Nikhil A Koratkar

List of Publications by Year in Descending Order

167 papers	20,691 citations	68 h-index	143 g-index
174 ext. papers	23,127 ext. citations	11.9 avg, IF	6.95 L-index

#	Paper	IF	Citations
167	Reversing fatigue in carbon-fiber reinforced vitrimer composites. *Carbon*, **2022**, 187, 108-114	10.4	3
166	Oxygen Reduction Reaction with Manganese Oxide Nanospheres in Microbial Fuel Cells.. *ACS Omega*, **2022**, 7, 11777-11787	3.9	0
165	Corrosion Resistance of Sulfur-Selenium Alloy Coatings. *Advanced Materials*, **2021**, e2104467	24	3
164	ESSENCE - A rapid, shear-enhanced, flow-through, capacitive electrochemical platform for rapid detection of biomolecules. *Biosensors and Bioelectronics*, **2021**, 182, 113163	11.8	6
163	Orientation-Controlled Large-Area Epitaxial PbI Thin Films with Tunable Optical Properties. *ACS Applied Materials & Interfaces*, **2021**, 13, 32450-32460	9.5	3
162	Controlled Re doping in MoS2 by chemical vapor deposition. *Inorganic Chemistry Communication*, **2021**, 123, 108329	3.1	2
161	Examining the electron transport in chalcogenide perovskite BaZrS3. *Journal of Materials Chemistry C*, **2021**, 9, 3892-3900	7.1	2
160	Bandgap Tuning in BaZrS3 Perovskite Thin Films. *ACS Applied Electronic Materials*, **2021**, 3, 3306-3312	4	4
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	4.9	3
158	Virtual alternating current measurements advance semiconductor gas sensors performance in the internet of things. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	0
157	Alloying of Alkali Metals with Tellurene. *Advanced Energy Materials*, **2021**, 11, 2003248	21.8	3
156	Local ferroelectric polarization in antiferroelectric chalcogenide perovskite BaZrS3 thin films. *Physical Review B*, **2020**, 102,	3.3	4
155	Multifunctional Bio-Nanocomposite Coatings for Perishable Fruits. *Advanced Materials*, **2020**, 32, e1908291	24	39
154	Substitutional transition metal doping in MoS2: a first-principles study. *Nano Express*, **2020**, 1, 010008	2	6
153	Bio-Nanocomposite Coatings: Multifunctional Bio-Nanocomposite Coatings for Perishable Fruits (Adv. Mater. 26/2020). *Advanced Materials*, **2020**, 32, 2070199	24	
152	Recent advances in the mitigation of dendrites in lithium-metal batteries. *Journal of Applied Physics* , **2020**, 128, 010903	2.5	6
151	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	11.5	45

150	Flame Synthesis of Superhydrophilic Carbon Nanotubes/Ni Foam Decorated with FeO Nanoparticles for Water Purification via Solar Steam Generation. *ACS Applied Materials & Interfaces*, **2020**, 12, 13229-13238	9.5	42
149	Carbon science perspective in 2020: Current research and future challenges. *Carbon*, **2020**, 161, 373-391	10.4	35
148	Efficient Polysulfide Redox Enabled by Lattice-Distorted NiFe Intermetallic Electrocatalyst-Modified Separator for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 19572-19580	9.5	30
147	Sculpting Artificial Edges in Monolayer MoS for Controlled Formation of Surface-Enhanced Raman Hotspots. *ACS Nano*, **2020**, 14, 6258-6268	16.7	17
146	An Environmentally Stable and Lead-Free Chalcogenide Perovskite. *Advanced Functional Materials*, **2020**, 30, 2001387	15.6	23
145	Maleic anhydride-functionalized graphene nanofillers render epoxy coatings highly resistant to corrosion and microbial attack. *Carbon*, **2020**, 159, 586-597	10.4	26
144	Short period sinusoidal thermal modulation for quantitative identification of gas species. *Nanoscale* , **2020**, 12, 220-229	7.7	22
143	Aqueous lithium-ion batteries with niobium tungsten oxide anodes for superior volumetric and rate capability. *Energy Storage Materials*, **2020**, 27, 506-513	19.4	20
142	Heterogeneity-induced mesoscale toughening in polymer nanocomposites. *Materialia*, **2020**, 11, 100673	3.2	5
141	Sensible graphene oxide differentiates macrophages and : a bio-nano interplay in attenuating intracellular parasite.. *RSC Advances*, **2020**, 10, 27502-27511	3.7	4
140	Improvement in fatigue life of carbon fibre reinforced polymer composites via a Nano-Silica Modified Matrix. *Carbon*, **2020**, 170, 220-224	10.4	16
139	A dual-ion accepting vanadium carbide nanowire cathode integrated with carbon cloths for high cycling stability. *Nanoscale*, **2020**, 12, 20868-20874	7.7	4
138	Graphene's Partial Transparency to van der Waals and Electrostatic Interactions. *Langmuir*, **2019**, 35, 12306-12316	4	6
137	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	9.3	134
136	Quantifying a scientist's intellectual leadership. *Carbon*, **2019**, 150, 485-488	10.4	1
135	Structural transformation and embrittlement during lithiation and delithiation cycles in an amorphous silicon electrode. *Acta Materialia*, **2019**, 175, 11-20	8.4	15
134	Catalyst-Free and Morphology-Controlled Growth of 2D Perovskite Nanowires for Polarized Light Detection. *Advanced Optical Materials*, **2019**, 7, 1900039	8.1	18
133	Vanadium disulfide flakes with nanolayered titanium disulfide coating as cathode materials in lithium-ion batteries. *Nature Communications*, **2019**, 10, 1764	17.4	42

132	Exploiting self-heat in a lithium metal battery for dendrite healing. *Energy Storage Materials*, **2019**, 20, 291-298	19.4	33
131	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. *ACS Nano*, **2019**, 13, 14094-14106	16.7	21
130	Tellurene based chemical sensor. *Journal of Materials Chemistry A*, **2019**, 7, 26326-26333	13	58
129	Multifunctional and Water-Resistant MXene-Decorated Polyester Textiles with Outstanding Electromagnetic Interference Shielding and Joule Heating Performances. *Advanced Functional Materials*, **2019**, 29, 1806819	15.6	350
128	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	10.4	54
127	A carbon science perspective in 2018: Current achievements and future challenges. *Carbon*, **2018**, 132, 785-801	10.4	59
126	Recent advances in phosphorene as a sensing material. *Nano Today*, **2018**, 20, 13-32	17.9	105
125	Porous Graphene Films with Unprecedented Elastomeric Scaffold-Like Folding Behavior for Foldable Energy Storage Devices. *Advanced Materials*, **2018**, 30, e1707025	24	84
124	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	9.5	38
123	Hexagonal Boron Nitride: The Thinnest Insulating Barrier to Microbial Corrosion. *ACS Nano*, **2018**, 12, 2242-2252	16.7	42
122	Adsorption and Diffusion of Lithium and Sodium on Defective Rhenium Disulfide: A First Principles Study. *ACS Applied Materials & Interfaces*, **2018**, 10, 5373-5384	9.5	67
121	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	3.6	60
120	Self-heating-induced healing of lithium dendrites. *Science*, **2018**, 359, 1513-1516	33.3	286
119	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,	3.3	1
118	Highly Bendable Ionic Soft Actuator Based on Nitrogen-Enriched 3D Hetero-Nanostructure Electrode. *Advanced Functional Materials*, **2018**, 28, 1802464	15.6	32
117	A flexible carbon/sulfur-cellulose core-shell structure for advanced lithium-sulfur batteries. *Energy Storage Materials*, **2018**, 15, 388-395	19.4	23
116	Ultrathin and Strong Electrospun Porous Fiber Separator. *ACS Applied Energy Materials*, **2018**, 1, 4794-4803	6.1	24
115	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	10.4	39

114	Repurposing paper by-product lignosulfonate as a sulfur donor/acceptor for high performance lithium–sulfur batteries. *Sustainable Energy and Fuels*, **2018**, 2, 422-429	5.8	18
113	Thermally Conductive Phase Change Composites Featuring Anisotropic Graphene Aerogels for Real-Time and Fast-Charging Solar-Thermal Energy Conversion. *Advanced Functional Materials*, **2018**, 28, 1805365	15.6	154
112	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS2 Nanosheets. *Advanced Functional Materials*, **2018**, 28, 1801286	15.6	23
111	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	8.3	26
110	Protecting Silicon Film Anodes in Lithium-Ion Batteries Using an Atomically Thin Graphene Drape. *ACS Nano*, **2017**, 11, 5051-5061	16.7	96
109	Solid-State Hybrid Fibrous Supercapacitors Produced by Dead-End Tube Membrane Ultrafiltration. *Advanced Functional Materials*, **2017**, 27, 1606461	15.6	29
108	Self-assembly and morphological control of three-dimensional macroporous architectures built of two-dimensional materials. *Nano Today*, **2017**, 14, 100-123	17.9	56
107	Influence of releasing graphene oxide into a clayey sand: physical and mechanical properties. *RSC Advances*, **2017**, 7, 18060-18067	3.7	20
106	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	4.3	9
105	Effects of Defects on the Temperature-Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. *Advanced Functional Materials*, **2017**, 27, 1704357	15.6	31
104	Phosphorene as a Polysulfide Immobilizer and Catalyst in High-Performance Lithium-Sulfur Batteries. *Advanced Materials*, **2017**, 29, 1602734	24	249
103	Transition-Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. *Advanced Materials*, **2016**, 28, 9735-9743	24	145
102	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	13	121
101	Graphene-coated meshes for electroactive flow control devices utilizing two antagonistic functions of repellency and permeability. *Nature Communications*, **2016**, 7, 13345	17.4	23
100	Aging of Transition Metal Dichalcogenide Monolayers. *ACS Nano*, **2016**, 10, 2628-35	16.7	267
99	Carbon science in 2016: Status, challenges and perspectives. *Carbon*, **2016**, 98, 708-732	10.4	200
98	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	8.3	27
97	A novel approach to enhance the thermal conductivity of epoxy nanocomposites using graphene core–shell additives. *Carbon*, **2016**, 101, 239-244	10.4	104

96	Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. *Carbon*, **2016**, 108, 120-126	10.4	115
95	Fast Triggering of Shape Memory Polymers using an Embedded Carbon Nanotube Sponge Network. *Scientific Reports*, **2016**, 6, 24148	4.9	27
94	Vertically Oriented Arrays of ReS2 Nanosheets for Electrochemical Energy Storage and Electrocatalysis. *Nano Letters*, **2016**, 16, 3780-7	11.5	201
93	Defect-induced photoluminescence in monolayer semiconducting transition metal dichalcogenides. *ACS Nano*, **2015**, 9, 1520-7	16.7	295
92	Folding insensitive, high energy density lithium-ion battery featuring carbon nanotube current collectors. *Carbon*, **2015**, 87, 292-298	10.4	59
91	Scalable and rapid Far Infrared reduction of graphene oxide for high performance lithium ion batteries. *Energy Storage Materials*, **2015**, 1, 9-16	19.4	30
90	Effect of Platelet Thickness on Wear of Graphene–Polytetrafluoroethylene (PTFE) Composites. *Tribology Letters*, **2015**, 59, 1	2.8	36
89	Micromilling Responses of Hierarchical Graphene Composites. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2015**, 137,	3.3	6
88	Controlled crumpling of graphene oxide films for tunable optical transmittance. *Advanced Materials* , **2015**, 27, 3256-65	24	112
87	Wetting of mono and few-layered WS2 and MoS2 films supported on Si/SiO2 substrates. *ACS Nano*, **2015**, 9, 3023-31	16.7	156
86	Organic-Inorganic Heterointerfaces for Ultrasensitive Detection of Ultraviolet Light. *Nano Letters*, **2015**, 15, 3787-92	11.5	101
85	A Foldable Lithium-Sulfur Battery. *ACS Nano*, **2015**, 9, 11342-50	16.7	107
84	Shape memory fiber supercapacitors. *Nano Energy*, **2015**, 17, 330-338	17.1	56
83	Graphene oxide colloidal suspensions mitigate carbon diffusion during diamond turning of steel. *Journal of Manufacturing Processes*, **2015**, 17, 41-47	5	13
82	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. *Nano Energy*, **2015**, 11, 356-365	17.1	476
81	High-strain rate compressive behavior of multi-walled carbon nanotube dispersed thermoset epoxy resin. *Journal of Composite Materials*, **2015**, 49, 903-910	2.7	16
80	Graphene Oxide: Controlled Crumpling of Graphene Oxide Films for Tunable Optical Transmittance (Adv. Mater. 21/2015). *Advanced Materials*, **2015**, 27, 3222-3222	24	1
79	Superiority of Graphene over Polymer Coatings for Prevention of Microbially Induced Corrosion. *Scientific Reports*, **2015**, 5, 13858	4.9	42

78	Cl-Doped ZnO Nanowire Arrays on 3D Graphene Foam with Highly Efficient Field Emission and Photocatalytic Properties. *Small*, **2015**, 11, 4785-92	11	60
77	Localized transformation of few-layered graphene producing graphitic shells with nanoparticle cores for catalytic applications. *Carbon*, **2015**, 85, 406-413	10.4	8
76	Wetting-transparent graphene films for hydrophobic water-harvesting surfaces. *Advanced Materials*, **2014**, 26, 5166-72	24	81
75	Defect-induced plating of lithium metal within porous graphene networks. *Nature Communications*, **2014**, 5, 3710	17.4	329
74	Epoxy nanocomposites with two-dimensional transition metal dichalcogenide additives. *ACS Nano*, **2014**, 8, 5282-9	16.7	129
73	Large-area freestanding graphene paper for superior thermal management. *Advanced Materials*, **2014**, 26, 4521-6	24	308
72	Effect of defects on the intrinsic strength and stiffness of graphene. *Nature Communications*, **2014**, 5, 3186	17.4	435
71	Graphene Films: Wetting-Transparent Graphene Films for Hydrophobic Water-Harvesting Surfaces (Adv. Mater. 30/2014). *Advanced Materials*, **2014**, 26, 5070-5070	24	2
70	Enhanced lithiation in defective graphene. *Carbon*, **2014**, 80, 305-310	10.4	149
69	Mechanical Property Enhancement of Layered Reduced Graphene Oxide Papers by Non-Covalent Modification with Terephthalic Acid. *Particle and Particle Systems Characterization*, **2014**, 31, 337-341	3.1	10
68	Nanocarbon aerogel complexes inspired by the leaf structure. *Carbon*, **2014**, 77, 637-644	10.4	18
67	Far-infrared reduced graphene oxide as high performance electrodes for supercapacitors. *Carbon*, **2014**, 75, 201-208	10.4	30
66	Carbon nanotube sponges as conductive networks for supercapacitor devices. *Nano Energy*, **2013**, 2, 1025-1030	17.1	54
65	NiO nanoparticles deposited on graphene platelets as a cost-effective counter electrode in a dye sensitized solar cell. *Carbon*, **2013**, 56, 56-63	10.4	50
64	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	8.9	71
63	Graphene Foams: Superhydrophobic Graphene Foams (Small 1/2013). *Small*, **2013**, 9, 2-2	11	7
62	Graphene--nanotube--iron hierarchical nanostructure as lithium ion battery anode. *ACS Nano*, **2013**, 7, 4242-51	16.7	173
61	Passivation of microbial corrosion using a graphene coating. *Carbon*, **2013**, 56, 45-49	10.4	102

60	Graphene drape minimizes the pinning and hysteresis of water drops on nanotextured rough surfaces. *ACS Nano*, **2013**, 7, 3512-21	16.7	37
59	Raman spectroscopic imaging of graphene dispersion in polymer composites. *Carbon*, **2013**, 62, 510-513	10.4	45
58	Electrical transport and breakdown in graphene multilayers loaded with electron beam induced deposited platinum. *ACS Applied Materials & Interfaces*, **2013**, 5, 3424-30	9.5	6
57	Superhydrophobic graphene foams. *Small*, **2013**, 9, 75-80	11	161
56	Experimental Investigation of the Machinability of Epoxy Reinforced With Graphene Platelets. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2013**, 135,	3.3	22
55	Nano-engineered Silicon Anodes for Lithium-Ion Rechargeable Batteries. *Nanostructure Science and Technology*, **2012**, 43-66	0.9	
54	Wetting transparency of graphene. *Nature Materials*, **2012**, 11, 217-22	27	831
53	Photothermally reduced graphene as high-power anodes for lithium-ion batteries. *ACS Nano*, **2012**, 6, 7867-78	16.7	275
52	Nano-engineered biocatalyst-electrode structures for next generation microbial fuel cells. *Nano Energy*, **2012**, 1, 3-5	17.1	31
51	High sensitivity detection of NO2 and NH3 in air using chemical vapor deposition grown graphene. *Applied Physics Letters*, **2012**, 100, 203120	3.4	177
50	Nanostructured electrodes for high-power lithium ion batteries. *Nano Energy*, **2012**, 1, 518-533	17.1	279
49	Graphene supported nickel nanoparticle as a viable replacement for platinum in dye sensitized solar cells. *Nanoscale*, **2012**, 4, 926-30	7.7	108
48	Experimental Investigation of the Machinability of Epoxy Reinforced With Graphene Platelets **2012**,		2
47	Control of epoxy creep using graphene. *Small*, **2012**, 8, 1676-82	11	63
46	Nanocomposite Creep: Control of Epoxy Creep Using Graphene (Small 11/2012). *Small*, **2012**, 8, 1675-1675	11	6
45	Graphene-Based Chemical Sensors. *Journal of Physical Chemistry Letters*, **2012**, 3, 1746-53	6.4	433
44	Suppression of wear in graphene polymer composites. *Carbon*, **2012**, 50, 3178-3183	10.4	190
43	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	8.6	115

42	Facet-insensitive graphene growth on copper. *Physical Review B*, **2012**, 85,	3.3	43
41	Enhanced electrical conductivity in polystyrene nanocomposites at ultra-low graphene content. *ACS Applied Materials & Interfaces*, **2011**, 3, 3130-3	9.5	202
40	Enhanced Thermal Conductivity in a Nanostructured Phase Change Composite due to Low Concentration Graphene Additives. *Journal of Physical Chemistry C*, **2011**, 115, 8753-8758	3.8	330
39	Graphene supported platinum nanoparticle counter-electrode for enhanced performance of dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2011**, 3, 3884-9	9.5	143
38	Toughening in graphene ceramic composites. *ACS Nano*, **2011**, 5, 3182-90	16.7	494
37	Harvesting energy from water flow over graphene. *Nano Letters*, **2011**, 11, 3123-7	11.5	166
36	Graphene□luminum nanocomposites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 7933-7937	5.3	426
35	High sensitivity gas detection using a macroscopic three-dimensional graphene foam network. *Scientific Reports*, **2011**, 1, 166	4.9	457
34	Fullerene□poxy nanocomposites-enhanced mechanical properties at low nanofiller loading. *Journal of Nanoparticle Research*, **2011**, 13, 733-737	2.3	63
33	Nanograssed Micropyramidal Architectures for Continuous Dropwise Condensation. *Advanced Functional Materials*, **2011**, 21, 4617-4623	15.6	409
32	Raman study of interfacial load transfer in graphene nanocomposites. *Applied Physics Letters*, **2011**, 98, 063102	3.4	64
31	Functionally strain-graded nanoscoops for high power Li-ion battery anodes. *Nano Letters*, **2011**, 11, 377-84	11.5	97
30	Enhanced thermal stability in graphene oxide covalently functionalized with 2-amino-4,6-didodecylamino-1,3,5-triazine. *Carbon*, **2011**, 49, 1258-1265	10.4	186
29	Depth sensing indentation of nanoscale graphene platelets in nanocomposite thin films. *Materials Research Society Symposia Proceedings*, **2011**, 1312, 1		2
28	Directed rebounding of droplets by microscale surface roughness gradients. *Applied Physics Letters*, **2010**, 96, 234103	3.4	66
27	Graphene nanoribbon composites. *ACS Nano*, **2010**, 4, 7415-20	16.7	239
26	Superhydrophobic to superhydrophilic wetting control in graphene films. *Advanced Materials*, **2010**, 22, 2151-4	24	321
25	Tunable bandgap in graphene by the controlled adsorption of water molecules. *Small*, **2010**, 6, 2535-8	11	240

24	Fracture and fatigue in graphene nanocomposites. *Small*, **2010**, 6, 179-83	11	696
23	Heterogeneity in epoxy nanocomposites initiates crazing: significant improvements in fatigue resistance and toughening. *Small*, **2009**, 5, 1403-7	11	93
22	Nanostructured silicon anodes for lithium ion rechargeable batteries. *Small*, **2009**, 5, 2236-42	11	330
21	Enhanced mechanical properties of nanocomposites at low graphene content. *ACS Nano*, **2009**, 3, 3884-90	16.7	2005
20	Alignment of multiwalled carbon nanotubes in bulk epoxy composites via electric field. *Journal of Applied Physics*, **2009**, 105, 054319	2.5	118
19	First-principles study of interaction of molecular hydrogen with Li-doped carbon nanotube peapod structures. *Physical Review B*, **2008**, 77,	3.3	35
18	Energy dissipation in carbon nanotube composites: a review. *Journal of Materials Science*, **2008**, 43, 4370-4382	4.5	113
17	Nanostructured copper interfaces for enhanced boiling. *Small*, **2008**, 4, 1084-8	11	340
16	Alignment and dispersion of functionalized carbon nanotubes in polymer composites induced by an electric field. *Carbon*, **2008**, 46, 706-710	10.4	151
15	Wetting and electrowetting properties of carbon nanotube templated parylene films. *Journal of Physical Chemistry B*, **2007**, 111, 4296-9	3.4	34
14	Polarity-dependent electrochemically controlled transport of water through carbon nanotube membranes. *Nano Letters*, **2007**, 7, 697-702	11.5	162
13	Enhanced photoemission from nanostructured surface topologies. *Applied Physics Letters*, **2006**, 89, 193116	3.4	6
12	Water electrolysis activated by Ru nanorod array electrodes. *Applied Physics Letters*, **2006**, 88, 263106	3.4	38
11	Temperature-activated interfacial friction damping in carbon nanotube polymer composites. *Nano Letters*, **2006**, 6, 219-23	11.5	93
10	Utilizing interfaces in carbon nanotube reinforced polymer composites for structural damping. *Journal of Materials Science*, **2006**, 41, 7824-7829	4.3	75
9	Characterizing energy dissipation in single-walled carbon nanotube polycarbonate composites. *Applied Physics Letters*, **2005**, 87, 063102	3.4	112
8	Viscoelasticity in carbon nanotube composites. *Nature Materials*, **2005**, 4, 134-7	27	384
7	NANOSCALE FIELD IONIZATION SENSORS: A REVIEW. *International Journal of Nanoscience*, **2005**, 04, 945-949	0.6	

6	Temperature effects on resistance of aligned multiwalled carbon nanotube films. *Journal of Nanoscience and Nanotechnology*, **2004**, 4, 744-8	1.3	34
5	Multifunctional structural reinforcement featuring carbon nanotube films. *Composites Science and Technology*, **2003**, 63, 1525-1531	8.6	96
4	Miniaturized gas ionization sensors using carbon nanotubes. *Nature*, **2003**, 424, 171-4	50.4	833
3	Wind Tunnel Testing of a Smart Rotor Model with Trailing-Edge Flaps. *Journal of the American Helicopter Society*, **2002**, 47, 263	1.2	38
2	Wind tunnel testing of a Mach-scaled rotor model with trailing-edge flaps. *Smart Materials and Structures*, **2001**, 10, 1-14	3.4	61
1	Analysis and Testing of Mach-Scaled Rotor with Trailing-Edge Flaps. *AIAA Journal*, **2000**, 38, 1113-1124	2.1	32