# Jonathan N Coleman

#### List of Publications by Citations

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#	Paper	IF	Citations
357	Electronics and optoelectronics of two-dimensional transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 699-712	28.7	10871
356	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. <i>Science</i> , <b>2011</b> , 331, 568-71	33.3	5221
355	High-yield production of graphene by liquid-phase exfoliation of graphite. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 563-8	28.7	47 <sup>1</sup> 5
354	Small but strong: A review of the mechanical properties of carbon nanotube polymer composites. <i>Carbon</i> , <b>2006</b> , 44, 1624-1652	10.4	3269
353	Liquid Exfoliation of Layered Materials. <i>Science</i> , <b>2013</b> , 340, 1226419-1226419	33.3	2604
352	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
351	Liquid phase production of graphene by exfoliation of graphite in surfactant/water solutions. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3611-20	16.4	1821
350	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , <b>2014</b> , 13, 624-30	27	1627
349	Mechanical Reinforcement of Polymers Using Carbon Nanotubes. <i>Advanced Materials</i> , <b>2006</b> , 18, 689-70	0624	1399
348	Silver Nanowire Networks as Flexible, Transparent, Conducting Films: Extremely High DC to Optical Conductivity Ratios. <i>ACS Nano</i> , <b>2009</b> , 3, 1767-74	16.7	1343
347	Super-tough carbon-nanotube fibres. <i>Nature</i> , <b>2003</b> , 423, 703	50.4	1256
346	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. <i>Advanced Materials</i> , <b>2011</b> , 23, 3944-8	24	888
345	High-concentration, surfactant-stabilized graphene dispersions. ACS Nano, 2010, 4, 3155-62	16.7	826
344	High-concentration solvent exfoliation of graphene. Small, 2010, 6, 864-71	11	810
343	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond	17.4	764
	electronics. <i>Nature Communications</i> , <b>2015</b> , 6, 8563	±/· <del>4</del>	
342	electronics. <i>Nature Communications</i> , <b>2015</b> , 6, 8563  Ultrafast saturable absorption of two-dimensional MoS2 nanosheets. <i>ACS Nano</i> , <b>2013</b> , 7, 9260-7	16.7	754

## (2012-2002)

340	Experimental observation of scaling laws for alternating current and direct current conductivity in polymer-carbon nanotube composite thin films. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4024-4030	2.5	652
339	Sensitive, high-strain, high-rate bodily motion sensors based on graphene-rubber composites. <i>ACS Nano</i> , <b>2014</b> , 8, 8819-30	16.7	588
338	Morphological and mechanical properties of carbon-nanotube-reinforced semicrystalline and amorphous polymer composites. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 5123-5125	3.4	550
337	A Composite from Poly(m-phenylenevinylene-co-2,5-dioctoxy-p-phenylenevinylene) and Carbon Nanotubes: A Novel Material for Molecular Optoelectronics. <i>Advanced Materials</i> , <b>1998</b> , 10, 1091-1093	24	539
336	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702678	24	538
335	High Performance Nanotube-Reinforced Plastics: Understanding the Mechanism of Strength Increase. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 791-798	15.6	538
334	Solvent exfoliation of transition metal dichalcogenides: dispersibility of exfoliated nanosheets varies only weakly between compounds. <i>ACS Nano</i> , <b>2012</b> , 6, 3468-80	16.7	535
333	Liquid-Phase Exfoliation of Nanotubes and Graphene. Advanced Functional Materials, 2009, 19, 3680-36	<b>9Б</b> 5.6	518
332	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. <i>Science</i> , <b>2016</b> , 354, 1257-1260	33.3	517
331	Measurement of multicomponent solubility parameters for graphene facilitates solvent discovery. <i>Langmuir</i> , <b>2010</b> , 26, 3208-13	4	481
330	Are there fundamental limitations on the sheet resistance and transmittance of thin graphene films?. <i>ACS Nano</i> , <b>2010</b> , 4, 2713-20	16.7	462
329	Preparation of High Concentration Dispersions of Exfoliated MoS2 with Increased Flake Size. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2414-2421	9.6	437
328	Broadband Nonlinear Optical Response of Graphene Dispersions. <i>Advanced Materials</i> , <b>2009</b> , 21, 2430-24	1 <b>3</b> 5Į	428
327	Reinforcement of Polymers with Carbon Nanotubes: The Role of Nanotube Surface Area. <i>Nano Letters</i> , <b>2004</b> , 4, 353-356	11.5	414
326	Additive-free MXene inks and direct printing of micro-supercapacitors. <i>Nature Communications</i> , <b>2019</b> , 10, 1795	17.4	407
325	Graphene Dispersion and Exfoliation in Low Boiling Point Solvents. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5422-5428	3.8	390
324	Electrical connectivity in single-walled carbon nanotube networks. <i>Nano Letters</i> , <b>2009</b> , 9, 3890-5	11.5	377
323	Oxygen radical functionalization of boron nitride nanosheets. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18758-71	16.4	362

322	Percolation-dominated conductivity in a conjugated-polymer-carbon-nanotube composite. <i>Physical Review B</i> , <b>1998</b> , 58, R7492-R7495	3.3	362
321	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. <i>Nature Communications</i> , <b>2014</b> , 5, 4576	17.4	350
320	Flexible, transparent, conducting films of randomly stacked graphene from surfactant-stabilized, oxide-free graphene dispersions. <i>Small</i> , <b>2010</b> , 6, 458-64	11	342
319	Production of Two-Dimensional Nanomaterials via Liquid-Based Direct Exfoliation. <i>Small</i> , <b>2016</b> , 12, 272	-93	339
318	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. <i>ACS Nano</i> , <b>2016</b> , 10, 3702-13	16.7	320
317	Quantitative Evaluation of Surfactant-stabilized Single-walled Carbon Nanotubes: Dispersion Quality and Its Correlation with Zeta Potential. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 10692-10699	3.8	315
316	2D-Crystal-Based Functional Inks. <i>Advanced Materials</i> , <b>2016</b> , 28, 6136-66	24	315
315	Large-Scale Production of Size-Controlled MoS2 Nanosheets by Shear Exfoliation. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1129-1139	9.6	310
314	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> , <b>2006</b> , 110, 15708-18	3.4	302
313	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , <b>2017</b> , 356, 69-7	333.3	301
312	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , <b>2008</b> , 20, 1876-1881	24	299
311	Multicomponent solubility parameters for single-walled carbon nanotube-solvent mixtures. <i>ACS Nano</i> , <b>2009</b> , 3, 2340-50	16.7	298
310	Guidelines for Exfoliation, Characterization and Processing of Layered Materials Produced by Liquid Exfoliation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 243-255	9.6	282
309	Solvent-exfoliated graphene at extremely high concentration. <i>Langmuir</i> , <b>2011</b> , 27, 9077-82	4	280
308	Production of Highly Monolayer Enriched Dispersions of Liquid-Exfoliated Nanosheets by Liquid Cascade Centrifugation. <i>ACS Nano</i> , <b>2016</b> , 10, 1589-601	16.7	271
307	Size effects and the problem with percolation in nanostructured transparent conductors. <i>ACS Nano</i> , <b>2010</b> , 4, 7064-72	16.7	269
306	Broadband ultrafast nonlinear absorption and nonlinear refraction of layered molybdenum dichalcogenide semiconductors. <i>Nanoscale</i> , <b>2014</b> , 6, 10530-5	7.7	264
305	Development of MoS2IINT Composite Thin Film from Layered MoS2 for Lithium Batteries.  Advanced Energy Materials, 2013, 3, 798-805	21.8	263

## (2010-2009)

304	Transparent, flexible, and highly conductive thin films based on polymer-nanotube composites. <i>ACS Nano</i> , <b>2009</b> , 3, 714-20	16.7	256	
303	Spray deposition of highly transparent, low-resistance networks of silver nanowires over large areas. <i>Small</i> , <b>2011</b> , 7, 2621-8	11	254	
302	Development of stiff, strong, yet tough composites by the addition of solvent exfoliated graphene to polyurethane. <i>Carbon</i> , <b>2010</b> , 48, 4035-4041	10.4	249	
301	Size selection of dispersed, exfoliated graphene flakes by controlled centrifugation. <i>Carbon</i> , <b>2012</b> , 50, 470-475	10.4	240	
300	Selective Interaction of a Semiconjugated Organic Polymer with Single-Wall Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 10012-10016	3.4	234	
299	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. <i>ACS Nano</i> , <b>2015</b> , 9, 6018-30	16.7	232	
298	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1751-1763	9.6	231	
297	Improving the mechanical properties of single-walled carbon nanotube sheets by intercalation of polymeric adhesives. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1682-1684	3.4	227	
296	Liquid Phase Exfoliated MoS2 Nanosheets Percolated with Carbon Nanotubes for High Volumetric/Areal Capacity Sodium-Ion Batteries. <i>ACS Nano</i> , <b>2016</b> , 10, 8821-8	16.7	221	
295	The importance of repulsive potential barriers for the dispersion of graphene using surfactants. <i>New Journal of Physics</i> , <b>2010</b> , 12, 125008	2.9	218	
294	Inkjet deposition of liquid-exfoliated graphene and MoS2 nanosheets for printed device applications. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 925-932	7.1	217	
293	Improving the mechanical properties of graphene oxide based materials by covalent attachment of polymer chains. <i>Carbon</i> , <b>2013</b> , 52, 363-371	10.4	211	
292	A generic organometallic approach toward ultra-strong carbon nanotube polymer composites. Journal of the American Chemical Society, <b>2004</b> , 126, 10226-7	16.4	210	
291	Electrical characteristics of molybdenum disulfide flakes produced by liquid exfoliation. <i>Advanced Materials</i> , <b>2011</b> , 23, 4178-82	24	208	
290	Reinforcement of polymers with carbon nanotubes. The role of an ordered polymer interfacial region. Experiment and modeling. <i>Polymer</i> , <b>2006</b> , 47, 8556-8561	3.9	207	
289	A Microscopic and Spectroscopic Study of Interactions between Carbon Nanotubes and a Conjugated Polymer. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 2210-2216	3.4	204	
288	Continuous carbon nanotube composite fibers: properties, potential applications, and problems. Journal of Materials Chemistry, <b>2004</b> , 14, 1		203	
287	Electrochemical ascorbic acid sensor based on DMF-exfoliated graphene. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7864		202	

286	Turbulence-assisted shear exfoliation of graphene using household detergent and a kitchen blender. <i>Nanoscale</i> , <b>2014</b> , 6, 11810-9	7.7	200
285	Inkjet printing of silver nanowire networks. ACS Applied Materials & amp; Interfaces, 2015, 7, 9254-61	9.5	199
284	Highly flexible and transparent solid-state supercapacitors based on RuO2/PEDOT:PSS conductive ultrathin films. <i>Nano Energy</i> , <b>2016</b> , 28, 495-505	17.1	197
283	Enhancement of Modulus, Strength, and Toughness in Poly(methyl methacrylate)-Based Composites by the Incorporation of Poly(methyl methacrylate)-Functionalized Nanotubes. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1608-1614	15.6	196
282	The effects of percolation in nanostructured transparent conductors. MRS Bulletin, 2011, 36, 774-781	3.2	193
281	Functionalization of liquid-exfoliated two-dimensional 2H-MoS2. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 2638-42	16.4	189
280	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001	5.9	179
279	Ultrafast Nonlinear Excitation Dynamics of Black Phosphorus Nanosheets from Visible to Mid-Infrared. <i>ACS Nano</i> , <b>2016</b> , 10, 6923-32	16.7	178
278	Measuring the lateral size of liquid-exfoliated nanosheets with dynamic light scattering. <i>Nanotechnology</i> , <b>2013</b> , 24, 265703	3.4	177
277	High capacity silicon anodes enabled by MXene viscous aqueous ink. <i>Nature Communications</i> , <b>2019</b> , 10, 849	17.4	174
276	Role of Solubility Parameters in Understanding the Steric Stabilization of Exfoliated Two-Dimensional Nanosheets by Adsorbed Polymers. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 11393-	1318400	171
275	High-pressure Raman spectroscopy of graphene. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	168
274	Phase Separation of Carbon Nanotubes and Turbostratic Graphite Using a Functional Organic Polymer. <i>Advanced Materials</i> , <b>2000</b> , 12, 213-216	24	162
273	Polymer reinforcement using liquid-exfoliated boron nitride nanosheets. <i>Nanoscale</i> , <b>2013</b> , 5, 581-7	7.7	156
272	The spatial uniformity and electromechanical stability of transparent, conductive films of single walled nanotubes. <i>Carbon</i> , <b>2009</b> , 47, 2466-2473	10.4	155
271	High areal capacity battery electrodes enabled by segregated nanotube networks. <i>Nature Energy</i> , <b>2019</b> , 4, 560-567	62.3	153
270	Approaching the theoretical limit for reinforcing polymers with graphene. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1278-1282		145
269	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3483-3493	9.6	144

## (2010-2016)

268	Graphene oxide and graphene nanosheet reinforced aluminium matrix composites: Powder synthesis and prepared composite characteristics. <i>Materials and Design</i> , <b>2016</b> , 94, 87-94	8.1	143
267	Spectroscopic metrics allow in situ measurement of mean size and thickness of liquid-exfoliated few-layer graphene nanosheets. <i>Nanoscale</i> , <b>2016</b> , 8, 4311-23	7.7	142
266	Nanopatterning and Electrical Tuning of MoS2 Layers with a Subnanometer Helium Ion Beam. <i>Nano Letters</i> , <b>2015</b> , 15, 5307-13	11.5	138
265	Ag-nanowire films coated with ZnO nanoparticles as a transparent electrode for solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 183307	3.4	136
264	Electrical, Mechanical, and Capacity Percolation Leads to High-Performance MoS2/Nanotube Composite Lithium Ion Battery Electrodes. <i>ACS Nano</i> , <b>2016</b> , 10, 5980-90	16.7	134
263	Nanotube surfactant design: the versatility of water-soluble perylene bisimides. <i>Advanced Materials</i> , <b>2010</b> , 22, 788-802	24	128
262	Reinforcement in melt-processed polymergraphene composites at extremely low graphene loading level. <i>Carbon</i> , <b>2014</b> , 78, 243-249	10.4	120
261	Selective Interaction in a PolymerBingle-Wall Carbon Nanotube Composite. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 478-482	3.4	120
260	Tunable nonlinear refractive index of two-dimensional MoS_2, WS_2, and MoSe_2 nanosheet dispersions [Invited]. <i>Photonics Research</i> , <b>2015</b> , 3, A51	6	117
259	Quantifying the factors limiting rate[performance in battery electrodes. <i>Nature Communications</i> , <b>2019</b> , 10, 1933	17.4	114
258	Avoiding Resistance Limitations in High-Performance Transparent Supercapacitor Electrodes Based on Large-Area, High-Conductivity PEDOT:PSS Films. <i>ACS Applied Materials &amp; Design Among Transparent Supercapacitor Electrodes Based on Large-Area, High-Conductivity PEDOT:PSS Films. ACS Applied Materials &amp; Design Among Transparent Supercapacitor Electrodes Based on Large-Area, High-Conductivity PEDOT:PSS Films. <i>ACS Applied Materials &amp; Design Among Transparent Supercapacitor Electrodes Based on Large-Area, High-Conductivity PEDOT:PSS Films. ACS Applied Materials &amp; Design Among Transparent Supercapacitor Electrodes Based on Large-Area, High-Conductivity PEDOT:PSS Films. <i>ACS Applied Materials &amp; Design Among Transparent Supercapacitor Electrodes Based On Large-Area, High-Conductivity PEDOT:PSS Films. ACS Applied Materials &amp; Design Among Transparent Supercapacitor Electrodes Based On Large-Area, High-Conductivity PEDOT:PSS Films. ACS Applied Materials &amp; Design Among Transparent Supercapacitor Electrodes Based On Large-Area, High-Conductivity PEDOT:PSS Films &amp; Design Among Transparent Supercapacitor Pedot Ped</i></i></i>	495 <sup>5</sup> 50	6 <sup>109</sup>
257	Relationship between material properties and transparent heater performance for both bulk-like and percolative nanostructured networks. <i>ACS Nano</i> , <b>2014</b> , 8, 4805-14	16.7	109
256	The dependence of the optoelectrical properties of silver nanowire networks on nanowire length and diameter. <i>Nanotechnology</i> , <b>2012</b> , 23, 185201	3.4	107
255	Ordered DNA wrapping switches on luminescence in single-walled nanotube dispersions. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12734-44	16.4	107
254	Air-stable monodispersed Mo6S3I6nanowires. <i>Nanotechnology</i> , <b>2004</b> , 15, 635-638	3.4	107
253	The relationship between network morphology and conductivity in nanotube films. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 044302	2.5	106
252	Hydrogen evolution across nano-Schottky junctions at carbon supported MoS2 catalysts in biphasic liquid systems. <i>Chemical Communications</i> , <b>2012</b> , 48, 6484-6	5.8	105
251	Very thin transparent, conductive carbon nanotube films on flexible substrates. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 023114	3.4	105

250	Improvement of transparent conducting nanotube films by addition of small quantities of graphene. <i>ACS Nano</i> , <b>2010</b> , 4, 4238-46	16.7	102
249	Solubility of Mo6S4.5I4.5 nanowires in common solvents: a sedimentation study. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 7124-33	3.4	102
248	Thickness Dependence and Percolation Scaling of Hydrogen Production Rate in MoS2 Nanosheet and Nanosheet-Carbon Nanotube Composite Catalytic Electrodes. <i>ACS Nano</i> , <b>2016</b> , 10, 672-83	16.7	101
247	New Solvents for Nanotubes: Approaching the Dispersibility of Surfactants. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 231-237	3.8	101
246	Comparison of liquid exfoliated transition metal dichalcogenides reveals MoSe2 to be the most effective hydrogen evolution catalyst. <i>Nanoscale</i> , <b>2016</b> , 8, 5737-49	7.7	100
245	Thermoelectric behavior of organic thin film nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics,</i> <b>2013</b> , 51, 119-123	2.6	99
244	Enhanced brightness in organic light-emitting diodes using a carbon nanotube composite as an electron-transport layer. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 969-975	2.5	98
243	Electrifying inks with 2D materials. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 738-9	28.7	96
242	Carbon nanotubes for reinforcement of plastics? A case study with poly(vinyl alcohol). <i>Composites Science and Technology</i> , <b>2007</b> , 67, 1640-1649	8.6	96
241	The preparation of hybrid films of carbon nanotubes and nano-graphite/graphene with excellent mechanical and electrical properties. <i>Carbon</i> , <b>2010</b> , 48, 2825-2830	10.4	94
240	Material Investigation and Optical Limiting Properties of Carbon Nanotube and Nanoparticle Dispersions. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 958-964	3.4	92
239	Liquid exfoliation of interlayer spacing-tunable 2D vanadium oxide nanosheets: High capacity and rate handling Li-ion battery cathodes. <i>Nano Energy</i> , <b>2017</b> , 39, 151-161	17.1	91
238	Improved adhesive strength and toughness of polyvinyl acetate glue on addition of small quantities of graphene. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2013</b> , 5, 1423-8	9.5	91
237	Spontaneous Debundling of Single-Walled Carbon Nanotubes in DNA-Based Dispersions. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 66-74	3.8	89
236	High-Yield, Nondestructive Purification and Quantification Method for Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 3087-3091	3.4	89
235	Mapping of Low-Frequency Raman Modes in CVD-Grown Transition Metal Dichalcogenides: Layer Number, Stacking Orientation and Resonant Effects. <i>Scientific Reports</i> , <b>2016</b> , 6, 19476	4.9	88
234	Photoconductivity of solution-processed MoS2 films. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6899	7.1	88
233	Observation of Percolation-like Scaling Far from the Percolation Threshold In High Volume Fraction, High Conductivity Polymer-Nanotube Composite Films. <i>Advanced Materials</i> , <b>2007</b> , 19, 4443-44	.4 <sup>2</sup> /4	84

232	Optimisation of the arc-discharge production of multi-walled carbon nanotubes. <i>Carbon</i> , <b>2002</b> , 40, 923-	9 <b>28</b> .4	84
231	Physical Doping of a Conjugated Polymer with Carbon Nanotubes. <i>Synthetic Metals</i> , <b>1999</b> , 102, 1174-11	<b>75</b> .6	84
230	Effect of percolation on the capacitance of supercapacitor electrodes prepared from composites of manganese dioxide nanoplatelets and carbon nanotubes. <i>ACS Nano</i> , <b>2014</b> , 8, 9567-79	16.7	82
229	Reinforcement of poly(vinyl chloride) and polystyrene using chlorinated polypropylene grafted carbon nanotubes. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 4206		81
228	Carbon-nanotube nucleated crystallinity in a conjugated polymer based composite. <i>Chemical Physics Letters</i> , <b>2004</b> , 391, 329-333	2.5	81
227	Percolation effects in supercapacitors with thin, transparent carbon nanotube electrodes. <i>ACS Nano</i> , <b>2012</b> , 6, 1732-41	16.7	80
226	Evolution and evaluation of the polymer/nanotube composite. Synthetic Metals, 1999, 103, 2559-2562	3.6	80
225	Electrochemical Applications of Two-Dimensional Nanosheets: The Effect of Nanosheet Length and Thickness. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2641-2651	9.6	79
224	High-strength, high-toughness composite fibers by swelling Kevlar in nanotube suspensions. <i>Small</i> , <b>2009</b> , 5, 466-9	11	78
223	Charge transport effects in field emission from carbon nanotube-polymer composites. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 263105	3.4	77
222	Liquid Exfoliated Co(OH)2 Nanosheets as Low-Cost, Yet High-Performance, Catalysts for the Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702965	21.8	75
221	DMF-exfoliated graphene for electrochemical NADH detection. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7747-50	3.6	74
220	Influence of hard segment content and nature on polyurethane/multiwalled carbon nanotube composites. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 1030-1038	8.6	73
219	Equipartition of Energy Defines the Size-Thickness Relationship in Liquid-Exfoliated Nanosheets. <i>ACS Nano</i> , <b>2019</b> , 13, 7050-7061	16.7	71
218	Percolation scaling in composites of exfoliated MoS2 filled with nanotubes and graphene. <i>Nanoscale</i> , <b>2012</b> , 4, 6260-4	7.7	71
217	High-Performance Transparent Conductors from Networks of Gold Nanowires. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 3058-3062	6.4	71
216	Enhancing the mechanical properties of BN nanosheet-polymer composites by uniaxial drawing. <i>Nanoscale</i> , <b>2014</b> , 6, 4889-95	7.7	70
215	Reinforcement of macroscopic carbon nanotube structures by polymer intercalation: The role of polymer molecular weight and chain conformation. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	70

214	Large variations in both dark- and photoconductivity in nanosheet networks as nanomaterial is varied from MoS2 to WTe2. <i>Nanoscale</i> , <b>2015</b> , 7, 198-208	7.7	68
213	Strong dependence of mechanical properties on fiber diameter for polymer-nanotube composite fibers: differentiating defect from orientation effects. <i>ACS Nano</i> , <b>2010</b> , 4, 6989-97	16.7	68
212	Large Populations of Individual Nanotubes in Surfactant-Based Dispersions without the Need for Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 972-977	3.8	68
211	Helium ion microscopy of graphene: beam damage, image quality and edge contrast. <i>Nanotechnology</i> , <b>2013</b> , 24, 335702	3.4	65
<b>21</b> 0	Manipulating connectivity and electrical conductivity in metallic nanowire networks. <i>Nano Letters</i> , <b>2012</b> , 12, 5966-71	11.5	65
209	Carbon-nanotube-polymer nanocomposites for field-emission cathodes. <i>Small</i> , <b>2009</b> , 5, 826-31	11	65
208	Chemical functionalisation of titania nanotubes and their utilisation for the fabrication of reinforced polystyrene composites. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 2351		65
207	Generalizing solubility parameter theory to apply to one- and two-dimensional solutes and to incorporate dipolar interactions. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 4483-4491	2.9	64
206	Covalently functionalized hexagonal boron nitride nanosheets by nitrene addition. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 10808-12	4.8	64
205	Nonlinear optical response of multiwalled carbon-nanotube dispersions. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2003</b> , 20, 49	1.7	63
204	Biomolecules as selective dispersants for carbon nanotubes. <i>Carbon</i> , <b>2005</b> , 43, 1879-1884	10.4	62
203	Photoluminescence from Liquid-Exfoliated WS2 Monomers in Poly(Vinyl Alcohol) Polymer Composites. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1028-1039	15.6	62
202	Transition metal dichalcogenide growth via close proximity precursor supply. <i>Scientific Reports</i> , <b>2014</b> , 4, 7374	4.9	60
201	Electroconductive Biohybrid Collagen/Pristine Graphene Composite Biomaterials with Enhanced Biological Activity. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706442	24	60
200	Production of Ni(OH)2 nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11046-11059	13	60
199	Observation of mechanical percolation in functionalized graphene oxide/elastomer composites. <i>Carbon</i> , <b>2012</b> , 50, 4489-4494	10.4	60
198	Microscopy studies of nanotube-conjugated polymer interactions. Synthetic Metals, <b>2001</b> , 121, 1225-122	2 <b>5</b> .6	60
197	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. <i>ACS Nano</i> , <b>2020</b> , 14, 10976-109	9 <b>86</b> .7	59

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196	The Effect of Nanotube Content and Orientation on the Mechanical Properties of PolymerNanotube Composite Fibers: Separating Intrinsic Reinforcement from Orientational Effects. Advanced Functional Materials, 2011, 21, 364-371	15.6	59	
195	Binding Kinetics and SWNT Bundle Dissociation in Low Concentration Polymer Nanotube Dispersions. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 3446-3450	3.4	59	
194	Enabling Flexible Heterostructures for Li-Ion Battery Anodes Based on Nanotube and Liquid-Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. <i>Small</i> , <b>2017</b> , 13, 1701677	11	57	
193	Dibromocarbene Functionalization of Boron Nitride Nanosheets: Toward Band Gap Manipulation and Nanocomposite Applications. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 7039-7050	9.6	57	
192	Autophagy induction by silver nanowires: a new aspect in the biocompatibility assessment of nanocomposite thin films. <i>Toxicology and Applied Pharmacology</i> , <b>2012</b> , 264, 451-61	4.6	57	
191	Biological recognition of graphene nanoflakes. <i>Nature Communications</i> , <b>2018</b> , 9, 1577	17.4	55	
190	High Quality Dispersions of Functionalized Single Walled Nanotubes at High Concentration. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3519-3524	3.8	55	
189	Strong, Tough, Electrospun PolymerNanotube Composite Membranes with Extremely Low Density. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2618-2624	15.6	55	
188	Multifunctional Carbon Nanotube Composite Fibers. Advanced Engineering Materials, 2004, 6, 801-804	3.5	55	
187	Observation of site selective binding in a polymer nanotube composite. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 2239-2241		55	
186	All-printed capacitors from graphene-BN-graphene nanosheet heterostructures. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 023107	3.4	54	
185	Solubility of Mo6S4.5I4.5 nanowires. <i>Chemical Physics Letters</i> , <b>2005</b> , 401, 13-18	2.5	53	
184	White Graphene undergoes Peroxidase Degradation. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5506-11	16.4	51	
183	Arbitrarily Shaped Fiber Assemblies from Spun Carbon Nanotube Gel Fibers. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2918-2924	15.6	50	
182	Comparison of carbon nanotubes and nanodisks as percolative fillers in electrically conductive composites. <i>Scripta Materialia</i> , <b>2008</b> , 58, 69-72	5.6	49	
181	Multiwalled carbon nanotube nucleated crystallization and reinforcement in poly (vinyl alcohol) composites. <i>Synthetic Metals</i> , <b>2006</b> , 156, 332-335	3.6	49	
180	Nitrogen assisted etching of graphene layers in a scanning electron microscope. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 243117	3.4	48	
179	The effect of solvent choice on the mechanical properties of carbon nanotubepolymer composites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 3158-3167	8.6	48	

178	A Technique To Pretreat Graphite Which Allows the Rapid Dispersion of Defect-Free Graphene in Solvents at High Concentration. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 19212-19218	3.8	46
177	Optical Spectroscopy of Isolated and Aggregate Hexabenzocoronene Derivatives: A Study of Self-Assembling Molecular Nanowires. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 37-43	3.4	46
176	Boron nitride nanosheets as barrier enhancing fillers in melt processed composites. <i>Nanoscale</i> , <b>2015</b> , 7, 4443-50	7.7	45
175	A functional conjugated polymer to process, purify and selectively interact with single wall carbon nanotubes. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1217-1218	3.6	45
174	Mechanical properties of individual electrospun polymer-nanotube composite nanofibers. <i>Carbon</i> , <b>2009</b> , 47, 2253-2258	10.4	44
173	On the factors controlling the mechanical properties of nanotube films. <i>Carbon</i> , <b>2008</b> , 46, 41-47	10.4	44
172	Spectroscopic Size and Thickness Metrics for Liquid-Exfoliated h-BN. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1998-2005	9.6	43
171	High quality dispersions of hexabenzocoronene in organic solvents. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12168-79	16.4	43
170	Exfoliation in ecstasy: liquid crystal formation and concentration-dependent debundling observed for single-wall nanotubes dispersed in the liquid drug Ebutyrolactone. <i>Nanotechnology</i> , <b>2007</b> , 18, 45570	5 <sup>3.4</sup>	43
169	Exfoliation of 2D materials by high shear mixing. 2D Materials, 2019, 6, 015008	5.9	43
168	Probing the local nature of excitons and plasmons in few-layer MoS2. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	41
167	Selective Mechanical Reinforcement of Thermoplastic Polyurethane by Targeted Insertion of Functionalized SWCNTs. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11401-11408	3.8	41
166	Kevlar coated carbon nanotubes for reinforcement of polyvinylchloride. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5585		41
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163	High strength composite fibres from polyester filled with nanotubes and graphene. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12907		40
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158	Controlling the optical properties of a conjugated co-polymer through variation of backbone isomerism and the introduction of carbon nanotubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2001</b> , 144, 31-41	4.7	37	
157	Non-resonant light scattering in dispersions of 2D nanosheets. <i>Nature Communications</i> , <b>2018</b> , 9, 4553	17.4	37	
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154	Graphene-coated polymer foams as tuneable impact sensors. <i>Nanoscale</i> , <b>2018</b> , 10, 5366-5375	7.7	36	
153	Surface coatings of silver nanowires lead to effective, high conductivity, high-strain, ultrathin sensors. <i>Nanoscale</i> , <b>2017</b> , 9, 18507-18515	7.7	36	
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151	Polymer grafting to single-walled carbon nanotubes: effect of chain length on solubility, graft density and mechanical properties of macroscopic structures. <i>Small</i> , <b>2013</b> , 9, 552-60	11	36	
150	Polymer Reinforcement with Kevlar-Coated Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 20184-20192	3.8	36	
149	Physical properties of novel free-standing polymerBanotube thin films. <i>Carbon</i> , <b>2006</b> , 44, 1525-1529	10.4	35	
148	Nonlinear photoluminescence from van Hove singularities in multiwalled carbon nanotubes. <i>Optics Letters</i> , <b>2003</b> , 28, 266-8	3	35	
147	Complex nano-assemblies of polymers and carbon nanotubes. <i>Nanotechnology</i> , <b>2001</b> , 12, 187-190	3.4	35	
146	Optical Absorption and Fluorescence of a Multi-walled Nanotube-Polymer Composite. <i>Synthetic Metals</i> , <b>1999</b> , 102, 1176-1177	3.6	34	
145	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2966-2974	6.1	34	
144	High stiffness nano-composite fibres from polyvinylalcohol filled with graphene and boron nitride. <i>Carbon</i> , <b>2016</b> , 99, 280-288	10.4	33	
143	Development of transparent, conducting composites by surface infiltration of nanotubes into commercial polymer films. <i>Carbon</i> , <b>2009</b> , 47, 1983-1988	10.4	33	

142	Flexible, transparent dielectric capacitors with nanostructured electrodes. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 103106	3.4	33
141	Observation of extremely low percolation threshold in MoSI nanowire/polymer composites. <i>Scripta Materialia</i> , <b>2006</b> , 54, 417-420	5.6	33
140	Dispersion and purification of Mo6S3I6 nanowires in organic solvents. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 014317	2.5	33
139	Size-dependent saturable absorption and mode-locking of dispersed black phosphorus nanosheets. <i>Optical Materials Express</i> , <b>2016</b> , 6, 3159	2.6	33
138	Slow and fast absorption saturation of black phosphorus: experiment and modelling. <i>Nanoscale</i> , <b>2016</b> , 8, 17374-17382	7.7	33
137	Functionalization of Liquid-Exfoliated Two-Dimensional 2H-MoS2. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2676	- <b>3.6</b> 80	32
136	Electrochemical water oxidation: The next five years. Current Opinion in Electrochemistry, 2018, 7, 31-35	7.2	32
135	Insulator-Conductor Type Transitions in Graphene-Modified Silver Nanowire Networks: A Route to Inexpensive Transparent Conductors. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7580-7587	15.6	32
134	Electron paramagnetic resonance as a quantitative tool for the study of multiwalled carbon nanotubes. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 9788-9793	3.9	32
133	Electronic Polarizability as the Fundamental Variable in the Dielectric Properties of Two-Dimensional Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 841-851	11.5	31
132	Liquid phase exfoliation of carbonate-intercalated layered double hydroxides. <i>Chemical Communications</i> , <b>2019</b> , 55, 3315-3318	5.8	30
131	Tuning the mechanical properties of composites from elastomeric to rigid thermoplastic by controlled addition of carbon nanotubes. <i>Small</i> , <b>2011</b> , 7, 1579-86	11	30
130	Exploring the versatility of liquid phase exfoliation: producing 2D nanosheets from talcum powder, cat litter and beach sand. <i>2D Materials</i> , <b>2017</b> , 4, 025054	5.9	29
129	Liquid phase exfoliation of MoO2 nanosheets for lithium ion battery applications. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1560-1570	5.1	29
128	Mechanochromic and Thermochromic Sensors Based on Graphene Infused Polymer Opals. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002473	15.6	29
127	Spontaneous exfoliation of single-walled carbon nanotubes dispersed using a designed amphiphilic peptide. <i>Biomacromolecules</i> , <b>2008</b> , 9, 598-602	6.9	29
126	Towards tough, yet stiff, composites by filling an elastomer with single-walled nanotubes at very high loading levels. <i>Nanotechnology</i> , <b>2008</b> , 19, 415709	3.4	29
125	A carbon nanotube composite as an electron transport layer for M3EH-PPV based light-emitting diodes. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1683-1684	3.6	29

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124	Quantifying the Trade-Off between Absolute Capacity and Rate Performance in Battery Electrodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901359	21.8	28
123	Selective electrochemical production of hydrogen peroxide at zigzag edges of exfoliated molybdenum telluride nanoflakes. <i>National Science Review</i> , <b>2020</b> , 7, 1360-1366	10.8	27
122	Relating the optical absorption coefficient of nanosheet dispersions to the intrinsic monolayer absorption. <i>Carbon</i> , <b>2016</b> , 107, 733-738	10.4	27
121	The Effect of Network Formation on the Mechanical Properties of 1D:2D Nano:Nano Composites. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5245-5255	9.6	27
120	Debundling by dilution: Observation of significant populations of individual MoSI nanowires in high concentration dispersions. <i>Chemical Physics Letters</i> , <b>2006</b> , 425, 89-93	2.5	27
119	Length- and Thickness-Dependent Optical Response of Liquid-Exfoliated Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10049-10062	9.6	27
118	Solvent exfoliation stabilizes TiS nanosheets against oxidation, facilitating lithium storage applications. <i>Nanoscale</i> , <b>2019</b> , 11, 6206-6216	7.7	26
117	Increased response/recovery lifetimes and reinforcement of polyaniline nanofiber films using carbon nanotubes. <i>Carbon</i> , <b>2012</b> , 50, 1447-1454	10.4	26
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114	Upper bound for the conductivity of nanotube networks. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 123106	3.4	25
113	Spectroscopic investigation of conjugated polymer/single-walled carbon nanotube interactions. <i>Chemical Physics Letters</i> , <b>2001</b> , 350, 27-32	2.5	25
112	Quantifying the Role of Nanotubes in Nano:Nano Composite Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702364	21.8	25
111	Physical mechanism for the mechanical reinforcement in nanotube-polymer composite materials. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	24
110	Quantifying the contributions of inner-filter, re-absorption and aggregation effects in the photoluminescence of high-concentration conjugated polymer solutions. <i>Journal of Luminescence</i> , <b>2008</b> , 128, 31-40	3.8	23
109	Enhanced adsorption affinity of anionic perylene-based surfactants towards smaller-diameter SWCNTs. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 13185-92	4.8	22
108	Covalently interconnected transition metal dichalcogenide networks via defect engineering for high-performance electronic devices. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 592-598	28.7	22
107	Low wavenumber Raman spectroscopy of highly crystalline MoSe2 grown by chemical vapor deposition. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2385-2389	1.3	21

106	Inverting Polyurethanes Synthesis: Effects on Nano/Micro-Structure and Mechanical Properties. <i>Soft Materials</i> , <b>2010</b> , 9, 79-93	1.7	21
105	Toughening of artificial silk by incorporation of carbon nanotubes. <i>Biomacromolecules</i> , <b>2007</b> , 8, 3973-6	6.9	21
104	The electrical conductivity of solution-processed nanosheet networks. <i>Nature Reviews Materials</i> ,	73.3	21
103	Differentiating Defect and Basal Plane Contributions to the Surface Energy of Graphite Using Inverse Gas Chromatography. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6355-6366	9.6	21
102	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2124-2133	35.4	20
101	Robustness of Size Selection and Spectroscopic Size, Thickness and Monolayer Metrics of Liquid-Exfoliated WS2. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700443	1.3	20
100	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. <i>ACS Nano</i> , <b>2020</b> , 14, 13418-13432	16.7	20
99	Lateral size selection of surfactant-stabilised graphene flakes using size exclusion chromatography. <i>Chemical Physics Letters</i> , <b>2012</b> , 531, 169-172	2.5	19
98	Additive Manufacturing of Ti C MXene-Functionalized Conductive Polymer Hydrogels for Electromagnetic-Interference Shielding. <i>Advanced Materials</i> , <b>2021</b> , e2106253	24	19
97	Charge trapping and coalescence dynamics in few layer MoS 2. 2D Materials, 2018, 5, 015011	5.9	18
96	Whiskey-phase exfoliation: exfoliation and printing of nanosheets using Irish whiskey. <i>2D Materials</i> , <b>2019</b> , 6, 045036	5.9	18
95	Density controlled conductivity of pristine graphene films. <i>Carbon</i> , <b>2013</b> , 64, 435-443	10.4	18
94	Production of monolayer-rich gold-decorated 2HWS2 nanosheets by defect engineering. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	18
93	Liquid phase exfoliation of GeS nanosheets in ambient conditions for lithium ion battery applications. <i>2D Materials</i> , <b>2020</b> , 7, 035015	5.9	18
92	Quantitative comparison of ultracentrifuged and diluted single walled nanotube dispersions; differences in dispersion quality. <i>Chemical Physics Letters</i> , <b>2009</b> , 474, 122-126	2.5	17
91	Liquid Exfoliated SnP3 Nanosheets for Very High Areal Capacity Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002364	21.8	17
90	Carbon nanotubes-bridged molybdenum trioxide nanosheets as high performance anode for lithium ion batteries. <i>2D Materials</i> , <b>2018</b> , 5, 015024	5.9	17
89	Percolation Effects in Electrolytically Gated WS/Graphene Nano:Nano Composites. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2019</b> , 11, 8545-8555	9.5	16

88	Pristine graphene induces innate immune training. <i>Nanoscale</i> , <b>2020</b> , 12, 11192-11200	7.7	16
87	Dispersion and Exfoliation of Nanotubes with Synthetic Oligonucleotides: Variation of Dispersion Efficiency and Oligo-Nanotube Interaction with Base Type. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11741-11747	3.8	16
86	Effects of Ambient Conditions on Solvent Nanotube Dispersions: Exposure to Water and Temperature Variation. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1260-1266	3.8	16
85	Effect of Surfactant Choice and Concentration on the Dimensions and Yield of Liquid-Phase-Exfoliated Nanosheets. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2852-2862	9.6	15
84	An investigation of the energy storage properties of a 2D $\oplus$ MoO 3 -SWCNTs composite films. 2D Materials, <b>2017</b> , 4, 015005	5.9	15
83	Using solution thermodynamics to describe the dispersion of rod-like solutes: application to dispersions of carbon nanotubes in organic solvents. <i>Nanotechnology</i> , <b>2012</b> , 23, 265604	3.4	15
82	Preparation of buckypaper-copper composites and investigation of their conductivity and mechanical properties. <i>ChemPhysChem</i> , <b>2009</b> , 10, 774-7	3.2	15
81	Exfoliation of Mo6SxI9-xnanowires in common solvents. <i>EPJ Applied Physics</i> , <b>2007</b> , 37, 149-159	1.1	15
80	Nonlinear optical response of Mo6S4.5I4.5 nanowires. <i>Chemical Physics Letters</i> , <b>2007</b> , 435, 109-113	2.5	15
79	High Performance Na-O Batteries and Printed Microsupercapacitors Based on Water-Processable, Biomolecule-Assisted Anodic Graphene. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 494-506	9.5	15
78	Ru Photosensitizer-Functionalized Two-Dimensional MoS for Light-Driven Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 351-355	4.8	15
77	Dependence of Photocurrent Enhancements in Quantum Dot (QD)-Sensitized MoS2 Devices on MoS2 Film Properties. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706149	15.6	14
76	Preparation of Liquid-exfoliated Transition Metal Dichalcogenide Nanosheets with Controlled Size and Thickness: A State of the Art Protocol. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	14
75	Materials science of graphene: a flagship perspective. 2D Materials, 2016, 3, 010401	5.9	14
74	Systematic trends in the synthesis of (meta-phenylene vinylene) copolymers. <i>Synthetic Metals</i> , <b>2001</b> , 119, 151-152	3.6	14
73	White Graphene undergoes Peroxidase Degradation. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5596-5601	3.6	14
72	The dependence of the measured surface energy of graphene on nanosheet size. <i>2D Materials</i> , <b>2017</b> , 4, 015040	5.9	13
71	Yielding and flow of highly concentrated, few-layer graphene suspensions. <i>Soft Matter</i> , <b>2015</b> , 11, 3159	- <b>64</b> .6	13

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48	Alternating and direct current characterization and photoinduced absorption studies of modified conjugated polymer thin films. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 6138-6144	2.5	7
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45	Exfoliation in Endotoxin-Free Albumin Generates Pristine Graphene with Reduced Inflammatory Properties. <i>Advanced Biology</i> , <b>2018</b> , 2, 1800102	3.5	7
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