Jonathan N Coleman

List of Publications by Year
in descending order

375 papers	86,638 citations	1099 112 h-index	313 290 g-index
384 all docs	384 docs citations	384 times ranked	62682 citing authors

#	Article	IF	Citations
1	The electrical conductivity of solution-processed nanosheet networks. Nature Reviews Materials, 2022, 7, 217-234.	48.7	75
2	Additive Manufacturing of Ti₃C₂â€MXeneâ€Functionalized Conductive Polymer Hydrogels for Electromagneticâ€Interference Shielding. Advanced Materials, 2022, 34, e2106253.	21.0	115
3	Cyclic production of biocompatible few-layer graphene ink with in-line shear-mixing for inkjet-printed electrodes and Li-ion energy storage. Npj 2D Materials and Applications, 2022, 6, .	7.9	15
4	Quantifying the Piezoresistive Mechanism in High-Performance Printed Graphene Strain Sensors. ACS Applied Materials & Interfaces, 2022, 14, 7141-7151.	8.0	14
5	Highly Conductive Networks of Silver Nanosheets. Small, 2022, 18, e2105996.	10.0	16
6	Quantifying the Effect of Separator Thickness on Rate Performance in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 030503.	2.9	17
7	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF3) into 2D-platelets for high-capacity lithium storing cathodes. FlatChem, 2022, 33, 100360.	5.6	15
8	Liquidâ€Phase Exfoliation of Nonlayered Nonâ€Vanâ€Derâ€Waals Crystals into Nanoplatelets. Advanced Materials, 2022, 34, e2202164.	21.0	40
9	On the relationship between morphology and conductivity in nanosheet networks. Carbon, 2021, 171, 306-319.	10.3	22
10	Label-free screening of biochemical changes in macrophage-like cells following MoS2 exposure using Raman micro-spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 118916.	3.9	4
11	Liquid Exfoliated SnP₃ Nanosheets for Very High Areal Capacity Lithiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2002364.	19.5	40
12	Tuning the Photoâ€electrochemical Performance of Ru II â€Sensitized Twoâ€Dimensional MoS 2. Chemistry - A European Journal, 2021, 27, 984-992.	3.3	3
13	Covalently interconnected transition metal dichalcogenide networks via defect engineering for high-performance electronic devices. Nature Nanotechnology, 2021, 16, 592-598.	31.5	74
14	A Simple Model Relating Gauge Factor to Filler Loading in Nanocomposite Strain Sensors. ACS Applied Nano Materials, 2021, 4, 2876-2886.	5.0	28
15	Printable Gâ€Putty for Frequencyâ€and Rateâ€Independent, Highâ€Performance Strain Sensors. Small, 2021, 17, e2006542.	10.0	16
16	2D nanosheets from foolâ€™s gold by LPE: High performance lithium-ion battery anodes made from stone. FlatChem, 2021, 30, 100295.	5.6	6
17	Highly Sensitive Composite Foam Bodily Sensors Based on the g-Putty Ink Soaking Procedure. ACS Applied Materials & Interfaces, 2021, 13, 60489-60497.	8.0	7
18	Developing models to fit capacityâ€“rate data in battery systems. Current Opinion in Electrochemistry, 2020, 21, 1-6.	4.8	10

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19	Electronic Polarizability as the Fundamental Variable in the Dielectric Properties of Two-Dimensional Materials. Nano Letters, 2020, 20, 841-851.	9.1	70
20	High Performance Na-O₂ Batteries and Printed Microsupercapacitors Based on Water-Processable, Biomolecule-Assisted Anodic Graphene. ACS Applied Materials & Interfaces, 2020, 12, 494-506.	8.0	32
21	In vitrolocalisation and degradation of few-layer MoS₂submicrometric plates in human macrophage-like cells: a label free Raman micro-spectroscopic study. 2D Materials, 2020, 7, 025003.	4.4	13
22	All-Printed Dielectric Capacitors from High-Permittivity, Liquid-Exfoliated BiOCl Nanosheets. ACS Applied Electronic Materials, 2020, 2, 3233-3241.	4.3	23
23	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. ACS Applied Energy Materials, 2020, 3, 10154-10163.	5.1	16
24	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. ACS Applied Energy Materials, 2020, 3, 2966-2974.	5.1	75
25	Low cost, high performance ultrafiltration membranes from glass fiber-PTFEâ€“graphene composites. Scientific Reports, 2020, 10, 21123.	3.3	8
26	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS₂) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. ACS Nano, 2020, 14, 13418-13432.	14.6	45
27	Mechanochromic and Thermochromic Sensors Based on Graphene Infused Polymer Opals. Advanced Functional Materials, 2020, 30, 2002473.	14.9	48
28	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. Energy and Environmental Science, 2020, 13, 2124-2133.	30.8	35
29	Pristine graphene induces innate immune training. Nanoscale, 2020, 12, 11192-11200.	5.6	28
30	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. Journal of Power Sources, 2020, 468, 228220.	7.8	16
31	Effect of Surfactant Choice and Concentration on the Dimensions and Yield of Liquid-Phase-Exfoliated Nanosheets. Chemistry of Materials, 2020, 32, 2852-2862.	6.7	47
32	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. ACS Nano, 2020, 14, 10976-10985.	14.6	157
33	Effect of the Gate Volume on the Performance of Printed Nanosheet Network-Based Transistors. ACS Applied Electronic Materials, 2020, 2, 2164-2170.	4.3	6
34	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
35	The Rate Performance of Two-Dimensional Material-Based Battery Electrodes May Not Be as Good as Commonly Believed. ACS Nano, 2020, 14, 3129-3140.	14.6	58
36	Selective electrochemical production of hydrogen peroxide at zigzag edges of exfoliated molybdenum telluride nanoflakes. National Science Review, 2020, 7, 1360-1366.	9.5	40

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37	Liquid phase exfoliation of GeS nanosheets in ambient conditions for lithium ion battery applications. 2D Materials, 2020, 7, 035015.	4.4	25
38	Ferroelectric Behavior in Exfoliated 2D Aurivillius Oxide Flakes of Subâ€Unit Cell Thickness. Advanced Electronic Materials, 2020, 6, 1901264.	5.1	18
39	High Charge and Discharge Rate Limitations in Ordered Macroporous Li-ion Battery Materials. Journal of the Electrochemical Society, 2020, 167, 140532.	2.9	3
40	Whiskey-phase exfoliation: exfoliation and printing of nanosheets using Irish whiskey. 2D Materials, 2019, 6, 045036.	4.4	27
41	Selfâ€Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. Advanced Functional Materials, 2019, 29, 1903120.	14.9	9
42	Quantifying the Tradeâ€Off between Absolute Capacity and Rate Performance in Battery Electrodes. Advanced Energy Materials, 2019, 9, 1901359.	19.5	43
43	Liquid phase exfoliation of carbonate-intercalated layered double hydroxides. Chemical Communications, 2019, 55, 3315-3318.	4.1	45
44	Percolation Effects in Electrolytically Gated WS₂/Graphene Nano:Nano Composites. ACS Applied Materials & Interfaces, 2019, 11, 8545-8555.	8.0	18
45	High areal capacity battery electrodes enabled by segregated nanotube networks. Nature Energy, 2019, 4, 560-567.	39.5	281
46	Negative Gauge Factor Piezoresistive Composites Based on Polymers Filled with MoS₂ Nanosheets. ACS Nano, 2019, 13, 6845-6855.	14.6	52
47	Equipartition of Energy Defines the Sizeâ€“Thickness Relationship in Liquid-Exfoliated Nanosheets. ACS Nano, 2019, 13, 7050-7061.	14.6	123
48	Quantifying the factors limiting rateÂperformance in battery electrodes. Nature Communications, 2019, 10, 1933.	12.8	185
49	Additive-free MXene inks and direct printing of micro-supercapacitors. Nature Communications, 2019, 10, 1795.	12.8	649
50	Solvent exfoliation stabilizes TiS₂ nanosheets against oxidation, facilitating lithium storage applications. Nanoscale, 2019, 11, 6206-6216.	5.6	44
51	Liquid phase exfoliation of MoO₂ nanosheets for lithium ion battery applications. Nanoscale Advances, 2019, 1, 1560-1570.	4.6	35
52	High capacity silicon anodes enabled by MXene viscous aqueous ink. Nature Communications, 2019, 10, 849.	12.8	253
53	Length- and Thickness-Dependent Optical Response of Liquid-Exfoliated Transition Metal Dichalcogenides. Chemistry of Materials, 2019, 31, 10049-10062.	6.7	57
54	Exfoliation of 2D materials by high shear mixing. 2D Materials, 2019, 6, 015008.	4.4	67

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55	Graphene-coated polymer foams as tuneable impact sensors. Nanoscale, 2018, 10, 5366-5375.	5.6	50
56	Spectroscopic Size and Thickness Metrics for Liquid-Exfoliated h-BN. Chemistry of Materials, 2018, 30, 1998-2005.	6.7	65
57	Electroconductive Biohybrid Collagen/Pristine Graphene Composite Biomaterials with Enhanced Biological Activity. Advanced Materials, 2018, 30, e1706442.	21.0	81
58	Biological recognition of graphene nanoflakes. Nature Communications, 2018, 9, 1577.	12.8	75
59	Monolayer-enriched production of Au-decorated WS2 Nanosheets via Defect Engineering. MRS Advances, 2018, 3, 2435-2440.	0.9	3
60	Liquid Exfoliated Co(OH)₂ Nanosheets as Lowâ€Cost, Yet Highâ€Performance, Catalysts for the Oxygen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1702965.	19.5	92
61	Dependence of Photocurrent Enhancements in Quantum Dot (QD)â€Sensitized MoS₂ Devices on MoS₂ Film Properties. Advanced Functional Materials, 2018, 28, 1706149.	14.9	20
62	Electrochemical water oxidation: The next five years. Current Opinion in Electrochemistry, 2018, 7, 31-35.	4.8	41
63	Charge trapping and coalescence dynamics in few layer MoS ₂. 2D Materials, 2018, 5, 015011.	4.4	20
64	Ru^{II} Photosensitizerâ€Functionalized Twoâ€Dimensional MoS₂ for Lightâ€Driven Hydrogen Evolution. Chemistry - A European Journal, 2018, 24, 351-355.	3.3	21
65	Carbon nanotubes-bridged molybdenum trioxide nanosheets as high performance anode for lithium ion batteries. 2D Materials, 2018, 5, 015024.	4.4	21
66	Nonradiative Energy Transfer and Photocurrent Enhancements in Hybrid Quantum Dot-MoS<inf>2</inf> Devices. , 2018, , .		0
67	Exfoliation in Endotoxinâ€Free Albumin Generates Pristine Graphene with Reduced Inflammatory Properties. Advanced Biology, 2018, 2, 1800102.	3.0	9
68	Non-resonant light scattering in dispersions of 2D nanosheets. Nature Communications, 2018, 9, 4553.	12.8	51
69	The Effect of Network Formation on the Mechanical Properties of 1D:2D Nano:Nano Composites. Chemistry of Materials, 2018, 30, 5245-5255.	6.7	33
70	Optimising composite viscosity leads to high sensitivity electromechancial sensors. 2D Materials, 2018, 5, 035042.	4.4	16
71	Quantifying the Role of Nanotubes in Nano:Nano Composite Supercapacitor Electrodes. Advanced Energy Materials, 2018, 8, 1702364.	19.5	33
72	Probing the local nature of excitons and plasmons in few-layer MoS2. Npj 2D Materials and Applications, 2017, 1, .	7.9	58

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73	Industrial grade 2D molybdenum disulphide (MoS ₂): an in vitro exploration of the impact on cellular uptake, cytotoxicity, and inflammation. 2D Materials, 2017, 4, 025065.	4.4	57
74	Exploring the versatility of liquid phase exfoliation: producing 2D nanosheets from talcum powder, cat litter and beach sand. 2D Materials, 2017, 4, 025054.	4.4	39
75	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. Science, 2017, 356, 69-73.	12.6	391
76	The dependence of the measured surface energy of graphene on nanosheet size. 2D Materials, 2017, 4, 015040.	4.4	17
77	Light scattering and random lasing in aqueous suspensions of hexagonal boron nitride nanoflakes. Nanotechnology, 2017, 28, 47LT02.	2.6	7
78	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. Advanced Materials, 2017, 29, 1702678.	21.0	756
79	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. Npj 2D Materials and Applications, 2017, 1, .	7.9	3
80	Enabling Flexible Heterostructures for Liâ€Ion Battery Anodes Based on Nanotube and Liquidâ€Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. Small, 2017, 13, 1701677.	10.0	71
81	Tuneable photoconductivity and mobility enhancement in printed MoS ₂ /graphene composites. 2D Materials, 2017, 4, 041006.	4.4	13
82	Surface coatings of silver nanowires lead to effective, high conductivity, high-strain, ultrathin sensors. Nanoscale, 2017, 9, 18507-18515.	5.6	48
83	Robustness of Size Selection and Spectroscopic Size, Thickness and Monolayer Metrics of Liquidâ€Exfoliated WS₂. Physica Status Solidi (B): Basic Research, 2017, 254, 1700443.	1.5	26
84	Cobalt hydroxide nanoflakes and their application as supercapacitors and oxygen evolution catalysts. Nanotechnology, 2017, 28, 375401.	2.6	33
85	Liquid exfoliation of interlayer spacing-tunable 2D vanadium oxide nanosheets: High capacity and rate handling Li-ion battery cathodes. Nano Energy, 2017, 39, 151-161.	16.0	123
86	Guidelines for Exfoliation, Characterization and Processing of Layered Materials Produced by Liquid Exfoliation. Chemistry of Materials, 2017, 29, 243-255.	6.7	401
87	An investigation of the energy storage properties of a 2D Î± -MoO ₃ -SWCNTs composite films. 2D Materials, 2017, 4, 015005.	4.4	20
88	Production of monolayer-rich gold-decorated 2Hâ€“WS2 nanosheets by defect engineering. Npj 2D Materials and Applications, 2017, 1, .	7.9	22
89	Size-dependent saturable absorption and mode-locking of dispersed black phosphorus nanosheets. Optical Materials Express, 2016, 6, 3159.	3.0	44
90	2Dâ€Crystalâ€Based Functional Inks. Advanced Materials, 2016, 28, 6136-6166.	21.0	371

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91	Photoluminescence from Liquidâ€Exfoliated WS₂ Monomers in Poly(Vinyl Alcohol) Polymer Composites. Advanced Functional Materials, 2016, 26, 1028-1039.	14.9	73
92	White Graphene undergoes Peroxidase Degradation. Angewandte Chemie, 2016, 128, 5596-5601.	2.0	19
93	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. Science, 2016, 354, 1257-1260.	12.6	676
94	All-printed capacitors from graphene-BN-graphene nanosheet heterostructures. Applied Physics Letters, 2016, 109, .	3.3	68
95	Long-chain amine-templated synthesis of gallium sulfide and gallium selenide nanotubes. Nanoscale, 2016, 8, 11698-11706.	5.6	11
96	Electrical, Mechanical, and Capacity Percolation Leads to High-Performance MoS₂/Nanotube Composite Lithium Ion Battery Electrodes. ACS Nano, 2016, 10, 5980-5990.	14.6	159
97	Sub-5 nm graphene nanopore fabrication by nitrogen ion etching induced by a low-energy electron beam. Nanotechnology, 2016, 27, 195302.	2.6	13
98	Revealing the nature of excitons in liquid exfoliated monolayer tungsten disulphide. Nanotechnology, 2016, 27, 425701.	2.6	13
99	Slow and fast absorption saturation of black phosphorus: experiment and modelling. Nanoscale, 2016, 8, 17374-17382.	5.6	46
100	Highly Conductive Graphene and Polyelectrolyte Multilayer Thin Films Produced From Aqueous Suspension. Macromolecular Rapid Communications, 2016, 37, 1790-1794.	3.9	6
101	Differentiating Defect and Basal Plane Contributions to the Surface Energy of Graphite Using Inverse Gas Chromatography. Chemistry of Materials, 2016, 28, 6355-6366.	6.7	27
102	Highly flexible and transparent solid-state supercapacitors based on RuO2/PEDOT:PSS conductive ultrathin films. Nano Energy, 2016, 28, 495-505.	16.0	247
103	Liquid Phase Exfoliated MoS₂ Nanosheets Percolated with Carbon Nanotubes for High Volumetric/Areal Capacity Sodium-Ion Batteries. ACS Nano, 2016, 10, 8821-8828.	14.6	258
104	Relating the optical absorption coefficient of nanosheet dispersions to the intrinsic monolayer absorption. Carbon, 2016, 107, 733-738.	10.3	35
105	Mapping of Low-Frequency Raman Modes in CVD-Grown Transition Metal Dichalcogenides: Layer Number, Stacking Orientation and Resonant Effects. Scientific Reports, 2016, 6, 19476.	3.3	111
106	Preparation of Liquid-exfoliated Transition Metal Dichalcogenide Nanosheets with Controlled Size and Thickness: A State of the Art Protocol. Journal of Visualized Experiments, 2016, , .	0.3	23
107	Production of Twoâ€Dimensional Nanomaterials via Liquidâ€Based Direct Exfoliation. Small, 2016, 12, 272-293.	10.0	407
108	White Graphene undergoes Peroxidase Degradation. Angewandte Chemie - International Edition, 2016, 55, 5506-5511.	13.8	67

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109	Ultrafast Nonlinear Excitation Dynamics of Black Phosphorus Nanosheets from Visible to Mid-Infrared. ACS Nano, 2016, 10, 6923-6932.	14.6	231
110	Production of Ni(OH)₂nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. Journal of Materials Chemistry A, 2016, 4, 11046-11059.	10.3	71
111	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. RSC Advances, 2016, 6, 65299-65310.	3.6	13
112	Materials science of graphene: a flagship perspective. 2D Materials, 2016, 3, 010401.	4.4	19
113	High stiffness nano-composite fibres from polyvinylalcohol filled with graphene and boron nitride. Carbon, 2016, 99, 280-288.	10.3	40
114	Thickness Dependence and Percolation Scaling of Hydrogen Production Rate in MoS₂ Nanosheet and Nanosheetâ€“Carbon Nanotube Composite Catalytic Electrodes. ACS Nano, 2016, 10, 672-683.	14.6	116
115	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. Biomacromolecules, 2016, 17, 1845-1853.	5.4	29
116	Electrochemical Applications of Two-Dimensional Nanosheets: The Effect of Nanosheet Length and Thickness. Chemistry of Materials, 2016, 28, 2641-2651.	6.7	95
117	Comparison of liquid exfoliated transition metal dichalcogenides reveals MoSe₂to be the most effective hydrogen evolution catalyst. Nanoscale, 2016, 8, 5737-5749.	5.6	127
118	Spectroscopic metrics allow in situ measurement of mean size and thickness of liquid-exfoliated few-layer graphene nanosheets. Nanoscale, 2016, 8, 4311-4323.	5.6	194
119	Graphene-MoS₂nanosheet composites as electrodes for dye sensitised solar cells. Materials Research Express, 2016, 3, 035007.	1.6	12
120	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. ACS Nano, 2016, 10, 3702-3713.	14.6	394
121	Graphene oxide and graphene nanosheet reinforced aluminium matrix composites: Powder synthesis and prepared composite characteristics. Materials and Design, 2016, 94, 87-94.	7.0	176
122	Production of Highly Monolayer Enriched Dispersions of Liquid-Exfoliated Nanosheets by Liquid Cascade Centrifugation. ACS Nano, 2016, 10, 1589-1601.	14.6	365
123	Low wavenumber Raman spectroscopy of highly crystalline MoSe₂grown by chemical vapor deposition. Physica Status Solidi (B): Basic Research, 2015, 252, 2385-2389.	1.5	29
124	Yielding and flow of highly concentrated, few-layer graphene suspensions. Soft Matter, 2015, 11, 3159-3164.	2.7	17
125	Low wavenumber Raman spectroscopy of highly crystalline MoSe2 grown by chemical vapor deposition (Phys. Status Solidi B 11/2015). Physica Status Solidi (B): Basic Research, 2015, 252, .	1.5	0
126	Boron nitride nanosheets as barrier enhancing fillers in melt processed composites. Nanoscale, 2015, 7, 4443-4450.	5.6	56

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127	Functionalization of Liquidâ€Exfoliated Twoâ€Dimensional 2Hâ€MoS₂. Angewandte Chemie - International Edition, 2015, 54, 2638-2642.	13.8	219
128	Functionalization of Liquidâ€Exfoliated Twoâ€Dimensional 2Hâ€MoS₂. Angewandte Chemie, 2015, 127, 2676-2680.	2.0	35
129	Large-Scale Production of Size-Controlled MoS₂ Nanosheets by Shear Exfoliation. Chemistry of Materials, 2015, 27, 1129-1139.	6.7	389
130	Nanopatterning and Electrical Tuning of MoS₂ Layers with a Subnanometer Helium Ion Beam. Nano Letters, 2015, 15, 5307-5313.	9.1	171
131	Avoiding Resistance Limitations in High-Performance Transparent Supercapacitor Electrodes Based on Large-Area, High-Conductivity PEDOT:PSS Films. ACS Applied Materials & Interfaces, 2015, 7, 16495-16506.	8.0	136
132	Inkjet Printing of Silver Nanowire Networks. ACS Applied Materials & Interfaces, 2015, 7, 9254-9261.	8.0	235
133	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. ACS Nano, 2015, 9, 6018-6030.	14.6	293
134	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. Chemistry of Materials, 2015, 27, 3483-3493.	6.7	195
135	Tunable nonlinear refractive index of two-dimensional MoS_2, WS_2, and MoSe_2 nanosheet dispersions [Invited]. Photonics Research, 2015, 3, A51.	7.0	146
136	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. Nature Communications, 2015, 6, 8563.	12.8	921
137	Ultrafast Nonlinear Absorption and Nonlinear Refraction of 2D Layered Molybdenum Dichalcogenide Semiconductors. , 2015, , .		1
138	Large variations in both dark- and photoconductivity in nanosheet networks as nanomaterial is varied from MoS₂to WTe₂. Nanoscale, 2015, 7, 198-208.	5.6	76
139	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	5.6	2,452
140	Dibromocarbene Functionalization of Boron Nitride Nanosheets: Toward Band Gap Manipulation and Nanocomposite Applications. Chemistry of Materials, 2014, 26, 7039-7050.	6.7	82
141	Enhancing the mechanical properties of BN nanosheetâ€“polymer composites by uniaxial drawing. Nanoscale, 2014, 6, 4889.	5.6	85
142	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. Nature Materials, 2014, 13, 624-630.	27.5	1,958
143	Relationship between Material Properties and Transparent Heater Performance for Both Bulk-like and Percolative Nanostructured Networks. ACS Nano, 2014, 8, 4805-4814.	14.6	132
144	Inkjet deposition of liquid-exfoliated graphene and MoS₂nanosheets for printed device applications. Journal of Materials Chemistry C, 2014, 2, 925-932.	5.5	256

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145	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. Chemistry of Materials, 2014, 26, 1751-1763.	6.7	266
146	Sensitive, High-Strain, High-Rate Bodily Motion Sensors Based on Grapheneâ€“Rubber Composites. ACS Nano, 2014, 8, 8819-8830.	14.6	708
147	Broadband ultrafast nonlinear absorption and nonlinear refraction of layered molybdenum dichalcogenide semiconductors. Nanoscale, 2014, 6, 10530-10535.	5.6	328
148	Reinforcement in melt-processed polymerâ€“graphene composites at extremely low graphene loading level. Carbon, 2014, 78, 243-249.	10.3	136
149	Experimental and Theoretical Study of the Influence of the State of Dispersion of Graphene on the Percolation Threshold of Conductive Graphene/Polystyrene Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 15113-15121.	8.0	41
150	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. Nature Communications, 2014, 5, 4576.	12.8	432
151	Turbulence-assisted shear exfoliation of graphene using household detergent and a kitchen blender. Nanoscale, 2014, 6, 11810-11819.	5.6	241
152	Insulatorâ€Conductor Type Transitions in Grapheneâ€Modified Silver Nanowire Networks: A Route to Inexpensive Transparent Conductors. Advanced Functional Materials, 2014, 24, 7580-7587.	14.9	33
153	Effect of Percolation on the Capacitance of Supercapacitor Electrodes Prepared from Composites of Manganese Dioxide Nanoplatelets and Carbon Nanotubes. ACS Nano, 2014, 8, 9567-9579.	14.6	89
154	Electrifying inks with 2D materials. Nature Nanotechnology, 2014, 9, 738-739.	31.5	116
155	Transparent Conductors: Insulatorâ€Conductor Type Transitions in Grapheneâ€Modified Silver Nanowire Networks: A Route to Inexpensive Transparent Conductors (Adv. Funct. Mater. 48/2014). Advanced Functional Materials, 2014, 24, 7562-7562.	14.9	0
156	Transition Metal Dichalcogenide Growth via Close Proximity Precursor Supply. Scientific Reports, 2014, 4, 7374.	3.3	72
157	Generalizing solubility parameter theory to apply to oneâ€and twoâ€dimensional solutes and to incorporate dipolar interactions. Journal of Applied Polymer Science, 2013, 127, 4483-4491.	2.6	74
158	Polymer reinforcement using liquid-exfoliated boron nitride nanosheets. Nanoscale, 2013, 5, 581-587.	5.6	181
159	A Technique To Pretreat Graphite Which Allows the Rapid Dispersion of Defect-Free Graphene in Solvents at High Concentration. Journal of Physical Chemistry C, 2013, 117, 19212-19218.	3.1	51
160	Ultrafast Saturable Absorption of Two-Dimensional MoS₂ Nanosheets. ACS Nano, 2013, 7, 9260-9267.	14.6	905
161	Helium ion microscopy of graphene: beam damage, image quality and edge contrast. Nanotechnology, 2013, 24, 335702.	2.6	68
162	Liquid Exfoliation of Layered Materials. Science, 2013, 340, .	12.6	3,109

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163	Photoconductivity of solution-processed MoS2 films. Journal of Materials Chemistry C, 2013, 1, 6899.	5.5	99
164	Density controlled conductivity of pristine graphene films. Carbon, 2013, 64, 435-443.	10.3	22
165	Reinforcement of metal with liquid-exfoliated inorganic nano-platelets. Applied Physics Letters, 2013, 103, 163106.	3.3	14
166	Improving the mechanical properties of graphene oxide based materials by covalent attachment of polymer chains. Carbon, 2013, 52, 363-371.	10.3	232
167	Thermoelectric behavior of organic thin film nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 119-123.	2.1	111
168	Development of MoS₂â€“CNT Composite Thin Film from Layered MoS₂ for Lithium Batteries. Advanced Energy Materials, 2013, 3, 798-805.	19.5	282
169	Improved Adhesive Strength and Toughness of Polyvinyl Acetate Glue on Addition of Small Quantities of Graphene. ACS Applied Materials & Interfaces, 2013, 5, 1423-1428.	8.0	112
170	Measuring the lateral size of liquid-exfoliated nanosheets with dynamic light scattering. Nanotechnology, 2013, 24, 265703.	2.6	214
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