James M Tour

List of Publications by Year
in descending order

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557 papers	84,877 citations	256 142 h-index	443 274 g-index
575 all docs	575 docs citations	575 times ranked	67065 citing authors

#	Article	IF	Citations
1	Largeâ€Scale Syntheses of 2D Materials: Flash Joule Heating and Other Methods. Advanced Materials, 2022, 34, e2106970.	21.0	66
2	Phase controlled synthesis of transition metal carbide nanocrystals by ultrafast flash Joule heating. Nature Communications, 2022, 13, 262.	12.8	52
3	Sounds of Synthesis: Acoustic Realâ€Time Analysis of Laserâ€Induced Graphene. Advanced Functional Materials, 2022, 32, .	14.9	7
4	Machine Learning Guided Synthesis of Flash Graphene. Advanced Materials, 2022, 34, e2106506.	21.0	39
5	Molecular electronics sensors on a scalable semiconductor chip: A platform for single-molecule measurement of binding kinetics and enzyme activity. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	34
6	Abstract WP253: Increased Hydrogen Sulfide As A New Mechanism For Hyperglycemic Worsening Of Stroke Outcome. Stroke, 2022, 53, .	2.0	0
7	Atomic Molybdenum for Synthesis of Ammonia with 50% Faradic Efficiency. Small, 2022, 18, e2106327.	10.0	20
8	Heteroatom-Doped Flash Graphene. ACS Nano, 2022, 16, 6646-6656.	14.6	46
9	Plastic Waste Product Captures Carbon Dioxide in Nanometer Pores. ACS Nano, 2022, 16, 7284-7290.	14.6	32
10	Holey and Wrinkled Flash Graphene from Mixed Plastic Waste. ACS Nano, 2022, 16, 7804-7815.	14.6	20
11	Rare earth elements from waste. Science Advances, 2022, 8, eabm3132.	10.3	49
12	Advances in nanomaterials for sulfurized carbon cathodes. , 2022, , 241-270.		0
13	Upcycling end-of-life vehicle waste plastic into flash graphene. , 2022, 1, .		28
14	Inverted Conformation Stability of a Motor Molecule on a Metal Surface. Journal of Physical Chemistry C, 2022, 126, 9034-9040.	3.1	5
15	Light-activated molecular machines are fast-acting broad-spectrum antibacterials that target the membrane. Science Advances, 2022, 8, .	10.3	28
16	A Storm in a Primordial Teacup. Inference, 2022, 7, .	0.0	0
17	Brushed Metals for Rechargeable Metal Batteries. Advanced Materials, 2022, 34, .	21.0	11
18	Turbostratic Boronâ€“Carbonâ€“Nitrogen and Boron Nitride by Flash Joule Heating. Advanced Materials, 2022, 34, .	21.0	10

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19	Millisecond Conversion of Metastable 2D Materials by Flash Joule Heating. ACS Nano, 2021, 15, 1282-1290.	14.6	48
20	Hydrogen Peroxide Generation with 100% Faradaic Efficiency on Metal-Free Carbon Black. ACS Catalysis, 2021, 11, 2454-2459.	11.2	98
21	What Can be Expected from â€œAnodeâ€Freeâ€•Lithium Metal Batteries?. Advanced Energy and Sustainability Research, 2021, 2, 2000110.	5.8	36
22	Abstract P792: Therapeutic Catalytic Nanoantioxidants Derived From Activated Charcoal. Stroke, 2021, 52, .	2.0	0
23	Converting plastic waste pyrolysis ash into flash graphene. Carbon, 2021, 174, 430-438.	10.3	62
24	High-Resolution Laser-Induced Graphene from Photoresist. ACS Nano, 2021, 15, 8976-8983.	14.6	43
25	Metalâ€Free Electrocatalysts for Oxygen Reduction to Hydrogen Peroxide. Advanced Energy and Sustainability Research, 2021, 2, 2100021.	5.8	7
26	Bulk Production of Any Ratio ¹²C:¹³C Turbostratic Flash Graphene and Its Unusual Spectroscopic Characteristics. ACS Nano, 2021, 15, 10542-10552.	14.6	17
27	Ultrafast and Controllable Phase Evolution by Flash Joule Heating. ACS Nano, 2021, 15, 11158-11167.	14.6	38
28	Flash graphene from rubber waste. Carbon, 2021, 178, 649-656.	10.3	64
29	Ei-ichi Negishi 1935â€“2021: The carbonâ€“carbon bond-maker. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2113149118.	7.1	0
30	Tuning Metal Elements in Open Frameworks for Efficient Oxygen Evolution and Oxygen Reduction Reaction Catalysts. ACS Applied Materials & Interfaces, 2021, 13, 42715-42723.	8.0	17
31	Bioinspired Redox Mediator in Lithiumâ€“Oxygen Batteries. ACS Catalysis, 2021, 11, 1833-1840.	11.2	11
32	Urban mining by flash Joule heating. Nature Communications, 2021, 12, 5794.	12.8	35
33	The Future of Flash Graphene for the Sustainable Management of Solid Waste. ACS Nano, 2021, 15, 15461-15470.	14.6	40
34	Laser-induced graphene and carbon nanotubes as conductive carbon-based materials in environmental technology. Materials Today, 2020, 34, 115-131.	14.2	77
35	New insights into the mechanism of graphene oxide and radionuclide interaction. Carbon, 2020, 158, 291-302.	10.3	37
36	Revisiting the intersection of amyloid, pathologically modified tau and iron in Alzheimerâ€™s disease from a ferroptosis perspective. Progress in Neurobiology, 2020, 184, 101716.	5.7	98

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37	Top-down synthesis of graphene nanoribbons using different sources of carbon nanotubes. Carbon, 2020, 158, 615-623.	10.3	33
38	Quasi-Solid-State Liâ€“O₂ Batteries with Laser-Induced Graphene Cathode Catalysts. ACS Applied Energy Materials, 2020, 3, 1702-1709.	5.1	18
39	Light-Activated Organic Molecular Motors and Their Applications. Chemical Reviews, 2020, 120, 79-124.	47.7	152
40	Visible-Light-Activated Molecular Nanomachines Kill Pancreatic Cancer Cells. ACS Applied Materials & Interfaces, 2020, 12, 410-417.	8.0	24
41	Nanocars with Permanent Dipoles: Preparing for the Second International Nanocar Race. Journal of Organic Chemistry, 2020, 85, 13644-13654.	3.2	13
42	Antioxidant Carbon Nanoparticles Inhibit Fibroblast-Like Synoviocyte Invasiveness and Reduce Disease Severity in a Rat Model of Rheumatoid Arthritis. Antioxidants, 2020, 9, 1005.	5.1	3
43	Flash Graphene from Plastic Waste. ACS Nano, 2020, 14, 15595-15604.	14.6	132
44	CO₂ to Formic Acid Using Cuâ€“Sn on Laser-Induced Graphene. ACS Applied Materials & Interfaces, 2020, 12, 41223-41229.	8.0	48
45	Flash Graphene Morphologies. ACS Nano, 2020, 14, 13691-13699.	14.6	78
46	The Chemical Basis of Intracerebral Hemorrhage and Cell Toxicity With Contributions From Eryptosis and Ferroptosis. Frontiers in Cellular Neuroscience, 2020, 14, 603043.	3.7	17
47	Adsorption and Motion of Single Molecular Motors on TiO2(110). Journal of Physical Chemistry C, 2020, 124, 24776-24785.	3.1	5
48	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. Nature Nanotechnology, 2020, 15, 164-166.	31.5	69
49	Oxidized Activated Charcoal Nanoparticles as Catalytic Superoxide Dismutase Mimetics: Evidence for Direct Participation of an Intrinsic Radical. ACS Applied Nano Materials, 2020, 3, 6962-6971.	5.0	16
50	Laserâ€Induced Silicon Oxide for Anodeâ€Free Lithium Metal Batteries. Advanced Materials, 2020, 32, e2002850.	21.0	92
51	Molecular Nanomachines Can Destroy Tissue or Kill Multicellular Eukaryotes. ACS Applied Materials & Interfaces, 2020, 12, 13657-13670.	8.0	16
52	High-Resolution Laser-Induced Graphene. Flexible Electronics beyond the Visible Limit. ACS Applied Materials & Interfaces, 2020, 12, 10902-10907.	8.0	129
53	Pervasive Genomic Damage in Experimental Intracerebral Hemorrhage: Therapeutic Potential of a Mechanistic-Based Carbon Nanoparticle. ACS Nano, 2020, 14, 2827-2846.	14.6	45
54	Use of a bioengineered antioxidant in mouse models of metabolic syndrome. Expert Opinion on Investigational Drugs, 2020, 29, 209-219.	4.1	1

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55	Gram-scale bottom-up flash graphene synthesis. Nature, 2020, 577, 647-651.	27.8	438
56	Laminated Laser-Induced Graphene Composites. ACS Nano, 2020, 14, 7911-7919.	14.6	64
57	Liâ€Breathing Air Batteries Catalyzed by MnNiFe/Laserâ€Induced Graphene Catalysts. Advanced Materials Interfaces, 2019, 6, 1901035.	3.7	26
58	Stage Transitions in Graphite Intercalation Compounds: Role of the Graphite Structure. Journal of Physical Chemistry C, 2019, 123, 19246-19253.	3.1	32
59	Sustainable Synthesis of Bright Green Fluorescent Nitrogenâ€Doped Carbon Quantum Dots from Alkali Lignin. ChemSusChem, 2019, 12, 4202-4210.	6.8	92
60	Two-Dimensional Lateral Epitaxy of 2H (MoSe₂)â€“1Tâ€² (ReSe₂) Phases. Nano Letters, 2019, 19, 6338-6345.	9.1	30
61	How to control single-molecule rotation. Nature Communications, 2019, 10, 4631.	12.8	61
62	Atomic Ru Immobilized on Porous h-BN through Simple Vacuum Filtration for Highly Active and Selective CO₂ Methanation. ACS Catalysis, 2019, 9, 10077-10086.	11.2	93
63	Strain-controlled optical transmittance tuning of three-dimensional carbon nanotube architectures. Journal of Materials Chemistry C, 2019, 7, 1927-1933.	5.5	3
64	Pore Characteristics for Efficient CO₂ Storage in Hydrated Carbons. ACS Applied Materials & Interfaces, 2019, 11, 44390-44398.	8.0	18
65	Critical Comparison of the Superoxide Dismutase-like Activity of Carbon Antioxidant Nanozymes by Direct Superoxide Consumption Kinetic Measurements. ACS Nano, 2019, 13, 11203-11213.	14.6	44
66	Graphene at Fifteen. ACS Nano, 2019, 13, 10872-10878.	14.6	92
67	Self-Sterilizing Laser-Induced Graphene Bacterial Air Filter. ACS Nano, 2019, 13, 11912-11920.	14.6	112
68	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. Advanced Materials, 2019, 31, e1805778.	21.0	69
69	Functional and Structural Improvement with a Catalytic Carbon Nano-Antioxidant in Experimental Traumatic Brain Injury Complicated by Hypotension and Resuscitation. Journal of Neurotrauma, 2019, 36, 2139-2146.	3.4	6
70	Near-Infrared Light Activates Molecular Nanomachines to Drill into and Kill Cells. ACS Nano, 2019, 13, 6813-6823.	14.6	39
71	Catalytic oxidation and reduction reactions of hydrophilic carbon clusters with NADH and cytochrome C: features of an electron transport nanozyme. Nanoscale, 2019, 11, 10791-10807.	5.6	15
72	Laser-Induced Graphene Triboelectric Nanogenerators. ACS Nano, 2019, 13, 7166-7174.	14.6	181

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73	Graphene Art. ACS Applied Nano Materials, 2019, 2, 3007-3011.	5.0	26
74	Less is more. Nature Nanotechnology, 2019, 14, 500-501.	31.5	4
75	Highly Oxidized Graphene Quantum Dots from Coal as Efficient Antioxidants. ACS Applied Materials & Interfaces, 2019, 11, 16815-16821.	8.0	61
76	Laser-Induced Graphene for Flexible and Embeddable Gas Sensors. ACS Nano, 2019, 13, 3474-3482.	14.6	226
77	Inducible lung epithelial resistance requires multisource reactive oxygen species generation to protect against bacterial infections. PLoS ONE, 2019, 14, e0208216.	2.5	22
78	Laser-Induced Graphene Composites as Multifunctional Surfaces. ACS Nano, 2019, 13, 2579-2586.	14.6	127
79	Detecting Li Dendrites in a Twoâ€Electrode Battery System. Advanced Materials, 2019, 31, e1807405.	21.0	38
80	Enteral Activation of WR-2721 Mediates Radioprotection and Improved Survival from Lethal Fractionated Radiation. Scientific Reports, 2019, 9, 1949.	3.3	13
81	Molecular Nanomachines Disrupt Bacterial Cell Wall, Increasing Sensitivity of Extensively Drug-Resistant Klebsiella pneumoniae to Meropenem. ACS Nano, 2019, 13, 14377-14387.	14.6	42
82	Enhancing Photostability of Fluorescent Dye-Attached Molecular Machines at Airâ€“Glass Interface Using Cyclooctatetraene. Journal of Physical Chemistry C, 2019, 123, 3011-3018.	3.1	5
83	Laser-Induced Graphene Hybrid Catalysts for Rechargeable Zn-Air Batteries. ACS Applied Energy Materials, 2019, 2, 1460-1468.	5.1	55
84	Laserâ€Induced Graphene: From Discovery to Translation. Advanced Materials, 2019, 31, e1803621.	21.0	512
85	Hybrid MoS2/h-BN Nanofillers As Synergic Heat Dissipation and Reinforcement Additives in Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2019, 11, 24485-24492.	8.0	38
86	Abstract WP352: Mitochondrial Electron Transport Support as a New Mechanism of Action of Carbon Nano-particles in the Treatment of Stroke. Stroke, 2019, 50, .	2.0	0
87	Time Out. Inference, 2019, 4, .	0.0	0
88	Manganese deception on graphene and implications in catalysis. Carbon, 2018, 132, 623-631.	10.3	54
89	Oxidized Laserâ€Induced Graphene for Efficient Oxygen Electrocatalysis. Advanced Materials, 2018, 30, e1707319.	21.0	94
90	Singular wavelength dependence on the sensitization of lanthanides by graphene quantum dots. Chemical Communications, 2018, 54, 4325-4328.	4.1	5

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91	In Situ Synthesis of Efficient Water Oxidation Catalysts in Laser-Induced Graphene. ACS Energy Letters, 2018, 3, 677-683.	17.4	91
92	Laser-Induced Graphene by Multiple Lasing: Toward Electronics on Cloth, Paper, and Food. ACS Nano, 2018, 12, 2176-2183.	14.6	607
93	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. MRS Advances, 2018, 3, 61-66.	0.9	2
94	High-yield single-step catalytic growth of graphene nanostripes by plasma enhanced chemical vapor deposition. Carbon, 2018, 129, 527-536.	10.3	20
95	Laser-Induced Conversion of Teflon into Fluorinated Nanodiamonds or Fluorinated Graphene. ACS Nano, 2018, 12, 1083-1088.	14.6	91
96	A fast and zero-biased photodetector based on GaTeâ€“InSe vertical 2D pâ€“n heterojunction. 2D Materials, 2018, 5, 025008.	4.4	81
97	Directly deposited porous two-dimensional MoS 2 films as electrocatalysts for hydrogen evolution reactions. Materials Letters, 2018, 225, 65-68.	2.6	17
98	Lowâ€Temperatureâ€Processed SiO_x One Diodeâ€“One Resistor Crossbar Array and Its Flexible Memory Application. Advanced Electronic Materials, 2018, 4, 1700665.	5.1	19
99	Electrochemical CO₂ Reduction with Atomic Ironâ€Dispersed on Nitrogenâ€Doped Graphene. Advanced Energy Materials, 2018, 8, 1703487.	19.5	369
100	Revisiting the Mechanism of Oxidative Unzipping of Multiwall Carbon Nanotubes to Graphene Nanoribbons. ACS Nano, 2018, 12, 3985-3993.	14.6	88
101	Transfer of Dyes and Drugs into Cells Using EGFR-Targeted Nanosyringes. ACS Chemical Neuroscience, 2018, 9, 107-117.	3.5	4
102	Laser-induced graphene fibers. Carbon, 2018, 126, 472-479.	10.3	287
103	Sulfur-Doped Laser-Induced Porous Graphene Derived from Polysulfone-Class Polymers and Membranes. ACS Nano, 2018, 12, 289-297.	14.6	211
104	Ultra-Stiff Graphene Foams as Three-Dimensional Conductive Fillers for Epoxy Resin. ACS Nano, 2018, 12, 11219-11228.	14.6	37
105	Atomic approaches towards stability. Nature Catalysis, 2018, 1, 900-902.	34.4	10
106	Tip-Sonicated Red Phosphorus-Graphene Nanoribbon Composite for Full Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38936-38943.	8.0	11
107	Suppressing Li Metal Dendrites Through a Solid Liâ€Ion Backup Layer. Advanced Materials, 2018, 30, e1803869.	21.0	70
108	Efficient removal of bisphenol-A by ultra-high surface area porous activated carbon derived from asphalt. Carbon, 2018, 140, 441-448.	10.3	67

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109	Inducible Lung Epithelial Resistance Requires Multisource Reactive Oxygen Species Generation To Protect against Viral Infections. MBio, 2018, 9, .	4.1	32
110	Laminated Object Manufacturing of 3Dâ€Printed Laserâ€Induced Graphene Foams. Advanced Materials, 2018, 30, e1707416.	21.0	172
111	Toughening Graphene by Integrating Carbon Nanotubes. ACS Nano, 2018, 12, 7901-7910.	14.6	52
112	Diffusion of Nanocars on an Airâ€“Glass Interface. Journal of Physical Chemistry C, 2018, 122, 19025-19036.	3.1	15
113	Laser-induced graphene synthesis of Co3O4 in graphene for oxygen electrocatalysis and metal-air batteries. Carbon, 2018, 139, 880-887.	10.3	91
114	Efficacy of Novel Carbon Nanoparticle Antioxidant Therapy in a Severe Model of Reversible Middle Cerebral Artery Stroke in Acutely Hyperglycemic Rats. Frontiers in Neurology, 2018, 9, 199.	2.4	37
115	Laser-Induced Graphene from Wood Impregnated with Metal Salts and Use in Electrocatalysis. ACS Applied Nano Materials, 2018, 1, 5053-5061.	5.0	95
116	Achieving Selfâ€Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amineâ€Functionalized Ovalbumin. Advanced Materials Interfaces, 2018, 5, 1800932.	3.7	5
117	Laser-Induced Graphene. Accounts of Chemical Research, 2018, 51, 1609-1620.	15.6	441
118	Effect of Graphene Nanoribbons (TexasPEG) on locomotor function recovery in a rat model of lumbar spinal cord transection. Neural Regeneration Research, 2018, 13, 1440.	3.0	16
119	Oxidatively modified carbon as efficient material for removing radionuclides from water. Carbon, 2017, 115, 394-401.	10.3	27
120	Segregation of Amphiphilic Polymer-Coated Nanoparticles to Bicontinuous Oil/Water Microemulsion Phases. Energy & Fuels, 2017, 31, 1339-1346.	5.1	23
121	Perylene Diimide as a Precise Graphene-like Superoxide Dismutase Mimetic. ACS Nano, 2017, 11, 2024-2032.	14.6	59
122	High Performance Electrocatalytic Reaction of Hydrogen and Oxygen on Ruthenium Nanoclusters. ACS Applied Materials & Interfaces, 2017, 9, 3785-3791.	8.0	108
123	In situ mechanical investigation of carbon nanotubeâ€“graphene junction in three-dimensional carbon nanostructures. Nanoscale, 2017, 9, 2916-2924.	5.6	41
124	Three-Dimensional Rebar Graphene. ACS Applied Materials & Interfaces, 2017, 9, 7376-7384.	8.0	46
125	Graphene Carbon Nanotube Carpets Grown Using Binary Catalysts for High-Performance Lithium-Ion Capacitors. ACS Nano, 2017, 11, 2724-2733.	14.6	91
126	High Toughness in Ultralow Density Graphene Oxide Foam. Advanced Materials Interfaces, 2017, 4, 1700030.	3.7	20

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127	Laserâ€Induced Graphene in Controlled Atmospheres: From Superhydrophilic to Superhydrophobic Surfaces. Advanced Materials, 2017, 29, 1700496.	21.0	227
128	Lithium Batteries with Nearly Maximum Metal Storage. ACS Nano, 2017, 11, 6362-6369.	14.6	180
129	Laser-Induced Graphene Layers and Electrodes Prevents Microbial Fouling and Exerts Antimicrobial Action. ACS Applied Materials & Interfaces, 2017, 9, 18238-18247.	8.0	176
130	Three-Dimensional Printed Graphene Foams. ACS Nano, 2017, 11, 6860-6867.	14.6	172
131	Atomic H-Induced Mo₂C Hybrid as an Active and Stable Bifunctional Electrocatalyst. ACS Nano, 2017, 11, 384-394.	14.6	149
132	Increased solubility and fiber spinning of graphenide dispersions aided by crown-ethers. Chemical Communications, 2017, 53, 1498-1501.	4.1	6
133	Ultrafast Charging High Capacity Asphaltâ€“Lithium Metal Batteries. ACS Nano, 2017, 11, 10761-10767.	14.6	80
134	Molecular machines open cell membranes. Nature, 2017, 548, 567-572.	27.8	257
135	Structurally Engineered Nanoporous Ta₂O_{5â€“x} Selector-Less Memristor for High Uniformity and Low Power Consumption. ACS Applied Materials & Interfaces, 2017, 9, 34015-34023.	8.0	18
136	Polyimide derived laser-induced graphene as adsorbent for cationic and anionic dyes. Carbon, 2017, 124, 515-524.	10.3	88
137	Laserâ€Induced Graphene Formation on Wood. Advanced Materials, 2017, 29, 1702211.	21.0	397
138	Germanium on seamless graphene carbon nanotube hybrids for lithium ion anodes. Carbon, 2017, 123, 433-439.	10.3	35
139	DMFC catalyst with single Ru atoms on graphene matches Pt. Fuel Cells Bulletin, 2017, 2017, 15.	0.1	3
140	Efficient Water-Splitting Electrodes Based on Laser-Induced Graphene. ACS Applied Materials & Interfaces, 2017, 9, 26840-26847.	8.0	103
141	Lightweight Hexagonal Boron Nitride Foam for CO₂ Absorption. ACS Nano, 2017, 11, 8944-8952.	14.6	56
142	Increased CO2 selectivity of asphalt-derived porous carbon through introduction of water into pore space. Nature Energy, 2017, 2, 932-938.	39.5	31
143	Synthesis of light-driven motorized nanocars for linear trajectories and their detailed NMR structural determination. Tetrahedron, 2017, 73, 4864-4873.	1.9	17
144	How to build and race a fast nanocar. Nature Nanotechnology, 2017, 12, 604-606.	31.5	56

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145	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. ACS Nano, 2017, 11, 6930-6941.	14.6	435
146	Ultraâ€High Surface Area Activated Porous Asphalt for CO₂ Capture through Competitive Adsorption at High Pressures. Advanced Energy Materials, 2017, 7, 1600693.	19.5	87
147	Physical and electrical characterization of TexasPEG: An electrically conductive neuronal scaffold. , 2017, 8, 84.		7
148	An Open Letter to My Colleagues. Inference, 2017, 3, .	0.0	2
149	The Importance of CISS. Inference, 2017, 3, .	0.0	0
150	Passive Anti-Icing and Active Deicing Films. ACS Applied Materials & Interfaces, 2016, 8, 14169-14173.	8.0	143
151	Nitrogen-doped carbonized cotton for highly flexible supercapacitors. Carbon, 2016, 105, 260-267.	10.3	108
152	Synthesis and Photostability of Unimolecular Submersible Nanomachines: Toward Single-Molecule Tracking in Solution. Organic Letters, 2016, 18, 2343-2346.	4.6	11
153	Microwave Heating of Functionalized Graphene Nanoribbons in Thermoset Polymers for Wellbore Reinforcement. ACS Applied Materials & Interfaces, 2016, 8, 12985-12991.	8.0	29
154	Flexible Nanoporous WO_{3â€“x} Nonvolatile Memory Device. ACS Nano, 2016, 10, 7598-7603.	14.6	114
155	Silicon Nanowires and Lithium Cobalt Oxide Nanowires in Graphene Nanoribbon Papers for Full Lithium Ion Battery. Advanced Energy Materials, 2016, 6, 1600918.	19.5	80
156	Characterization of a novel MRâ€detectable nanoantioxidant that mitigates the recall immune response. NMR in Biomedicine, 2016, 29, 1436-1444.	2.8	5
157	Sandwich structured graphene-wrapped FeS-graphene nanoribbons with improved cycling stability for lithium ion batteries. Nano Research, 2016, 9, 2904-2911.	10.4	52
158	Preferential uptake of antioxidant carbon nanoparticles by T lymphocytes for immunomodulation. Scientific Reports, 2016, 6, 33808.	3.3	32
159	Light-Induced Translation of Motorized Molecules on a Surface. ACS Nano, 2016, 10, 10945-10952.	14.6	74
160	Highâ€Performance Pseudocapacitive Microsupercapacitors from Laserâ€Induced Graphene. Advanced Materials, 2016, 28, 838-845.	21.0	439
161	Highâ€Performance Hydrogen Evolution from MoS_{2(1â€“x)}P_x Solid Solution. Advanced Materials, 2016, 28, 1427-1432.	21.0	309
162	Mechanistic Study of the Conversion of Superoxide to Oxygen and Hydrogen Peroxide in Carbon Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 15086-15092.	8.0	43

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163	Biochar as a renewable source for high-performance CO2 sorbent. Carbon, 2016, 107, 344-351.	10.3	94
164	Rivet Graphene. ACS Nano, 2016, 10, 7307-7313.	14.6	20
165	Composites of Graphene Nanoribbon Stacks and Epoxy for Joule Heating and Deicing of Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 3551-3556.	8.0	114
166	Growth and Transfer of Seamless 3D Grapheneâ€“Nanotube Hybrids. Nano Letters, 2016, 16, 1287-1292.	9.1	26
167	Preparation of Three-Dimensional Graphene Foams Using Powder Metallurgy Templates. ACS Nano, 2016, 10, 1411-1416.	14.6	117
168	Growing Carbon Nanotubes from Both Sides of Graphene. ACS Applied Materials & Interfaces, 2016, 8, 7356-7362.	8.0	34
169	Graphene nanoribbon â€“ Polymer composites: The critical role of edge functionalization. Carbon, 2016, 99, 444-450.	10.3	83
170	Chemical Mass Production of Graphene Nanoplatelets in â¼100% Yield. ACS Nano, 2016, 10, 274-279.	14.6	139
171	Biocompatibility of reduced graphene oxide nanoscaffolds following acute spinal cord injury in rats. , 2016, 7, 75.		34
172	Spinal cord fusion with PEG-GNRs (TexasPEG): Neurophysiological recovery in 24 hours in rats. , 2016, 7, 632.		14
173	Animadversions of a Synthetic Chemist. Inference, 2016, 2, .	0.0	2
174	Two Experiments in Abiogenesis. Inference, 2016, 2, .	0.0	2
175	Chiral Induced Spin Selectivity. Inference, 2016, 2, .	0.0	0
176	Vertically Aligned WS₂ Nanosheets for Water Splitting. Advanced Functional Materials, 2015, 25, 6199-6204.	14.9	108
177	Graphene Quantum Dots Doping of MoS₂ Monolayers. Advanced Materials, 2015, 27, 5235-5240.	21.0	168
178	Enhanced Cycling Stability of Lithiumâ€Ion Batteries Using Grapheneâ€Wrapped Fe₃O₄â€Graphene Nanoribbons as Anode Materials. Advanced Energy Materials, 2015, 5, 1500171.	19.5	133
179	Tungsten-based porous thin-films for electrocatalytic hydrogen generation. Journal of Materials Chemistry A, 2015, 3, 5798-5804.	10.3	43
180	Chemical Makeup and Hydrophilic Behavior of Graphene Oxide Nanoribbons after Low-Temperature Fluorination. ACS Nano, 2015, 9, 7009-7018.	14.6	41

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181	Three-dimensional patterning of solid microstructures through laser reduction of colloidal graphene oxide in liquid-crystalline dispersions. Nature Communications, 2015, 6, 7157.	12.8	56
182	Luminescent Polymer Composite Films Containing Coal-Derived Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2015, 7, 26063-26068.	8.0	93
183	Tuning Electrical Conductivity of Inorganic Minerals with Carbon Nanomaterials. ACS Applied Materials & Interfaces, 2015, 7, 26079-26084.	8.0	3
184	Highly efficient conversion of superoxide to oxygen using hydrophilic carbon clusters. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2343-2348.	7.1	173
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