

# Robert Vajtai

## List of Publications by Year in descending order

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430  
papers

44,156  
citations

1893

102  
h-index

2178

202  
g-index

436  
all docs

436  
docs citations

436  
times ranked

47081  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exfoliated Graphitic Carbon Nitride Nanosheets as Efficient Catalysts for Hydrogen Evolution Under Visible Light. <i>Advanced Materials</i> , 2013, 25, 2452-2456.	21.0	2,227
2	Vertical and in-plane heterostructures from WS <sub>2</sub> /MoS <sub>2</sub> monolayers. <i>Nature Materials</i> , 2014, 13, 1135-1142.	27.5	1,918
3	Direct laser writing of micro-supercapacitors on hydrated graphite oxide films. <i>Nature Nanotechnology</i> , 2011, 6, 496-500.	31.5	1,322
4	Ultrathin Planar Graphene Supercapacitors. <i>Nano Letters</i> , 2011, 11, 1423-1427.	9.1	1,145
5	Reliability and current carrying capacity of carbon nanotubes. <i>Applied Physics Letters</i> , 2001, 79, 1172-1174.	3.3	1,133
6	Flexible energy storage devices based on nanocomposite paper. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13574-13577.	7.1	1,032
7	Defects Engineered Monolayer MoS <sub>2</sub> for Improved Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2016, 16, 1097-1103.	9.1	1,015
8	Structured Reduced Graphene Oxide/Polymer Composites for Ultra-efficient Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , 2015, 25, 559-566.	14.9	1,007
9	Hydrothermal Synthesis and Pseudocapacitance Properties of MnO <sub>2</sub> Nanostructures. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20207-20214.	2.6	903
10	Direct Synthesis of Long Single-Walled Carbon Nanotube Strands. <i>Science</i> , 2002, 296, 884-886.	12.6	818
11	In-plane heterostructures of graphene and hexagonal boron nitride with controlled domain sizes. <i>Nature Nanotechnology</i> , 2013, 8, 119-124.	31.5	796
12	Chemical Vapor Deposition Growth of Crystalline Monolayer MoSe <sub>2</sub> . <i>ACS Nano</i> , 2014, 8, 5125-5131.	14.6	694
13	High Efficiency Photocatalytic Water Splitting Using 2D Fe <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Z-scheme Catalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700025.		664
14	Carbon nanotube filters. <i>Nature Materials</i> , 2004, 3, 610-614.	27.5	584
15	Ultrathin high-temperature oxidation-resistant coatings of hexagonal boron nitride. <i>Nature Communications</i> , 2013, 4, 2541.	12.8	536
16	Evolution of the Electronic Band Structure and Efficient Photo-Detection in Atomic Layers of InSe. <i>ACS Nano</i> , 2014, 8, 1263-1272.	14.6	534
17	A metal-free electrocatalyst for carbon dioxide reduction to multi-carbon hydrocarbons and oxygenates. <i>Nature Communications</i> , 2016, 7, 13869.	12.8	505
18	Inkjet Printing of Electrically Conductive Patterns of Carbon Nanotubes. <i>Small</i> , 2006, 2, 1021-1025.	10.0	479

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19	Two-Step Growth of Two-Dimensional WSe <sub>2</sub> /MoSe <sub>2</sub> Heterostructures. Nano Letters, 2015, 15, 6135-6141.	9.1	479
20	Organized assembly of carbon nanotubes. Nature, 2002, 416, 495-496.	27.8	477
21	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. Nano Letters, 2014, 14, 442-449.	9.1	463
22	Direct Laser-Patterned Micro-Supercapacitors from Paintable MoS <sub>2</sub> Films. Small, 2013, 9, 2905-2910.	10.0	455
23	Strain and structure heterogeneity in MoS <sub>2</sub> atomic layers grown by chemical vapour deposition. Nature Communications, 2014, 5, 5246.	12.8	453
24	Liquid Phase Exfoliation of Two-Dimensional Materials by Directly Probing and Matching Surface Tension Components. Nano Letters, 2015, 15, 5449-5454.	9.1	436
25	Incorporation of Nitrogen Defects for Efficient Reduction of CO <sub>2</sub> via Two-Electron Pathway on Three-Dimensional Graphene Foam. Nano Letters, 2016, 16, 466-470.	9.1	435
26	Direct growth of aligned carbon nanotubes on bulk metals. Nature Nanotechnology, 2006, 1, 112-116.	31.5	416
27	Synthesis and Photoresponse of Large GaSe Atomic Layers. Nano Letters, 2013, 13, 2777-2781.	9.1	381
28	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. Nano Energy, 2016, 27, 138-146.	16.0	379
29	Pt-Decorated 3D Architectures Built from Graphene and Graphitic Carbon Nitride Nanosheets as Efficient Methanol Oxidation Catalysts. Advanced Materials, 2014, 26, 5160-5165.	21.0	354
30	Full-color fluorescent carbon quantum dots. Science Advances, 2020, 6, .	10.3	344
31	Building 3D Structures of Vanadium Pentoxide Nanosheets and Application as Electrodes in Supercapacitors. Nano Letters, 2013, 13, 5408-5413.	9.1	343
32	Self-optimizing, highly surface-active layered-metal dichalcogenide catalysts for hydrogen evolution. Nature Energy, 2017, 2, .	39.5	336
33	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. Scientific Reports, 2012, 2, 363.	3.3	329
34	Flexible Piezoelectric ZnO-Paper Nanocomposite Strain Sensor. Small, 2010, 6, 1641-1646.	10.0	318
35	Aligned Carbon Nanotube-Polymer Hybrid Architectures for Diverse Flexible Electronic Applications. Nano Letters, 2006, 6, 413-418.	9.1	306
36	Iodine doped carbon nanotube cables exceeding specific electrical conductivity of metals. Scientific Reports, 2011, 1, 83.	3.3	305

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37	Exfoliation of a non-van der Waals material from iron ore hematite. <i>Nature Nanotechnology</i> , 2018, 13, 602-609.	31.5	295
38	Wafer-scale monodomain films of spontaneously aligned single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2016, 11, 633-638.	31.5	292
39	From The Cover: Controlled fabrication of hierarchically branched nanopores, nanotubes, and nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7074-7078.	7.1	286
40	Bottom-up Approach toward Single-Crystalline VO <sub>2</sub> -Graphene Ribbons as Cathodes for Ultrafast Lithium Storage. <i>Nano Letters</i> , 2013, 13, 1596-1601.	9.1	263
41	Graphene-Network-Backboned Architectures for High-Performance Lithium Storage. <i>Advanced Materials</i> , 2013, 25, 3979-3984.	21.0	253
42	An Atomically Layered InSe Avalanche Photodetector. <i>Nano Letters</i> , 2015, 15, 3048-3055.	9.1	253
43	Nitrogen-Doped Graphene with Pyridinic Dominance as a Highly Active and Stable Electrocatalyst for Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14763-14769.	8.0	248
44	A Bottom-Up Approach to Build 3D Architectures from Nanosheets for Superior Lithium Storage. <i>Advanced Functional Materials</i> , 2014, 24, 125-130.	14.9	247
45	Structure, Properties and Applications of Two-Dimensional Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2021, 33, e2101589.	21.0	239
46	Excitation and Active Control of Propagating Surface Plasmon Polaritons in Graphene. <i>Nano Letters</i> , 2013, 13, 3698-3702.	9.1	238
47	Marine Corrosion Protective Coatings of Hexagonal Boron Nitride Thin Films on Stainless Steel. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4129-4135.	8.0	234
48	Irradiation-Induced Magnetism in Carbon Nanostructures. <i>Physical Review Letters</i> , 2005, 95, 097201.	7.8	233
49	Covalently Interconnected Three-Dimensional Graphene Oxide Solids. <i>ACS Nano</i> , 2013, 7, 7034-7040.	14.6	233
50	2D heterostructure comprised of metallic 1T-MoS <sub>2</sub> /Monolayer O-g-C <sub>3</sub> N <sub>4</sub> towards efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 379-385.	20.2	231
51	Zirconia based dental ceramics: structure, mechanical properties, biocompatibility and applications. <i>Dalton Transactions</i> , 2016, 45, 19194-19215.	3.3	228
52	Chip cooling with integrated carbon nanotube microfin architectures. <i>Applied Physics Letters</i> , 2007, 90, 123105.	3.3	222
53	Superior Potassium Ion Storage via Vertical MoS <sub>2</sub> - Nano- with Expanded Interlayers on Graphene. <i>Small</i> , 2017, 13, 1701471.	10.0	221
54	Binary and Ternary Atomic Layers Built from Carbon, Boron, and Nitrogen. <i>Advanced Materials</i> , 2012, 24, 4878-4895.	21.0	219

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55	Boron- and Nitrogen-Substituted Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2015, 27, 1181-1186.	6.7	219
56	High-Lithium-Affinity Chemically Exfoliated 2D Covalent Organic Frameworks. <i>Advanced Materials</i> , 2019, 31, e1901640.	21.0	217
57	High-Contrast Terahertz Wave Modulation by Gated Graphene Enhanced by Extraordinary Transmission through Ring Apertures. <i>Nano Letters</i> , 2014, 14, 1242-1248.	9.1	214
58	A Scalable Approach to Dendrite-Free Lithium Anodes via Spontaneous Reduction of Spray-Coated Graphene Oxide Layers. <i>Advanced Materials</i> , 2018, 30, e1801213.	21.0	204
59	Chemical Vapor Deposition of Monolayer Rhenium Disulfide (ReS <sub>2</sub> ). <i>Advanced Materials</i> , 2015, 27, 4640-4648.	21.0	203
60	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. <i>Nature Communications</i> , 2014, 5, 3193.	12.8	198
61	Surface functionalization of two-dimensional metal chalcogenides by Lewis acid-base chemistry. <i>Nature Nanotechnology</i> , 2016, 11, 465-471.	31.5	197
62	Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap. <i>Advanced Materials</i> , 2017, 29, 1702457.	21.0	186
63	Mechanism of Selective Growth of Carbon Nanotubes on SiO <sub>2</sub> /Si Patterns. <i>Nano Letters</i> , 2003, 3, 561-564.	9.1	173
64	First-Principles Study of Defect-Induced Magnetism in Carbon. <i>Physical Review Letters</i> , 2007, 99, 107201.	7.8	170
65	Synthesis of S-doped graphene by liquid precursor. <i>Nanotechnology</i> , 2012, 23, 275605.	2.6	169
66	Carbon Nanotube-Nanocup Hybrid Structures for High Power Supercapacitor Applications. <i>Nano Letters</i> , 2012, 12, 5616-5621.	9.1	164
67	Synthesis of N, F and S co-doped graphene quantum dots. <i>Nanoscale</i> , 2015, 7, 11515-11519.	5.6	164
68	Formation of CuPd and CuPt Bimetallic Nanotubes by Galvanic Replacement Reaction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9403-9409.	3.1	163
69	Optoelectronic Memory Using Two-Dimensional Materials. <i>Nano Letters</i> , 2015, 15, 259-265.	9.1	163
70	Nanostructured VO <sub>2</sub> Photocatalysts for Hydrogen Production. <i>ACS Nano</i> , 2008, 2, 1492-1496.	14.6	162
71	Atomically thin gallium layers from solid-melt exfoliation. <i>Science Advances</i> , 2018, 4, e1701373.	10.3	157
72	Functionalized Multilayered Graphene Platform for Urea Sensor. <i>ACS Nano</i> , 2012, 6, 168-175.	14.6	154

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73	High Strain Tolerant EMI Shielding Using Carbon Nanotube Network Stabilized Rubber Composite. <i>Advanced Materials Technologies</i> , 2017, 2, 1700078.	5.8	153
74	Synthesis of Millimeter-Scale Transition Metal Dichalcogenides Single Crystals. <i>Advanced Functional Materials</i> , 2016, 26, 2009-2015.	14.9	152
75	Extracting information from noise spectra of chemical sensors: single sensor electronic noses and tongues. <i>Sensors and Actuators B: Chemical</i> , 2000, 71, 55-59.	7.8	149
76	Low-Temperature Large-Scale Synthesis and Electrical Testing of Ultralong Copper Nanowires. <i>Langmuir</i> , 2010, 26, 16496-16502.	3.5	149
77	Probing the engineered sandwich network of vertically aligned carbon nanotube-reduced graphene oxide composites for high performance electromagnetic interference shielding applications. <i>Carbon</i> , 2015, 85, 79-88.	10.3	141
78	A simple method to synthesize continuous large area nitrogen-doped graphene. <i>Carbon</i> , 2012, 50, 4476-4482.	10.3	139
79	Nitrogen-Doped Anatase Nanofibers Decorated with Noble Metal Nanoparticles for Photocatalytic Production of Hydrogen. <i>ACS Nano</i> , 2011, 5, 5025-5030.	14.6	137
80	Efficient Modulation of 1.55 $\mu$ m Radiation with Gated Graphene on a Silicon Microring Resonator. <i>Nano Letters</i> , 2014, 14, 6811-6815.	9.1	137
81	Ultrathick Freestanding Aligned Carbon Nanotube Films. <i>Advanced Materials</i> , 2007, 19, 3300-3303.	21.0	136
82	Bottom-Up Growth of Carbon Nanotube Multilayers: An Unprecedented Growth. <i>Nano Letters</i> , 2005, 5, 1997-2000.	9.1	130
83	Hexagonal Boron Nitride and Graphite Oxide Reinforced Multifunctional Porous Cement Composites. <i>Advanced Functional Materials</i> , 2013, 23, 5624-5630.	14.9	129
84	Gold Nanoparticles and $\text{C}_{30}\text{N}_{4}$ -Intercalated Graphene Oxide Membrane for Recyclable Surface Enhanced Raman Scattering. <i>Advanced Functional Materials</i> , 2017, 27, 1701714.	14.9	129
85	Surface Tension Components Based Selection of Cosolvents for Efficient Liquid Phase Exfoliation of 2D Materials. <i>Small</i> , 2016, 12, 2741-2749.	10.0	128
86	A Review of Cooling in Microchannels. <i>Heat Transfer Engineering</i> , 2011, 32, 527-541.	1.9	125
87	$\text{CoMoO}_4$ Nanoparticles Anchored on Reduced Graphene Oxide Nanocomposites as Anodes for Long-Life Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 20414-20422.	8.0	125
88	Functionalized Low Defect Graphene Nanoribbons and Polyurethane Composite Film for Improved Gas Barrier and Mechanical Performances. <i>ACS Nano</i> , 2013, 7, 10380-10386.	14.6	124
89	Synthesis of large-scale atomic-layer $\text{SnS}_2$ through chemical vapor deposition. <i>Nano Research</i> , 2017, 10, 2386-2394.	10.4	124
90	Imaging the motion of electrons across semiconductor heterojunctions. <i>Nature Nanotechnology</i> , 2017, 12, 36-40.	31.5	124

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91	Improving the Catalytic Activity of Carbon-Supported Single Atom Catalysts by Polynary Metal or Heteroatom Doping. <i>Small</i> , 2020, 16, e1906782.	10.0	124
92	Tellurium-Assisted Low-Temperature Synthesis of MoS <sub>2</sub> and WS <sub>2</sub> Monolayers. <i>ACS Nano</i> , 2015, 9, 11658-11666.	14.6	123
93	Assembly of Highly Organized Carbon Nanotube Architectures by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2003, 15, 1598-1606.	6.7	122
94	Strain-Induced Electronic Structure Changes in Stacked van der Waals Heterostructures. <i>Nano Letters</i> , 2016, 16, 3314-3320.	9.1	122
95	Boron Nitride-Graphene Nanocapacitor and the Origins of Anomalous Size-Dependent Increase of Capacitance. <i>Nano Letters</i> , 2014, 14, 1739-1744.	9.1	120
96	Carbon Nitrogen Nanotubes as Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11991-12000.	8.0	120
97	Magnetic quantum ratchet effect in graphene. <i>Nature Nanotechnology</i> , 2013, 8, 104-107.	31.5	116
98	Density control of single-walled carbon nanotubes using patterned iron nanoparticle catalysts derived from phase-separated thin films of a polyferrocene block copolymer Electronic supplementary information (ESI) available: synthesis of PS-b-PFEMS, SWNT growth and characterization. See <a href="http://www.rsc.org/suppdata/jm/b4/b403831b/">http://www.rsc.org/suppdata/jm/b4/b403831b/</a> . <i>Journal of Materials Chemistry</i> , 2004, 14, 1791.	6.7	113
99	In Situ Synthesis of Thermochemically Reduced Graphene Oxide Conducting Nanocomposites. <i>Nano Letters</i> , 2012, 12, 1789-1793.	9.1	109
100	Metal Nanoparticles as Green Catalysts. <i>Materials</i> , 2019, 12, 3602.	2.9	109
101	3D Nanostructured Molybdenum Diselenide/Graphene Foam as Anodes for Long-Cycle Life Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 176, 103-111.	5.2	107
102	Tuning the Electrochemical Reactivity of Boron- and Nitrogen-Substituted Graphene. <i>Advanced Materials</i> , 2016, 28, 6239-6246.	21.0	107
103	Utilizing 3D SERS Active Volumes in Aligned Carbon Nanotube Scaffold Substrates. <i>Advanced Materials</i> , 2012, 24, 5261-5266.	21.0	103
104	MOF-74 derived porous hybrid metal oxide hollow nanowires for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8396-8404.	10.3	101
105	Multifunctional Bio-Nanocomposite Coatings for Perishable Fruits. <i>Advanced Materials</i> , 2020, 32, e1908291.	21.0	97
106	Atomic Ru Immobilized on Porous h-BN through Simple Vacuum Filtration for Highly Active and Selective CO <sub>2</sub> Methanation. <i>ACS Catalysis</i> , 2019, 9, 10077-10086.	11.2	93
107	A solvent-assisted ligand exchange approach enables metal-organic frameworks with diverse and complex architectures. <i>Nature Communications</i> , 2020, 11, 927.	12.8	93
108	Conduction Mechanisms in CVD-Grown Monolayer MoS <sub>2</sub> Transistors: From Variable-Range Hopping to Velocity Saturation. <i>Nano Letters</i> , 2015, 15, 5052-5058.	9.1	92

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109	High efficiency electrochemical reduction of CO <sub>2</sub> beyond the two-electron transfer pathway on grain boundary rich ultra-small SnO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10313-10319.	10.3	92
110	Sustainable Synthesis of Bright Green Fluorescent Nitrogen-Doped Carbon Quantum Dots from Alkali Lignin. <i>ChemSusChem</i> , 2019, 12, 4202-4210.	6.8	92
111	Low-density three-dimensional foam using self-reinforced hybrid two-dimensional atomic layers. <i>Nature Communications</i> , 2014, 5, 4541.	12.8	91
112	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. <i>Science Advances</i> , 2017, 3, e1701500.	10.3	91
113	Ni filled flexible multi-walled carbon nanotube-polystyrene composite films as efficient microwave absorbers. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	90
114	Field Emission with Ultralow Turn On Voltage from Metal Decorated Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 7763-7770.	14.6	90
115	Reversible Formation of C <sub>3</sub> N <sub>4</sub> 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Room-Temperature Gas Sensing Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1700653.	14.9	90
116	Nitrogen-rich carbon nano-onions for oxygen reduction reaction. <i>Carbon</i> , 2018, 130, 645-651.	10.3	90
117	Functionalized boron nitride porous solids. <i>RSC Advances</i> , 2015, 5, 93964-93968.	3.6	89
118	Synthesis of reduced graphene oxide-Fe <sub>3</sub> O <sub>4</sub> multifunctional freestanding membranes and their temperature dependent electronic transport properties. <i>Carbon</i> , 2012, 50, 1338-1345.	10.3	87
119	A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite. <i>Chemistry of Materials</i> , 2018, 30, 5923-5931.	6.7	82
120	Large Area-Aligned Arrays from Direct Deposition of Single-Wall Carbon Nanotube Inks. <i>Journal of the American Chemical Society</i> , 2007, 129, 10088-10089.	13.7	81
121	A fast and zero-biased photodetector based on GaTe-InSe vertical 2D p-n heterojunction. <i>2D Materials</i> , 2018, 5, 025008.	4.4	81
122	Synthesis of Catalytic Porous Metallic Nanorods by Galvanic Exchange Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 389-393.	3.1	80
123	Electrical Transport and Field-Effect Transistors Using Inkjet-Printed SWCNT Films Having Different Functional Side Groups. <i>ACS Nano</i> , 2010, 4, 3318-3324.	14.6	79
124	Laser-assisted metal deposition from liquid-phase precursors on polymers. <i>Applied Surface Science</i> , 2001, 172, 178-189.	6.1	78
125	Multiscale Geometric Design Principles Applied to 3D Printed Schwarzites. <i>Advanced Materials</i> , 2018, 30, 1704820.	21.0	76
126	Fabrication of manganese oxide/three-dimensional reduced graphene oxide composites as the supercapacitors by a reverse microemulsion method. <i>Carbon</i> , 2015, 85, 249-260.	10.3	74



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127	Carbonâ€Nanotubeâ€Based Electrical Brush Contacts. <i>Advanced Materials</i> , 2009, 21, 2054-2058.	21.0	73
128	Flexible ZnOâ€Cellulose Nanocomposite for Multisource Energy Conversion. <i>Small</i> , 2011, 7, 2173-2178.	10.0	73
129	High-Density, Large-Area Single-Walled Carbon Nanotube Networks on Nanoscale Patterned Substrates. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6859-6864.	2.6	72
130	Three-Dimensional Carbon Nanotube Scaffolds as Particulate Filters and Catalyst Support Membranes. <i>ACS Nano</i> , 2010, 4, 2003-2008.	14.6	72
131	Low Contact Barrier in 2H/1Tâ€ <sup>2</sup> MoTe <sub>2</sub> In-Plane Heterostructure Synthesized by Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12777-12785.	8.0	70
132	Vertically Aligned Large-Diameter Double-Walled Carbon Nanotube Arrays Having Ultralow Density. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9077-9080.	3.1	69
133	Experimental Determination of the Ionization Energies of MoSe <sub>2</sub> , WS <sub>2</sub> , and MoS <sub>2</sub> on SiO <sub>2</sub> Using Photoemission Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 8223-8230.	14.6	69
134	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019, 31, e1805778.	21.0	69
135	A General Synthetic Approach to Interconnected Nanowire/Nanotube and Nanotube/Nanowire/Nanotube Heterojunctions with Branched Topology. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7166-7170.	13.8	66
136	Tunable Electronics in Large-Area Atomic Layers of Boronâ€Nitrogenâ€Carbon. <i>Nano Letters</i> , 2013, 13, 3476-3481.	9.1	65
137	Facile Synthesis of 3D Anode Assembly with Si Nanoparticles Sealed in Highly Pure Few Layer Graphene Deposited on Porous Current Collector for Long Life Liâ€Ion Battery. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601043.	3.7	65
138	Water tribology on graphene. <i>Nature Communications</i> , 2012, 3, 1242.	12.8	64
139	Fiber Reinforced Layered Dielectric Nanocomposite. <i>Advanced Functional Materials</i> , 2019, 29, 1900056.	14.9	64
140	Microcomputed tomographyâ€based characterization of advanced materials: a review. <i>Materials Today Advances</i> , 2020, 8, 100084.	5.2	64
141	Structural Characterizations of Long Single-Walled Carbon Nanotube Strands. <i>Nano Letters</i> , 2002, 2, 1105-1107.	9.1	63
142	Unzipping Carbon Nanotubes at High Impact. <i>Nano Letters</i> , 2014, 14, 4131-4137.	9.1	63
143	Layer Engineering of 2D Semiconductor Junctions. <i>Advanced Materials</i> , 2016, 28, 5126-5132.	21.0	63
144	Adsorption energy of oxygen molecules on graphene and two-dimensional tungsten disulfide. <i>Scientific Reports</i> , 2017, 7, 1774.	3.3	62

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145	Anisotropic thermal diffusivity of aligned multiwall carbon nanotube arrays. <i>Journal of Applied Physics</i> , 2005, 98, 054309.	2.5	61
146	Magnetic-Field Induced Efficient Alignment of Carbon Nanotubes in Aqueous Solutions. <i>Chemistry of Materials</i> , 2007, 19, 787-791.	6.7	61
147	Metal Immiscibility Route to Synthesis of Ultrathin Carbides, Borides, and Nitrides. <i>Advanced Materials</i> , 2017, 29, 1700364.	21.0	61
148	Laser-induced oxidation of metals: state of the art. <i>Thin Solid Films</i> , 1997, 298, 160-164.	1.8	60
149	Nanosized Pt anchored onto 3D nitrogen-doped graphene nanoribbons towards efficient methanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19696-19701.	10.3	60
150	Amine-Functionalized Carbon Nanodot Electrocatalysts Converting Carbon Dioxide to Methane. <i>Advanced Materials</i> , 2022, 34, e2105690.	21.0	59
151	Design and Reinforcement: Vertically Aligned Carbon Nanotube-Based Sandwich Composites. <i>ACS Nano</i> , 2010, 4, 6798-6804.	14.6	58
152	The strain sensing and thermal-mechanical behavior of flexible multi-walled carbon nanotube/polystyrene composite films. <i>Carbon</i> , 2011, 49, 3928-3936.	10.3	57
153	Enhanced Field Emission Properties from CNT Arrays Synthesized on Inconel Superalloy. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1986-1991.	8.0	57
154	Lightweight Hexagonal Boron Nitride Foam for CO <sub>2</sub> Absorption. <i>ACS Nano</i> , 2017, 11, 8944-8952.	14.6	56
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