

Zexiang Shen

List of Publications by Year in descending order

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611
papers

52,743
citations

1459

107
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1673

214
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626
all docs

626
docs citations

626
times ranked

53487
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. <i>Advanced Functional Materials</i> , 2009, 19, 3077-3083.	7.8	2,310
2	Exploration of the active center structure of nitrogen-doped graphene-based catalysts for oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2012, 5, 7936.	15.6	2,089
3	Uniaxial Strain on Graphene: Raman Spectroscopy Study and Band-Gap Opening. <i>ACS Nano</i> , 2008, 2, 2301-2305.	7.3	1,409
4	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. <i>Nature Communications</i> , 2016, 7, 12122.	5.8	1,232
5	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018, 556, 355-359.	13.7	1,225
6	Raman spectroscopy and imaging of graphene. <i>Nano Research</i> , 2008, 1, 273-291.	5.8	1,181
7	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. <i>Advanced Science</i> , 2018, 5, 1700322.	5.6	1,043
8	Graphene Thickness Determination Using Reflection and Contrast Spectroscopy. <i>Nano Letters</i> , 2007, 7, 2758-2763.	4.5	1,034
9	Fe_2O_3 Nanoflakes as an Anode Material for Li-ion Batteries. <i>Advanced Functional Materials</i> , 2007, 17, 2792-2799.	7.8	1,024
10	Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. <i>Journal of Materials Chemistry</i> , 2011, 21, 8038.	6.7	896
11	Pseudocapacitive Na-Ion Storage Boosts High Rate and Areal Capacity of Self-Branched 2D Layered Metal Chalcogenide Nanoarrays. <i>ACS Nano</i> , 2016, 10, 10211-10219.	7.3	844
12	Three-Dimensional Graphene Foam Supported Fe_3O_4 Lithium Battery Anodes with Long Cycle Life and High Rate Capability. <i>Nano Letters</i> , 2013, 13, 6136-6143.	4.5	738
13	Raman Studies of Monolayer Graphene: The Substrate Effect. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10637-10640.	1.5	663
14	Probing Layer Number and Stacking Order of Few Layer Graphene by Raman Spectroscopy. <i>Small</i> , 2010, 6, 195-200.	5.2	650
15	High-performance flexible asymmetric supercapacitors based on a new graphene foam/carbon nanotube hybrid film. <i>Energy and Environmental Science</i> , 2014, 7, 3709-3719.	15.6	557
16	Raman spectra of CuO nanocrystals. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 413-415.	1.2	539
17	Carbon Nanowalls Grown by Microwave Plasma Enhanced Chemical Vapor Deposition. <i>Advanced Materials</i> , 2002, 14, 64-67.	11.1	496
18	Graphene Quantum Dots Coated VO_2 Arrays for Highly Durable Electrodes for Li and Na Ion Batteries. <i>Nano Letters</i> , 2015, 15, 565-573.	4.5	493

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19	Raman spectroscopy of epitaxial graphene on a SiC substrate. <i>Physical Review B</i> , 2008, 77, .	1.1	477
20	Structural and electronic properties of h-BN. <i>Physical Review B</i> , 2003, 68, .	1.1	455
21	A V_2O_5 /Conductive Polymer Core/Shell Nanobelt Array on Three-Dimensional Graphite Foam: A High-Rate, Ultrastable, and Freestanding Cathode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 5794-5800.	11.1	450
22	Iron Oxide-Decorated Carbon for Supercapacitor Anodes with Ultrahigh Energy Density and Outstanding Cycling Stability. <i>ACS Nano</i> , 2015, 9, 5198-5207.	7.3	441
23	Generic Synthesis of Carbon Nanotube Branches on Metal Oxide Arrays Exhibiting Stable High-Rate and Long-Cycle Sodium-Ion Storage. <i>Small</i> , 2016, 12, 3048-3058.	5.2	440
24	Surface-Energy Engineering of Graphene. <i>Langmuir</i> , 2010, 26, 3798-3802.	1.6	426
25	Monolayer graphene as a saturable absorber in a mode-locked laser. <i>Nano Research</i> , 2011, 4, 297-307.	5.8	408
26	Self-Assembly of Honeycomb-Like MoS_2 Nanoarchitectures Anchored into Graphene Foam for Enhanced Lithium-Ion Storage. <i>Advanced Materials</i> , 2014, 26, 7162-7169.	11.1	408
27	Preparation and Characterization of CuO Nanocrystals. <i>Journal of Solid State Chemistry</i> , 1999, 147, 516-519.	1.4	379
28	One-step synthesis of NH_2 -graphene from in situ graphene-oxide reduction and its improved electrochemical properties. <i>Carbon</i> , 2011, 49, 3250-3257.	5.4	372
29	Polyaniline (PANI) based electrode materials for energy storage and conversion. <i>Journal of Science: Advanced Materials and Devices</i> , 2016, 1, 225-255.	1.5	350
30	A Flexible Alkaline Rechargeable Ni/Fe Battery Based on Graphene Foam/Carbon Nanotubes Hybrid Film. <i>Nano Letters</i> , 2014, 14, 7180-7187.	4.5	346
31	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. <i>Nanotechnology</i> , 2009, 20, 085203.	1.3	323
32	Thickness-Dependent Reversible Hydrogenation of Graphene Layers. <i>ACS Nano</i> , 2009, 3, 1781-1788.	7.3	320
33	Preparation of Supercapacitor Electrodes through Selection of Graphene Surface Functionalities. <i>ACS Nano</i> , 2012, 6, 5941-5951.	7.3	310
34	Tunable Stress and Controlled Thickness Modification in Graphene by Annealing. <i>ACS Nano</i> , 2008, 2, 1033-1039.	7.3	304
35	Interference enhancement of Raman signal of graphene. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	292
36	Carbon nanowalls and related materials. <i>Journal of Materials Chemistry</i> , 2004, 14, 469.	6.7	275

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37	Recent advances in air electrodes for Zn-air batteries: electrocatalysis and structural design. <i>Materials Horizons</i> , 2017, 4, 945-976.	6.4	263
38	Raman Mapping Investigation of Graphene on Transparent Flexible Substrate: The Strain Effect. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12602-12605.	1.5	260
39	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	258
40	On Resonant Scatterers As a Factor Limiting Carrier Mobility in Graphene. <i>Nano Letters</i> , 2010, 10, 3868-3872.	4.5	256
41	Controlled Growth and Field-Emission Properties of Cobalt Oxide Nanowalls. <i>Advanced Materials</i> , 2005, 17, 1595-1599.	11.1	255
42	Progress in aqueous rechargeable batteries. <i>Green Energy and Environment</i> , 2018, 3, 20-41.	4.7	255
43	Three-dimensional graphene and their integrated electrodes. <i>Nano Today</i> , 2014, 9, 785-807.	6.2	251
44	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017, 29, 1602969.	11.1	251
45	Reduction of Fermi velocity in folded graphene observed by resonance Raman spectroscopy. <i>Physical Review B</i> , 2008, 77, .	1.1	247
46	Simple and rapid synthesis of ultrathin gold nanowires, their self-assembly and application in surface-enhanced Raman scattering. <i>Chemical Communications</i> , 2009, , 1984.	2.2	245
47	Ni ₃ S ₂ @MoS ₂ core/shell nanorod arrays on Ni foam for high-performance electrochemical energy storage. <i>Nano Energy</i> , 2014, 7, 151-160.	8.2	245
48	Synthesis of Single-Crystal Tetragonal $\sqrt{2} \times \sqrt{2}$ -MnO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12594-12598.	1.5	244
49	Porous $\sqrt{2} \times \sqrt{2}$ -Fe ₂ O ₃ nanorods supported on carbon nanotubes-graphene foam as superior anode for lithium ion batteries. <i>Nano Energy</i> , 2014, 9, 364-372.	8.2	241
50	Controlled Synthesis of High-Quality Monolayered $\sqrt{2} \times \sqrt{2}$ -In ₂ Se ₃ via Physical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 6400-6405.	4.5	239
51	Ultrafast Carrier Thermalization and Cooling Dynamics in Few-Layer MoS ₂ . <i>ACS Nano</i> , 2014, 8, 10931-10940.	7.3	236
52	Direct and Reliable Patterning of Plasmonic Nanostructures with Sub-10-nm Gaps. <i>ACS Nano</i> , 2011, 5, 7593-7600.	7.3	231
53	Edge chirality determination of graphene by Raman spectroscopy. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	226
54	Band gap opening of graphene by doping small boron nitride domains. <i>Nanoscale</i> , 2012, 4, 2157.	2.8	225

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55	Symmetry Breaking of Graphene Monolayers by Molecular Decoration. <i>Physical Review Letters</i> , 2009, 102, 135501.	2.9	224
56	Multiwalled Carbon Nanotubes Beaded with ZnO Nanoparticles for Ultrafast Nonlinear Optical Switching. <i>Advanced Materials</i> , 2006, 18, 587-592.	11.1	219
57	Electronic structure of graphite oxide and thermally reduced graphite oxide. <i>Carbon</i> , 2011, 49, 1362-1366.	5.4	218
58	The effect of vacuum annealing on graphene. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 479-483.	1.2	216
59	Graphene in a photonic metamaterial. <i>Optics Express</i> , 2010, 18, 8353.	1.7	214
60	Single CeO ₂ Nanowire Gas Sensor Supported with Pt Nanocrystals: Gas Sensitivity, Surface Bond States, and Chemical Mechanism. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9061-9065.	1.5	212
61	Single-Crystalline MFe ₂ O ₄ Nanotubes/Nanorings Synthesized by Thermal Transformation Process for Biological Applications. <i>ACS Nano</i> , 2009, 3, 2798-2808.	7.3	211
62	Magnetism in MoS ₂ induced by proton irradiation. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	205
63	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. <i>Nano Energy</i> , 2013, 2, 377-386.	8.2	200
64	Fabrication and SERS Performance of Silver-Nanoparticle-Decorated Si/ZnO Nanotrees in Ordered Arrays. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1824-1828.	4.0	198
65	Probing Charged Impurities in Suspended Graphene Using Raman Spectroscopy. <i>ACS Nano</i> , 2009, 3, 569-574.	7.3	196
66	Investigation of individual CuO nanorods by polarized micro-Raman scattering. <i>Journal of Crystal Growth</i> , 2004, 268, 590-595.	0.7	191
67	Ordered Array of Gold Semishells on TiO ₂ Spheres: An Ultrasensitive and Recyclable SERS Substrate. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2180-2185.	4.0	186
68	Graphene and graphene-based composites as Li-ion battery electrode materials and their application in full cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15423-15446.	5.2	184
69	Large Area and High Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017, 29, 1603471.	11.1	181
70	Hierarchical Porous LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li ⁺ Mobility for Enhanced Electrochemical Performance. <i>Scientific Reports</i> , 2016, 6, 25771.	1.6	178
71	MoS ₂ nanosheets decorated Ni ₃ S ₂ @MoS ₂ coaxial nanofibers: Constructing an ideal heterostructure for enhanced Na-ion storage. <i>Nano Energy</i> , 2016, 20, 1-10.	8.2	178
72	A Highly Ordered Structured Membrane Electrode Assembly with Vertically Aligned Carbon Nanotubes for Ultra-Low Pt Loading PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2011, 1, 1205-1214.	10.2	168

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73	Controlled growth of single-walled carbon nanotubes by catalytic decomposition of CH ₄ over Mo/Co/MgO catalysts. <i>Chemical Physics Letters</i> , 2001, 350, 19-26.	1.2	165
74	NiFe ₂ O ₄ nanoparticles formed in situ in silica matrix by mechanical activation. <i>Journal of Applied Physics</i> , 2002, 91, 6015-6020.	1.1	165
75	Ultrafast Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. <i>Advanced Science</i> , 2016, 3, 1500299.	5.6	163
76	Plasmon-Modulated Photoluminescence of Individual Gold Nanostructures. <i>ACS Nano</i> , 2012, 6, 10147-10155.	7.3	157
77	Sodium Vanadium Fluorophosphates (NVOFP) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018, 8, 1800058.	10.2	157
78	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped $\ln_2\text{O}_3$. <i>Physical Review B</i> , 2009, 79, .	1.1	154
79	FeCl ₃ -Based Few-Layer Graphene Intercalation Compounds: Single Linear Dispersion Electronic Band Structure and Strong Charge Transfer Doping. <i>Advanced Functional Materials</i> , 2010, 20, 3504-3509.	7.8	154
80	VO ₂ nanoflake arrays for supercapacitor and Li-ion battery electrodes: performance enhancement by hydrogen molybdenum bronze as an efficient shell material. <i>Materials Horizons</i> , 2015, 2, 237-244.	6.4	152
81	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016, 26, 137-145.	7.8	150
82	Single-Crystalline V ₂ O ₅ Ultralong Nanoribbon Waveguides. <i>Advanced Materials</i> , 2009, 21, 2436-2440.	11.1	146
83	Shape-Controlled Synthesis of Single-Crystalline Fe ₂ O ₃ Hollow Nanocrystals and Their Tunable Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9928-9935.	1.5	146
84	Polarized Emission and Optical Waveguide in Crystalline Perylene Diimide Microwires. <i>Advanced Materials</i> , 2010, 22, 3661-3666.	11.1	146
85	Stacking-Dependent Optical Conductivity of Bilayer Graphene. <i>ACS Nano</i> , 2010, 4, 4074-4080.	7.3	145
86	DNA Sensing by Field-Effect Transistors Based on Networks of Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2007, 129, 14427-14432.	6.6	144
87	Graphene nanowires anchored to 3D graphene foam via self-assembly for high performance Li and Na ion storage. <i>Nano Energy</i> , 2017, 37, 108-117.	8.2	143
88	A green approach to the synthesis of high-quality graphene oxide flakes via electrochemical exfoliation of pencil core. <i>RSC Advances</i> , 2013, 3, 11745.	1.7	142
89	Engineering the Electronic Structure of Graphene. <i>Advanced Materials</i> , 2012, 24, 4055-4069.	11.1	141
90	Stacking-Dependent Interlayer Coupling in Trilayer MoS ₂ with Broken Inversion Symmetry. <i>Nano Letters</i> , 2015, 15, 8155-8161.	4.5	141

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91	Electrochemically Synthesis of Nickel Cobalt Sulfide for High-Performance Flexible Asymmetric Supercapacitors. <i>Advanced Science</i> , 2018, 5, 1700375.	5.6	141
92	Strong coupling and pressure engineering in WSe ₂ -MoSe ₂ heterobilayers. <i>Nature Physics</i> , 2021, 17, 92-98.	6.5	140
93	Spin-Orbit Splitting in Single-Layer MoS ₂ Revealed by Triply Resonant Raman Scattering. <i>Physical Review Letters</i> , 2013, 111, 126801.	6.9	137
94	High-coercivity Co-ferrite thin films on (100)-SiO ₂ substrate. <i>Applied Physics Letters</i> , 2004, 84, 2596-2598.	1.5	135
95	Unraveling the Potassium Storage Mechanism in Graphite Foam. <i>Advanced Energy Materials</i> , 2019, 9, 1900579.	10.2	133
96	Raman spectroscopic investigation of carbon nanowalls. <i>Journal of Chemical Physics</i> , 2006, 124, 204703.	1.2	131
97	Improving Polysulfides Adsorption and Redox Kinetics by the Co ₄ N Nanoparticle/N-Doped Carbon Composites for Lithium-Sulfur Batteries. <i>Small</i> , 2019, 15, e1901454.	5.2	130
98	Plasma Modified MoS ₂ Nanoflakes for Surface Enhanced Raman Scattering. <i>Small</i> , 2014, 10, 1090-1095.	5.2	129
99	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	126
100	A novel gas sensor based on field ionization from ZnO nanowires: moderate working voltage and high stability. <i>Nanotechnology</i> , 2008, 19, 175501.	1.3	123
101	Aqueous Rechargeable Alkaline Co _x Ni ₂ S ₂ /TiO ₂ Battery. <i>ACS Nano</i> , 2016, 10, 1007-1016.	7.3	123
102	Metal-Semiconductor Phase Transition in WSe ₂ (1-x)Te _{2x} Monolayer. <i>Advanced Materials</i> , 2017, 29, 1603991.	11.1	123
103	Bandgap engineering of graphene: A density functional theory study. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	121
104	Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. <i>Nature Communications</i> , 2020, 11, 3490.	5.8	121
105	G-band Raman double resonance in twisted bilayer graphene: Evidence of band splitting and folding. <i>Physical Review B</i> , 2009, 80, .	1.1	116
106	Density and Phonon-Stiffness Anomalies of Water and Ice in the Full Temperature Range. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3238-3244.	2.1	116
107	Planar super-oscillatory lens for sub-diffraction optical needles at violet wavelengths. <i>Scientific Reports</i> , 2014, 4, 6333.	1.6	116
108	Cation migration and magnetic ordering in spinel CoFe ₂ O ₄ powder: micro-Raman scattering study. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L613-L618.	0.7	110

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109	Temperature dependence of Raman scattering in hexagonal gallium nitride films. <i>Journal of Applied Physics</i> , 2000, 87, 3332-3337.	1.1	109
110	Water-Responsive Shape Recovery Induced Buckling in Biodegradable Photo-Cross-Linked Poly(ethylene Terephthalate) Overlaid with Graphene Oxide. <i>ACS Applied Materials</i> , 2017, 9, 10000-10006.	7.6	109
111	Catalyst-free pulsed-laser-deposited ZnO nanorods and their room-temperature photoluminescence properties. <i>Applied Physics Letters</i> , 2006, 88, 053110.	1.5	108
112	Rapid Pseudocapacitive Sodium-Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. <i>Advanced Functional Materials</i> , 2017, 27, 1606232.	7.8	108
113	Giant enhancement of top emission from ZnO thin film by nanopatterned Pt. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	106
114	Oxidation, defunctionalization and catalyst life cycle of carbon nanotubes: a Raman spectroscopy view. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2276-2285.	1.3	106
115	A Hierarchical MoP Nanoflake Array Supported on Ni Foam: A Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small Methods</i> , 2018, 2, 1700369.	4.6	106
116	Raman scattering investigations of the antiferroelectric-ferroelectric phase transition of NaNbO ₃ . <i>Journal of Raman Spectroscopy</i> , 1998, 29, 379-384.	1.2	104
117	Co-synthesis of ZnO/CuO Nanostructures by Directly Heating Brass in Air. <i>Advanced Functional Materials</i> , 2006, 16, 2415-2422.	7.8	104
118	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23283-23288.	5.2	103
119	Three dimensional Fe ₂ O ₃ /polypyrrole (Ppy) nanoarray as anode for micro lithium ion batteries. <i>Nano Energy</i> , 2013, 2, 726-732.	8.2	102
120	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400499.	1.9	102
121	Recent progress in surface coating of layered LiNi _x Co _y Mn _z O ₂ for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2017, 96, 491-502.	2.7	102
122	Monolayers of W _x Mo _{1-x} S ₂ alloy heterostructure with in-plane composition variations. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	99
123	Manganese phosphate coated Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ cathode material: Towards superior cycling stability at elevated temperature and high voltage. <i>Journal of Power Sources</i> , 2018, 402, 263-271.	4.0	99
124	Fabrication of Graphene Nanodisk Arrays Using Nanosphere Lithography. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6529-6532.	1.5	98
125	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. <i>Science Advances</i> , 2021, 7, .	4.7	98
126	Non-destructive determination of the current-carrying length scale in superconducting crystals and thin films. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 177, 479-486.	0.6	96

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127	Electrical Detection of Femtomolar DNA via Gold Nanoparticle Enhancement in Carbon Nanotube Network Field-Effect Transistors. <i>Advanced Materials</i> , 2008, 20, 2389-2393.	11.1	96
128	Nonlinear graphene metamaterial. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	96
129	Strong interfacial coupling of MoS ₂ /g-C ₃ N ₄ van de Waals solids for highly active water reduction. <i>Nano Energy</i> , 2016, 27, 44-50.	8.2	96
130	Raman characterization of germanium nanocrystals in amorphous silicon oxide films synthesized by rapid thermal annealing. <i>Journal of Applied Physics</i> , 1999, 86, 1398-1403.	1.1	95
131	Reversible UV-Light-Induced Ultrahydrophobic-to-Ultrahydrophilic Transition in an Fe ₂ O ₃ Nanoflakes Film. <i>Langmuir</i> , 2008, 24, 10569-10571.	1.6	95
132	P-type electrical, photoconductive, and anomalous ferromagnetic properties of Cu ₂ O nanowires. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	95
133	Electronic Structures and Structural Evolution of Hydrogenated Graphene Probed by Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1422-1427.	1.5	95
134	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO ₂ nanocomposites. <i>Nanoscale Research Letters</i> , 2011, 6, 531.	3.1	95
135	Electron/Ion Sponge-Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. <i>ACS Nano</i> , 2017, 11, 6911-6920.	7.3	95
136	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ Pb ₄ Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , 2019, 141, 1235-1241.	6.6	95
137	Thermal stability study of NiSi and NiSi ₂ thin films. <i>Microelectronic Engineering</i> , 2004, 71, 104-111.	1.1	94
138	Photoluminescence and structural characteristics of CdS nanoclusters synthesized by hydrothermal microemulsion. <i>Journal of Applied Physics</i> , 2001, 89, 1059-1063.	1.1	93
139	Substrate-Friendly Synthesis of Metal Oxide Nanostructures Using a Hotplate. <i>Small</i> , 2006, 2, 80-84.	5.2	93
140	Orientation Controllable Growth of MoO ₃ Nanoflakes: Micro-Raman, Field Emission, and Birefringence Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20259-20263.	1.5	93
141	Boosting Zn ²⁺ and NH ₄ ⁺ Storage in Aqueous Media via In Situ Electrochemical Induced VS ₂ /VO _x Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2008743.	7.8	92
142	Large-Scale Synthesis of Bi-Layer Graphene in Strongly Coupled Stacking Order. <i>Advanced Functional Materials</i> , 2011, 21, 911-917.	7.8	90
143	Ferroelectric Transistors with Nanowire Channel: Toward Nonvolatile Memory Applications. <i>ACS Nano</i> , 2009, 3, 700-706.	7.3	89
144	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	11.1	89

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145	Graphene quantum dots-shielded Na ₃ (VO) ₂ (PO ₄) ₂ F@C nanocuboids as robust cathode for Na-ion battery. Energy Storage Materials, 2016, 5, 198-204.	9.5	88
146	Compositional mapping of the argon-methane-hydrogen system for polycrystalline to nanocrystalline diamond film growth in a hot-filament chemical vapor deposition system. Applied Physics Letters, 2000, 77, 2692-2694.	1.5	87
147	Laser Pruning of Carbon Nanotubes as a Route to Static and Movable Structures. Advanced Materials, 2003, 15, 300-303.	11.1	87
148	High-performance asymmetric pseudocapacitor cell based on cobalt hydroxide/graphene and polypyrrole/graphene electrodes. Journal of Power Sources, 2015, 275, 298-304.	4.0	87
149	MnPO ₄ -Coated Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Lithium-ion Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics. Advanced Energy Materials, 2018, 8, 1801573.	10.2	87
150	The effect of layer number and substrate on the stability of graphene under MeV proton beam irradiation. Carbon, 2011, 49, 1720-1726.	5.4	86
151	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS ₂ /MoS ₂ . Chemistry of Materials, 2018, 30, 4001-4007.	3.2	85
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