Nikhil A Koratkar

List of Publications by Year
in descending order

169	25,452	8755	6471
papers	citations	75 h-index	157 g-index

174	174	174	30706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Mechanical Properties of Nanocomposites at Low Graphene Content. ACS Nano, 2009, 3, 3884-3890.	14.6	2,381
2	Wetting transparency of graphene. Nature Materials, 2012, 11, 217-222.	27.5	971
3	Miniaturized gas ionization sensors using carbon nanotubes. Nature, 2003, 424, 171-174.	27.8	929
4	Fracture and Fatigue in Graphene Nanocomposites. Small, 2010, 6, 179-183.	10.0	781
5	Multifunctional and Waterâ€Resistant MXeneâ€Decorated Polyester Textiles with Outstanding Electromagnetic Interference Shielding and Joule Heating Performances. Advanced Functional Materials, 2019, 29, 1806819.	14.9	584
6	Toughening in Graphene Ceramic Composites. ACS Nano, 2011, 5, 3182-3190.	14.6	568
7	Effect of defects on the intrinsic strength and stiffness of graphene. Nature Communications, 2014, 5, 3186.	12.8	560
8	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. Nano Energy, 2015, 11, 356-365.	16.0	526
9	Graphene-Based Chemical Sensors. Journal of Physical Chemistry Letters, 2012, 3, 1746-1753.	4.6	516
10	Grapheneâ€“aluminum nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7933-7937.	5.6	514
11	High Sensitivity Gas Detection Using a Macroscopic Three-Dimensional Graphene Foam Network. Scientific Reports, 2011, 1, 166.	3.3	503
12	Nanograssed Micropyramidal Architectures for Continuous Dropwise Condensation. Advanced Functional Materials, 2011, 21, 4617-4623.	14.9	500
13	Viscoelasticity in carbon nanotube composites. Nature Materials, 2005, 4, 134-137.	27.5	443
14	Nanostructured Copper Interfaces for Enhanced Boiling. Small, 2008, 4, 1084-1088.	10.0	404
15	Largeâ€Area Freestanding Graphene Paper for Superior Thermal Management. Advanced Materials, 2014, 26, 4521-4526.	21.0	386
16	Defect-induced plating of lithium metal within porous graphene networks. Nature Communications, 2014, 5, 3710.	12.8	381
17	Self-heatingâ€“induced healing of lithium dendrites. Science, 2018, 359, 1513-1516.	12.6	378
18	Nanostructured Silicon Anodes for Lithium Ion Rechargeable Batteries. Small, 2009, 5, 2236-2242.	10.0	377

#	Article	IF	Citations
19	Enhanced Thermal Conductivity in a Nanostructured Phase Change Composite due to Low Concentration Graphene Additives. Journal of Physical Chemistry C, 2011, 115, 8753-8758.	3.1	377
20	Defect-Induced Photoluminescence in Monolayer Semiconducting Transition Metal Dichalcogenides. ACS Nano, 2015, 9, 1520-1527.	14.6	376
21	Aging of Transition Metal Dichalcogenide Monolayers. ACS Nano, 2016, 10, 2628-2635.	14.6	359
22	Superhydrophobic to Superhydrophilic Wetting Control in Graphene Films. Advanced Materials, 2010, 22, 2151-2154.	21.0	352
23	Photothermally Reduced Graphene as High-Power Anodes for Lithium-Ion Batteries. ACS Nano, 2012, 6, 7867-7878.	14.6	320
24	Nanostructured electrodes for high-power lithium ion batteries. Nano Energy, 2012, 1, 518-533.	16.0	306
25	Phosphorene as a Polysulfide Immobilizer and Catalyst in Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2017, 29, 1602734.	21.0	289
26	Tunable Bandgap in Graphene by the Controlled Adsorption of Water Molecules. Small, 2010, 6, 2535-2538.	10.0	279
27	Graphene Nanoribbon Composites. ACS Nano, 2010, 4, 7415-7420.	14.6	264
28	Carbon science in 2016: Status, challenges and perspectives. Carbon, 2016, 98, 708-732.	10.3	261
29	Thermally Conductive Phase Change Composites Featuring Anisotropic Graphene Aerogels for Realâ€Time and Fastâ€Charging Solarâ€Thermal Energy Conversion. Advanced Functional Materials, 2018, 28, 1805365.	14.9	260
30	Highly sensitive, reliable and flexible piezoresistive pressure sensors featuring polyurethane sponge coated with MXene sheets. Journal of Colloid and Interface Science, 2019, 542, 54-62.	9.4	248
31	Vertically Oriented Arrays of ReS₂ Nanosheets for Electrochemical Energy Storage and Electrocatalysis. Nano Letters, 2016, 16, 3780-3787.	9.1	241
32	Enhanced Electrical Conductivity in Polystyrene Nanocomposites at Ultra-Low Graphene Content. ACS Applied Materials & Interfaces, 2011, 3, 3130-3133.	8.0	234
33	High sensitivity detection of NO2 and NH3 in air using chemical vapor deposition grown graphene. Applied Physics Letters, 2012, 100, .	3.3	216
34	Suppression of wear in graphene polymer composites. Carbon, 2012, 50, 3178-3183.	10.3	213
35	Transitionâ€Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. Advanced Materials, 2016, 28, 9735-9743.	21.0	208
36	Harvesting Energy from Water Flow over Graphene. Nano Letters, 2011, 11, 3123-3127.	9.1	206

#	Article	IF	Citations
37	Enhanced thermal stability in graphene oxide covalently functionalized with 2-amino-4,6-didodecylamino-1,3,5-triazine. Carbon, 2011, 49, 1258-1265.	10.3	206
38	Grapheneâ€“Nanotubeâ€“Iron Hierarchical Nanostructure as Lithium Ion Battery Anode. ACS Nano, 2013, 7, 4242-4251.	14.6	192
39	Enhanced lithiation in defective graphene. Carbon, 2014, 80, 305-310.	10.3	186
40	Wetting of Mono and Few-Layered WS₂ and MoS₂ Films Supported on Si/SiO₂ Substrates. ACS Nano, 2015, 9, 3023-3031.	14.6	186
41	Superhydrophobic Graphene Foams. Small, 2013, 9, 75-80.	10.0	183
42	Polarity-Dependent Electrochemically Controlled Transport of Water through Carbon Nanotube Membranes. Nano Letters, 2007, 7, 697-702.	9.1	176
43	Alignment and dispersion of functionalized carbon nanotubes in polymer composites induced by an electric field. Carbon, 2008, 46, 706-710.	10.3	170
44	Air-dried, high-density graphene hybrid aerogels for phase change composites with exceptional thermal conductivity and shape stability. Journal of Materials Chemistry A, 2016, 4, 18067-18074.	10.3	167
45	Graphene Supported Platinum Nanoparticle Counter-Electrode for Enhanced Performance of Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2011, 3, 3884-3889.	8.0	153
46	Epoxy Nanocomposites with Two-Dimensional Transition Metal Dichalcogenide Additives. ACS Nano, 2014, 8, 5282-5289.	14.6	152
47	Alignment of multiwalled carbon nanotubes in bulk epoxy composites via electric field. Journal of Applied Physics, 2009, 105, .	2.5	147
48	Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. Carbon, 2016, 108, 120-126.	10.3	134
49	Recent advances in phosphorene as a sensing material. Nano Today, 2018, 20, 13-32.	11.9	134
50	In situ thermal reduction of graphene oxide for high electrical conductivity and low percolation threshold in polyamide 6 nanocomposites. Composites Science and Technology, 2012, 72, 284-289.	7.8	130
51	Energy dissipation in carbon nanotube composites: a review. Journal of Materials Science, 2008, 43, 4370-4382.	3.7	129
52	Controlled Crumpling of Graphene Oxide Films for Tunable Optical Transmittance. Advanced Materials, 2015, 27, 3256-3265.	21.0	129
53	A novel approach to enhance the thermal conductivity of epoxy nanocomposites using graphene coreâ€“shell additives. Carbon, 2016, 101, 239-244.	10.3	128
54	A Foldable Lithiumâ€“Sulfur Battery. ACS Nano, 2015, 9, 11342-11350.	14.6	125

#	Article	IF	Citations
55	Passivation of microbial corrosion using a graphene coating. Carbon, 2013, 56, 45-49.	10.3	121
56	Characterizing energy dissipation in single-walled carbon nanotube polycarbonate composites. Applied Physics Letters, 2005, 87, 063102.	3.3	119
57	Organicâ€“Inorganic Heterointerfaces for Ultrasensitive Detection of Ultraviolet Light. Nano Letters, 2015, 15, 3787-3792.	9.1	117
58	Graphene supported nickel nanoparticle as a viable replacement for platinum in dye sensitized solar cells. Nanoscale, 2012, 4, 926-930.	5.6	116
59	Protecting Silicon Film Anodes in Lithium-Ion Batteries Using an Atomically Thin Graphene Drape. ACS Nano, 2017, 11, 5051-5061.	14.6	113
60	Multifunctional structural reinforcement featuring carbon nanotube films. Composites Science and Technology, 2003, 63, 1525-1531.	7.8	109
61	Temperature-Activated Interfacial Friction Damping in Carbon Nanotube Polymer Composites. Nano Letters, 2006, 6, 219-223.	9.1	104
62	Porous Graphene Films with Unprecedented Elastomeric Scaffoldâ€Like Folding Behavior for Foldable Energy Storage Devices. Advanced Materials, 2018, 30, e1707025.	21.0	102
63	Functionally Strain-Graded Nanoscoops for High Power Li-Ion Battery Anodes. Nano Letters, 2011, 11, 377-384.	9.1	101
64	Heterogeneity in Epoxy Nanocomposites Initiates Crazing: Significant Improvements in Fatigue Resistance and Toughening. Small, 2009, 5, 1403-1407.	10.0	100
65	Wettingâ€Transparent Graphene Films for Hydrophobic Waterâ€Harvesting Surfaces. Advanced Materials, 2014, 26, 5166-5172.	21.0	97
66	Multifunctional Bioâ€Nanocomposite Coatings for Perishable Fruits. Advanced Materials, 2020, 32, e1908291.	21.0	97
67	Tellurene based chemical sensor. Journal of Materials Chemistry A, 2019, 7, 26326-26333.	10.3	95
68	Adsorption and Diffusion of Lithium and Sodium on Defective Rhenium Disulfide: A First Principles Study. ACS Applied Materials & Interfaces, 2018, 10, 5373-5384.	8.0	92
69	Flame Synthesis of Superhydrophilic Carbon Nanotubes/Ni Foam Decorated with Fe₂O₃ Nanoparticles for Water Purification via Solar Steam Generation. ACS Applied Materials & Interfaces, 2020, 12, 13229-13238.	8.0	92
70	Nanostructuring versus microstructuring in battery electrodes. Nature Reviews Materials, 2022, 7, 736-746.	48.7	92
71	Utilizing interfaces in carbon nanotube reinforced polymer composites for structural damping. Journal of Materials Science, 2006, 41, 7824-7829.	3.7	88
72	Effects of adatom and gas molecule adsorption on the physical properties of tellurene: a first principles investigation. Physical Chemistry Chemical Physics, 2018, 20, 4058-4066.	2.8	87

#	Article	IF	Citations
73	Wind tunnel testing of a Mach-scaled rotor model with trailing-edge flaps. Smart Materials and Structures, 2001, 10, 1-14.	3.5	83
74	A carbon science perspective in 2018: Current achievements and future challenges. Carbon, 2018, 132, 785-801.	10.3	80
75	In situ healing of dendrites in a potassium metal battery. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5588-5594.	7.1	79
76	Directed rebounding of droplets by microscale surface roughness gradients. Applied Physics Letters, 2010, 96, .	3.3	78
77	Highly sulfiphilic Ni-Fe bimetallic oxide nanoparticles anchored on carbon nanotubes enable effective immobilization and conversion of polysulfides for stable lithium-sulfur batteries. Carbon, 2019, 142, 32-39.	10.3	78
78	Carbon science perspective in 2020: Current research and future challenges. Carbon, 2020, 161, 373-391.	10.3	77
79	Fullereneâ€“epoxy nanocomposites-enhanced mechanical properties at low nanofiller loading. Journal of Nanoparticle Research, 2011, 13, 733-737.	1.9	76
80	Synthesis and electrochemical performance characterization of Ce-doped Li 3 V 2 (PO 4) 3 /C as cathode materials for lithium-ion batteries. Journal of Power Sources, 2013, 243, 33-39.	7.8	74
81	Control of Epoxy Creep Using Graphene. Small, 2012, 8, 1676-1682.	10.0	73
82	Vanadium disulfide flakes with nanolayered titanium disulfide coating as cathode materials in lithium-ion batteries. Nature Communications, 2019, 10, 1764.	12.8	73
83	Efficient Polysulfide Redox Enabled by Lattice-Distorted Ni₃Fe Intermetallic Electrocatalyst-Modified Separator for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 19572-19580.	8.0	72
84	Raman study of interfacial load transfer in graphene nanocomposites. Applied Physics Letters, 2011, 98, .	3.3	71
85	Cl-Doped ZnO Nanowire Arrays on 3D Graphene Foam with Highly Efficient Field Emission and Photocatalytic Properties. Small, 2015, 11, 4785-4792.	10.0	71
86	Hexagonal Boron Nitride: The Thinnest Insulating Barrier to Microbial Corrosion. ACS Nano, 2018, 12, 2242-2252.	14.6	71
87	Folding insensitive, high energy density lithium-ion battery featuring carbon nanotube current collectors. Carbon, 2015, 87, 292-298.	10.3	70
88	Self-assembly and morphological control of three-dimensional macroporous architectures built of two-dimensional materials. Nano Today, 2017, 14, 100-123.	11.9	69
89	Shape memory fiber supercapacitors. Nano Energy, 2015, 17, 330-338.	16.0	67
90	Carbon nanotube sponges as conductive networks for supercapacitor devices. Nano Energy, 2013, 2, 1025-1030.	16.0	61

#	Article	IF	Citations
91	NiO nanoparticles deposited on graphene platelets as a cost-effective counter electrode in a dye sensitized solar cell. Carbon, 2013, 56, 56-63.	10.3	56
92	An Environmentally Stable and Leadâ€Free Chalcogenide Perovskite. Advanced Functional Materials, 2020, 30, 2001387.	14.9	52
93	Raman spectroscopic imaging of graphene dispersion in polymer composites. Carbon, 2013, 62, 510-513.	10.3	51
94	Highly Bendable Ionic Soft Actuator Based on Nitrogenâ€Enriched 3D Heteroâ€Nanostructure Electrode. Advanced Functional Materials, 2018, 28, 1802464.	14.9	51
95	Superiority of Graphene over Polymer Coatings for Prevention of Microbially Induced Corrosion. Scientific Reports, 2015, 5, 13858.	3.3	50
96	Utilizing a graphene matrix to overcome the intrinsic limitations of red phosphorus as an anode material in lithium-ion batteries. Carbon, 2018, 127, 588-595.	10.3	50
97	Exploiting self-heat in a lithium metal battery for dendrite healing. Energy Storage Materials, 2019, 20, 291-298.	18.0	50
98	Utilizing van der Waals Slippery Interfaces to Enhance the Electrochemical Stability of Silicon Film Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 13442-13451.	8.0	48
99	Wind Tunnel Testing of a Smart Rotor Model with Trailing-Edge Flaps. Journal of the American Helicopter Society, 2002, 47, 263.	0.8	47
100	Graphene Drape Minimizes the Pinning and Hysteresis of Water Drops on Nanotextured Rough Surfaces. ACS Nano, 2013, 7, 3512-3521.	14.6	46
101	Facet-insensitive graphene growth on copper. Physical Review B, 2012, 85, .	3.2	45
102	Effect of Platelet Thickness on Wear of Grapheneâ€“Polytetrafluoroethylene (PTFE) Composites. Tribology Letters, 2015, 59, 1.	2.6	45
103	Sculpting Artificial Edges in Monolayer MoS₂ for Controlled Formation of Surface-Enhanced Raman Hotspots. ACS Nano, 2020, 14, 6258-6268.	14.6	45
104	Effects of Defects on the Temperatureâ€Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. Advanced Functional Materials, 2017, 27, 1704357.	14.9	44
105	Maleic anhydride-functionalized graphene nanofillers render epoxy coatings highly resistant to corrosion and microbial attack. Carbon, 2020, 159, 586-597.	10.3	44
106	Water electrolysis activated by Ru nanorod array electrodes. Applied Physics Letters, 2006, 88, 263106.	3.3	42
107	Aqueous lithium-ion batteries with niobium tungsten oxide anodes for superior volumetric and rate capability. Energy Storage Materials, 2020, 27, 506-513.	18.0	40
108	Temperature Effects on Resistance of Aligned Multiwalled Carbon Nanotube Films. Journal of Nanoscience and Nanotechnology, 2004, 4, 744-748.	0.9	39

#	Article	IF	Citations
109	A flexible carbon/sulfur-cellulose core-shell structure for advanced lithiumâ€“sulfur batteries. Energy Storage Materials, 2018, 15, 388-395.	18.0	38
110	Wetting and Electrowetting Properties of Carbon Nanotube Templated Parylene Films. Journal of Physical Chemistry B, 2007, 111, 4296-4299.	2.6	36
111	First-principles study of interaction of molecular hydrogen with Li-doped carbon nanotube peapod structures. Physical Review B, 2008, 77, .	3.2	36
112	Graphene-coated meshes for electroactive flow control devices utilizing two antagonistic functions of repellency and permeability. Nature Communications, 2016, 7, 13345.	12.8	36
113	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. ACS Nano, 2019, 13, 14094-14106.	14.6	36
114	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS 2 Nanosheets. Advanced Functional Materials, 2018, 28, 1801286.	14.9	35
115	Catalystâ€Free and Morphologyâ€Controlled Growth of 2D Perovskite Nanowires for Polarized Light Detection. Advanced Optical Materials, 2019, 7, 1900039.	7.3	35
116	Nano-engineered biocatalyst-electrode structures for next generation microbial fuel cells. Nano Energy, 2012, 1, 3-5.	16.0	34
117	Analysis and Testing of Mach-Scaled Rotor with Trailing-Edge Flaps. AIAA Journal, 2000, 38, 1113-1124.	2.6	33
118	Scalable and rapid Far Infrared reduction of graphene oxide for high performance lithium ion batteries. Energy Storage Materials, 2015, 1, 9-16.	18.0	33
119	Improvement in fatigue life of carbon fibre reinforced polymer composites via a Nano-Silica Modified Matrix. Carbon, 2020, 170, 220-224.	10.3	33
120	Far-infrared reduced graphene oxide as high performance electrodes for supercapacitors. Carbon, 2014, 75, 201-208.	10.3	32
121	Screening-Level Life Cycle Assessment of Graphene-Poly(ether imide) Coatings Protecting Unalloyed Steel from Severe Atmospheric Corrosion. ACS Sustainable Chemistry and Engineering, 2017, 5, 2656-2667.	6.7	32
122	Ultrathin and Strong Electrospun Porous Fiber Separator. ACS Applied Energy Materials, 2018, 1, 4794-4803.	5.1	32
123	Nanocomposites of a Cashew Nut Shell Derived Epoxy Resin and Graphene Platelets: From Flexible to Tough. ACS Sustainable Chemistry and Engineering, 2016, 4, 1715-1721.	6.7	31
124	Solidâ€State Hybrid Fibrous Supercapacitors Produced by Deadâ€End Tube Membrane Ultrafiltration. Advanced Functional Materials, 2017, 27, 1606461.	14.9	31
125	Influence of releasing graphene oxide into a clayey sand: physical and mechanical properties. RSC Advances, 2017, 7, 18060-18067.	3.6	31
126	Bandgap Tuning in BaZrS₃ Perovskite Thin Films. ACS Applied Electronic Materials, 2021, 3, 3306-3312.	4.3	31

#	Article	IF	Citations
127	Short period sinusoidal thermal modulation for quantitative identification of gas species. Nanoscale, 2020, 12, 220-229.	5.6	30
128	Experimental Investigation of the Machinability of Epoxy Reinforced With Graphene Platelets. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	2.2	28
129	Fast Triggering of Shape Memory Polymers using an Embedded Carbon Nanotube Sponge Network. Scientific Reports, 2016, 6, 24148.	3.3	28
130	Repurposing paper by-product lignosulfonate as a sulfur donor/acceptor for high performance lithiumâ€“sulfur batteries. Sustainable Energy and Fuels, 2018, 2, 422-429.	4.9	26
131	Examining the electron transport in chalcogenide perovskite BaZrS₃. Journal of Materials Chemistry C, 2021, 9, 3892-3900.	5.5	24
132	Structural transformation and embrittlement during lithiation and delithiation cycles in an amorphous silicon electrode. Acta Materialia, 2019, 175, 11-20.	7.9	22
133	Nanocarbon aerogel complexes inspired by the leaf structure. Carbon, 2014, 77, 637-644.	10.3	21
134	Corrosion Resistance of Sulfurâ€“Selenium Alloy Coatings. Advanced Materials, 2021, 33, e2104467.	21.0	21
135	Substitutional transition metal doping in MoS₂: a first-principles study. Nano Express, 2020, 1, 010008.	2.4	20
136	Reversing fatigue in carbon-fiber reinforced vitrimer composites. Carbon, 2022, 187, 108-114.	10.3	20
137	High-strain rate compressive behavior of multi-walled carbon nanotube dispersed thermoset epoxy resin. Journal of Composite Materials, 2015, 49, 903-910.	2.4	18
138	Graphene oxide colloidal suspensions mitigate carbon diffusion during diamond turning of steel. Journal of Manufacturing Processes, 2015, 17, 41-47.	5.9	16
139	Recent advances in the mitigation of dendrites in lithium-metal batteries. Journal of Applied Physics, 2020, 128, .	2.5	14
140	ESSENCE â€“ A rapid, shear-enhanced, flow-through, capacitive electrochemical platform for rapid detection of biomolecules. Biosensors and Bioelectronics, 2021, 182, 113163.	10.1	14
141	Grapheneâ€™s Partial Transparency to van der Waals and Electrostatic Interactions. Langmuir, 2019, 35, 12306-12316.	3.5	13
142	Local ferroelectric polarization in antiferroelectric chalcogenide perovskite BaZrS3 thin films. Physical Review B, 2020, 102, .	3.2	13
143	Alloying of Alkali Metals with Tellurene. Advanced Energy Materials, 2021, 11, 2003248.	19.5	11
144	Mechanical Property Enhancement of Layered Reduced Graphene Oxide Papers by Nonâ€Covalent Modification with Terephthalic Acid. Particle and Particle Systems Characterization, 2014, 31, 337-341.	2.3	10

#	Article	IF	Citations
145	A dual-ion accepting vanadium carbide nanowire cathode integrated with carbon cloths for high cycling stability. Nanoscale, 2020, 12, 20868-20874.	5.6	10
146	Virtual Alternating Current Measurements Advance Semiconductor Gas Sensorsâ€™ Performance in the Internet of Things. IEEE Internet of Things Journal, 2022, 9, 5502-5510.	8.7	10
147	Enhanced photoemission from nanostructured surface topologies. Applied Physics Letters, 2006, 89, 193116.	3.3	9
148	Sustainability of renewable fuel infrastructure: a screening LCA case study of anticorrosive graphene oxide epoxy liners in steel tanks for the storage of biodiesel and its blends. Environmental Sciences: Processes and Impacts, 2017, 19, 141-153.	3.5	9
149	Localized transformation of few-layered graphene producing graphitic shells with nanoparticle cores for catalytic applications. Carbon, 2015, 85, 406-413.	10.3	8
150	Micromilling Responses of Hierarchical Graphene Composites. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	8
151	Nanocomposite Creep: Control of Epoxy Creep Using Graphene (Small 11/2012). Small, 2012, 8, 1675-1675.	10.0	7
152	Graphene Foams: Superhydrophobic Graphene Foams (Small 1/2013). Small, 2013, 9, 2-2.	10.0	7
153	Sensible graphene oxide differentiates macrophages and Leishmania: a bio-nano interplay in attenuating intracellular parasite. RSC Advances, 2020, 10, 27502-27511.	3.6	7
154	Oxygen Reduction Reaction with Manganese Oxide Nanospheres in Microbial Fuel Cells. ACS Omega, 2022, 7, 11777-11787.	3.5	7
155	Electrical Transport and Breakdown in Graphene Multilayers Loaded with Electron Beam Induced Deposited Platinum. ACS Applied Materials & Interfaces, 2013, 5, 3424-3430.	8.0	6
156	Heterogeneity-induced mesoscale toughening in polymer nanocomposites. Materialia, 2020, 11, 100673.	2.7	6
157	Controlled Re doping in MoS2 by chemical vapor deposition. Inorganic Chemistry Communication, 2021, 123, 108329.	3.9	6
158	Orientation-Controlled Large-Area Epitaxial PbI2 Thin Films with Tunable Optical Properties. ACS Applied Materials & Interfaces, 2021, 13, 32450-32460.	8.0	6
159	Phase transformation and enhanced blue photoluminescence of zirconium oxide poly-crystalline thin film induced by Ni ion beam irradiation. Scientific Reports, 2021, 11, 17672.	3.3	6
160	Analysis and testing of Mach-scaled rotor with trailing-edge flaps. AIAA Journal, 2000, 38, 1113-1124.	2.6	6
161	Bioâ€Nanocomposite Coatings: Multifunctional Bioâ€Nanocomposite Coatings for Perishable Fruits (Adv.) Tj ETQq1 1 0.784314 rgBT /O	21.0	3
162	Depth sensing indentation of nanoscale graphene platelets in nanocomposite thin films. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	2

#	Article	IF	Citations
163	Experimental Investigation of the Machinability of Epoxy Reinforced With Graphene Platelets. , 2012, , .		2
164	Graphene Films: Wettingâ€Transparent Graphene Films for Hydrophobic Waterâ€Harvesting Surfaces (Adv.) Tj ETQq0 0 0 rgBT /Overloc	21.0	2
165	Analysis of Deposition Methods for Lithium-Ion Battery Anodes Using Reduced Graphene Oxide Slurries on Copper Foil. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	2
166	NANOSCALE FIELD IONIZATION SENSORS: A REVIEW. International Journal of Nanoscience, 2005, 04, 945-949.	0.7	1
167	Graphene Oxide: Controlled Crumpling of Graphene Oxide Films for Tunable Optical Transmittance (Adv. Mater. 21/2015). Advanced Materials, 2015, 27, 3222-3222.	21.0	1
168	Quantifying a scientist's intellectual leadership. Carbon, 2019, 150, 485-488.	10.3	1
169	Nano-engineered Silicon Anodes for Lithium-Ion Rechargeable Batteries. Nanostructure Science and Technology, 2012, , 43-66.	0.1	0