentsâ€™ identities?. Physical Review Physics Education Research, 2021, 17, .	1.4	9
21	Exploring problem-based cooperative learning in undergraduate physics labs: student perspectives. European Journal of Physics, 2018, 39, 025703.	0.3	7
22	Efficient dispersion and exfoliation of single-walled nanotubes in 3-aminopropyltriethoxysilane and its derivatives. Nanotechnology, 2008, 19, 485702.	1.3	6
23	Effect of Solvents and Dispersants on the Bundle Dissociation of Single-walled Carbon Nanotube. AIP Conference Proceedings, 2005, , .	0.3	4
24	Selenium-Enhanced Electron Microscopic Imaging of Different Aggregate Forms of a Segment of the Amyloid Î² Peptide in Cells. ACS Nano, 2012, 6, 4740-4747.	7.3	4
25	The representation of women in Irish Leaving Certificate Physics textbooks. Physics Education, 2022, 57, 025017.	0.3	4
26	Effect of solvent and dispersant on the bundle dissociation of single-walled carbon nanotube. , 2005, , .		3
27	Characterisation of Single-walled Carbon Nanotube Bundle Dissociation in Amide Solvents. AIP Conference Proceedings, 2005, , .	0.3	1
28	The drop heard round the world. Physics World, 2014, 27, 26-29.	0.0	0
29	Electron Microscopic Characterization of Functionalized Multi-Walled Carbon Nanotubes and Their Interactions with the Blood Brain Barrier. Microscopy and Microanalysis, 2014, 20, 1744-1745.	0.2	0
30	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.	0.1	0