Ting Yu

List of Publications by Year in descending order

295 papers	35,938 citations	2423 97 h-index	3312 184 g-index
299 all docs	299 docs citations	299 times ranked	42455 citing authors

#	Article	IF	Citations
1	Carbonâ€Based Dots Coâ€doped with Nitrogen and Sulfur for High Quantum Yield and Excitationâ€Independent Emission. Angewandte Chemie - International Edition, 2013, 52, 7800-7804.	7.2	1,872
2	Uniaxial Strain on Graphene: Raman Spectroscopy Study and Band-Gap Opening. ACS Nano, 2008, 2, 2301-2305.	7.3	1,409
3	A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359.	13.7	1,225
4	Raman spectroscopy and imaging of graphene. Nano Research, 2008, 1, 273-291.	5.8	1,181
5	Graphene Thickness Determination Using Reflection and Contrast Spectroscopy. Nano Letters, 2007, 7, 2758-2763.	4.5	1,034
6	Î±â€Fe₂O₃ Nanoflakes as an Anode Material for Liâ€Ion Batteries. Advanced Functional Materials, 2007, 17, 2792-2799.	7.8	1,024
7	Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. Journal of Materials Chemistry, 2011, 21, 8038.	6.7	896
8	Raman Studies of Monolayer Graphene: The Substrate Effect. Journal of Physical Chemistry C, 2008, 112, 10637-10640.	1.5	663
9	Nitrogen and Sulfur Codoped Graphene: Multifunctional Electrode Materials for Highâ€Performance Liâ€Ion Batteries and Oxygen Reduction Reaction. Advanced Materials, 2014, 26, 6186-6192.	11.1	598
10	Mechanical Exfoliation and Characterization of Singleâ€and Fewâ€Layer Nanosheets of WSe₂, TaS₂, and TaSe₂. Small, 2013, 9, 1974-1981.	5.2	544
11	Hysteresis of Electronic Transport in Graphene Transistors. ACS Nano, 2010, 4, 7221-7228.	7.3	526
12	Synthesis and Optical Properties of Largeâ€Area Singleâ€Crystalline 2D Semiconductor WS₂ Monolayer from Chemical Vapor Deposition. Advanced Optical Materials, 2014, 2, 131-136.	3.6	513
13	The Origin of Fluorescence from Graphene Oxide. Scientific Reports, 2012, 2, 792.	1.6	505
14	Raman spectroscopy of epitaxial graphene on a SiC substrate. Physical Review B, 2008, 77, .	1.1	477
15	Strain and structure heterogeneity in MoS2 atomic layers grown by chemical vapour deposition. Nature Communications, 2014, 5, 5246.	5.8	453
16	Epitaxial Growth of Branched Î±â€Fe₂O₃/SnO₂ Nanoâ€Heterostructures with Improved Lithiumâ€Ion Battery Performance. Advanced Functional Materials, 2011, 21, 2439-2445.	7.8	439
17	Seed-assisted synthesis of highly ordered TiO2@Î±-Fe2O3 core/shell arrays on carbon textiles for lithium-ion battery applications. Energy and Environmental Science, 2012, 5, 6559.	15.6	421
18	Bioâ€Inspired Nacreâ€like Composite Films Based on Graphene with Superior Mechanical, Electrical, and Biocompatible Properties. Advanced Materials, 2012, 24, 3426-3431.	11.1	389

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19	Threeâ€Dimensional Co₃O₄@MnO₂ Hierarchical Nanoneedle Arrays: Morphology Control and Electrochemical Energy Storage. Advanced Functional Materials, 2014, 24, 3815-3826.	7.8	378
20	Ordered Mesoporous Silicas and Carbons with Large Accessible Pores Templated from Amphiphilic Diblock Copolymer Poly(ethylene oxide)-b-polystyrene. Journal of the American Chemical Society, 2007, 129, 1690-1697.	6.6	377
21	Raman Spectroscopy Study of Lattice Vibration and Crystallographic Orientation of Monolayer MoS₂ under Uniaxial Strain. Small, 2013, 9, 2857-2861.	5.2	363
22	Large-scale synthesis and field emission properties of vertically oriented CuO nanowire films. Nanotechnology, 2005, 16, 88-92.	1.3	348
23	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. Nanotechnology, 2009, 20, 085203.	1.3	323
24	Strain-induced directâ€“indirect bandgap transition and phonon modulation in monolayer WS2. Nano Research, 2015, 8, 2562-2572.	5.8	323
25	Thickness-Dependent Reversible Hydrogenation of Graphene Layers. ACS Nano, 2009, 3, 1781-1788.	7.3	320
26	Rationally Designed Hierarchical TiO₂@Fe₂O₃ Hollow Nanostructures for Improved Lithium Ion Storage. Advanced Energy Materials, 2013, 3, 737-743.	10.2	296
27	High-quality monolayer superconductor NbSe2 grown by chemical vapour deposition. Nature Communications, 2017, 8, 394.	5.8	290
28	Observation of Excitonic Fine Structure in a 2D Transition-Metal Dichalcogenide Semiconductor. ACS Nano, 2015, 9, 647-655.	7.3	288
29	Nonblinking, Intense Two-Dimensional Light Emitter: Monolayer WS₂ Triangles. ACS Nano, 2013, 7, 10985-10994.	7.3	281
30	Thermal conductivity determination of suspended mono- and bilayer WS2 by Raman spectroscopy. Nano Research, 2015, 8, 1210-1221.	5.8	280
31	Controllable Design of MoS₂ Nanosheets Anchored on Nitrogenâ€Doped Graphene: Toward Fast Sodium Storage by Tunable Pseudocapacitance. Advanced Materials, 2018, 30, e1800658.	11.1	275
32	Evolution of disposable bamboo chopsticks into uniform carbon fibers: a smart strategy to fabricate sustainable anodes for Li-ion batteries. Energy and Environmental Science, 2014, 7, 2670-2679.	15.6	271
33	Optical Properties of 2D Semiconductor WS₂. Advanced Optical Materials, 2018, 6, 1700767.	3.6	265
34	Raman Mapping Investigation of Graphene on Transparent Flexible Substrate: The Strain Effect. Journal of Physical Chemistry C, 2008, 112, 12602-12605.	1.5	260
35	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. Journal of Applied Physics, 2010, 108, .	1.1	258
36	Controlled Growth and Field-Emission Properties of Cobalt Oxide Nanowalls. Advanced Materials, 2005, 17, 1595-1599.	11.1	255

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37	A general strategy toward graphene@metal oxide coreâ€“shell nanostructures for high-performance lithium storage. Energy and Environmental Science, 2011, 4, 4954.	15.6	255
38	Reduction of Fermi velocity in folded graphene observed by resonance Raman spectroscopy. Physical Review B, 2008, 77, .	1.1	247
39	Simple and rapid synthesis of ultrathin gold nanowires, their self-assembly and application in surface-enhanced Raman scattering. Chemical Communications, 2009, , 1984.	2.2	245
40	Chemically Driven Tunable Light Emission of Charged and Neutral Excitons in Monolayer WS₂. ACS Nano, 2014, 8, 11320-11329.	7.3	236
41	Valley depolarization due to intervalley and intravalley electron-hole exchange interactions in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>MoS</mml:mtext><mml:mn>2</mml:mn></mml:ms Physical Review B, 2014, 89, .	1.1	232
42	Edge chirality determination of graphene by Raman spectroscopy. Applied Physics Letters, 2008, 93, .	1.5	226
43	Symmetry Breaking of Graphene Monolayers by Molecular Decoration. Physical Review Letters, 2009, 102, 135501.	2.9	224
44	Multiwalled Carbon Nanotubes Beaded with ZnO Nanoparticles for Ultrafast Nonlinear Optical Switching. Advanced Materials, 2006, 18, 587-592.	11.1	219
45	Electronic structure of graphite oxide and thermally reduced graphite oxide. Carbon, 2011, 49, 1362-1366.	5.4	218
46	The effect of vacuum annealing on graphene. Journal of Raman Spectroscopy, 2010, 41, 479-483.	1.2	216
47	Fabrication of Co3O4-reduced graphene oxide scrolls for high-performance supercapacitor electrodes. Physical Chemistry Chemical Physics, 2011, 13, 14462.	1.3	215
48	Single CeO₂ Nanowire Gas Sensor Supported with Pt Nanocrystals: Gas Sensitivity, Surface Bond States, and Chemical Mechanism. Journal of Physical Chemistry C, 2008, 112, 9061-9065.	1.5	212
49	Facile Synthesis of Hierarchically Porous Carbons from Dual Colloidal Crystal/Block Copolymer Template Approach. Chemistry of Materials, 2007, 19, 3271-3277.	3.2	207
50	Fabrication and SERS Performance of Silver-Nanoparticle-Decorated Si/ZnO Nanotrees in Ordered Arrays. ACS Applied Materials & Interfaces, 2010, 2, 1824-1828.	4.0	198
51	Probing Charged Impurities in Suspended Graphene Using Raman Spectroscopy. ACS Nano, 2009, 3, 569-574.	7.3	196
52	1Tâ€² Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. Journal of the American Chemical Society, 2018, 140, 8696-8704.	6.6	192
53	Investigation of individual CuO nanorods by polarized micro-Raman scattering. Journal of Crystal Growth, 2004, 268, 590-595.	0.7	191
54	Synergistic effect of hybrid carbon nantubeâ€“graphene oxide as a nanofiller in enhancing the mechanical properties of PVA composites. Journal of Materials Chemistry, 2011, 21, 10844.	6.7	191

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55	Carbon-decorated ZnO nanowire array: A novel platform for direct electrochemistry of enzymes and biosensing applications. Electrochemistry Communications, 2009, 11, 202-205.	2.3	189
56	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768.	7.3	184
57	Enhanced Thermopower of Graphene Films with Oxygen Plasma Treatment. ACS Nano, 2011, 5, 2749-2755.	7.3	181
58	Electrically Tunable Valley-Light Emitting Diode (vLED) Based on CVD-Grown Monolayer WS₂. Nano Letters, 2016, 16, 1560-1567.	4.5	175
59	Electrocatalytic oxidation and reduction of H2O2 on vertically aligned Co3O4 nanowalls electrode: Toward H2O2 detection. Journal of Electroanalytical Chemistry, 2009, 625, 27-32.	1.9	173
60	Silane-catalysed fast growth of large single-crystalline graphene on hexagonal boron nitride. Nature Communications, 2015, 6, 6499.	5.8	173
61	NiFe2O4 nanoparticles formed in situ in silica matrix by mechanical activation. Journal of Applied Physics, 2002, 91, 6015-6020.	1.1	165
62	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>In</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2009, 79, .	1.1	154
63	FeCl₃â€Based Fewâ€Layer Graphene Intercalation Compounds: Single Linear Dispersion Electronic Band Structure and Strong Charge Transfer Doping. Advanced Functional Materials, 2010, 20, 3504-3509.	7.8	154
64	Singleâ€Crystalline V₂O₅ Ultralong Nanoribbon Waveguides. Advanced Materials, 2009, 21, 2436-2440.	11.1	146
65	Polarized Emission and Optical Waveguide in Crystalline Perylene Diimide Microwires. Advanced Materials, 2010, 22, 3661-3666.	11.1	146
66	3D Carbon/Cobaltâ€Nickel Mixedâ€Oxide Hybrid Nanostructured Arrays for Asymmetric Supercapacitors. Small, 2014, 10, 2937-2945.	5.2	146
67	Stacking-Dependent Optical Conductivity of Bilayer Graphene. ACS Nano, 2010, 4, 4074-4080.	7.3	145
68	The manipulation and assembly of CuO nanorods with line optical tweezers. Nanotechnology, 2004, 15, 1732-1736.	1.3	143
69	Second-Order Overtone and Combination Raman Modes of Graphene Layers in the Range of 1690â^'2150 cm^{â^'1}. ACS Nano, 2011, 5, 1600-1605.	7.3	140
70	High-coercivity Co-ferrite thin films on (100)-SiO2 substrate. Applied Physics Letters, 2004, 84, 2596-2598.	1.5	135
71	Ordered Mesoporous Nanocrystalline Titaniumâ€Carbide/Carbon Composites from Inâ€‰Situ Carbothermal Reduction. Advanced Materials, 2007, 19, 2301-2306.	11.1	135
72	Controlled synthesis of hierarchical graphene-wrapped TiO₂@Co₃O₄coaxial nanobelt arrays for high-performance lithium storage. Journal of Materials Chemistry A, 2013, 1, 273-281.	5.2	135

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73	Sensitivity enhanced biosensor using graphene-based one-dimensional photonic crystal. Sensors and Actuators B: Chemical, 2013, 182, 424-428.	4.0	133
74	Supramolecular Polymerization Promoted In Situ Fabrication of Nitrogenâ€Doped Porous Graphene Sheets as Anode Materials for Liâ€ion Batteries. Advanced Energy Materials, 2015, 5, 1500559.	10.2	133
75	Luminescence origin of carbon based dots obtained from citric acid and amino group-containing molecules. Carbon, 2017, 118, 319-326.	5.4	129
76	Dichroic spinâ€“valley photocurrent in monolayer molybdenum disulphide. Nature Communications, 2015, 6, 7636.	5.8	128
77	Self-assembled graphene@PANI nanoworm composites with enhanced supercapacitor performance. RSC Advances, 2013, 3, 5851.	1.7	127
78	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. Applied Physics Letters, 2011, 98, .	1.5	126
79	Benzoxazole and benzimidazole heterocycle-grafted graphene for high-performance supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 23439.	6.7	126
80	CNT/Ni hybrid nanostructured arrays: synthesis and application as high-performance electrode materials for pseudocapacitors. Energy and Environmental Science, 2011, 4, 5000.	15.6	125
81	Contrast and Raman spectroscopy study of single- and few-layered charge density wave material: 2H-TaSe2. Scientific Reports, 2013, 3, 2593.	1.6	120
82	Oriented graphene nanoribbons embedded in hexagonal boron nitride trenches. Nature Communications, 2017, 8, 14703.	5.8	119
83	Thickness-dependent patterning of MoS2 sheets with well-oriented triangular pits by heating in air. Nano Research, 2013, 6, 703-711.	5.8	118
84	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>G</mml:mi></mml:math>-band Raman double resonance in twisted bilayer graphene: Evidence of band splitting and folding. Physical Review B, 2009, 80, .	1.1	116
85	Cation migration and magnetic ordering in spinel CoFe2O4powder: micro-Raman scattering study. Journal of Physics Condensed Matter, 2002, 14, L613-L618.	0.7	110
86	Controlling the Growth Mechanism of ZnO Nanowires by Selecting Catalysts. Journal of Physical Chemistry C, 2007, 111, 17500-17505.	1.5	110
87	The study of interaction between graphene and metals by Raman spectroscopy. Journal of Applied Physics, 2011, 109, 07C501.	1.1	110
88	Catalyst-free pulsed-laser-deposited ZnO nanorods and their room-temperature photoluminescence properties. Applied Physics Letters, 2006, 88, 053110.	1.5	108
89	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. Science Advances, 2019, 5, eaav4506.	4.7	108
90	Comparison of surface-enhanced Raman scattering on graphene oxide, reduced graphene oxide and graphene surfaces. Carbon, 2013, 62, 422-429.	5.4	107

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91	Co-synthesis of ZnOâ€“CuO Nanostructures by Directly Heating Brass in Air. Advanced Functional Materials, 2006, 16, 2415-2422.	7.8	104
92	Three dimensionals Î±-Fe2O3/polypyrrole (Ppy) nanoarray as anode for micro lithium ion batteries. Nano Energy, 2013, 2, 726-732.	8.2	102
93	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. Nature Communications, 2017, 8, 543.	5.8	102
94	Thickness identification of two-dimensional materials by optical imaging. Nanotechnology, 2012, 23, 495713.	1.3	101
95	Pore Structures of Ordered Large Cage-Type Mesoporous Silica FDU-12s. Journal of Physical Chemistry B, 2006, 110, 21467-21472.	1.2	100
96	Fabrication of Graphene Nanodisk Arrays Using Nanosphere Lithography. Journal of Physical Chemistry C, 2009, 113, 6529-6532.	1.5	98
97	Hierarchical TiO2 nanobelts@MnO2 ultrathin nanoflakes coreâ€“shell array electrode materials for supercapacitors. RSC Advances, 2013, 3, 14413.	1.7	98
98	Excitation of surface electromagnetic waves in a graphene-based Bragg grating. Scientific Reports, 2012, 2, 737.	1.6	97
99	Reversible UV-Light-Induced Ultrahydrophobic-to-Ultrahydrophilic Transition in an Î±-Fe₂O₃ Nanoflakes Film. Langmuir, 2008, 24, 10569-10571.	1.6	95
100	P -type electrical, photoconductive, and anomalous ferromagnetic properties of Cu2O nanowires. Applied Physics Letters, 2009, 94, .	1.5	95
101	Electronic Structures and Structural Evolution of Hydrogenated Graphene Probed by Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 1422-1427.	1.5	95
102	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO2 nanocomposites. Nanoscale Research Letters, 2011, 6, 531.	3.1	95
103	Substrate-Friendly Synthesis of Metal Oxide Nanostructures Using a Hotplate. Small, 2006, 2, 80-84.	5.2	93
104	Orientation Controllable Growth of MoO₃ Nanoflakes: Micro-Raman, Field Emission, and Birefringence Properties. Journal of Physical Chemistry C, 2009, 113, 20259-20263.	1.5	93
105	Crystallinity and surface effects on Youngâ€™s modulus of CuO nanowires. Applied Physics Letters, 2007, 90, 163112.	1.5	92
106	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. 2D Materials, 2018, 5, 025019.	2.0	92
107	Thick wall mesoporous carbons with a large pore structure templated from a weakly hydrophobic PEOâ€“PMMA diblock copolymer. Journal of Materials Chemistry, 2008, 18, 91-97.	6.7	91
108	Raman Study on the G Mode of Graphene for Determination of Edge Orientation. ACS Nano, 2010, 4, 3175-3180.	7.3	90

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109	Largeâ€Scale Synthesis of Biâ€layer Graphene in Strongly Coupled Stacking Order. Advanced Functional Materials, 2011, 21, 911-917.	7.8	90
110	Toward High Energy Organic Cathodes for Liâ€ion Batteries: A Case Study of Vat Dye/Graphene Composites. Advanced Functional Materials, 2017, 27, 1603603.	7.8	90
111	Ferroelectric Transistors with Nanowire Channel: Toward Nonvolatile Memory Applications. ACS Nano, 2009, 3, 700-706.	7.3	89
112	Morphology Controllable Synthesis of Î±-Fe₂O₃ 1D Nanostructures: Growth Mechanism and Nanodevice Based on Single Nanowire. Journal of Physical Chemistry C, 2008, 112, 10784-10788.	1.5	83
113	Progressively Exposing Active Facets of 2D Nanosheets toward Enhanced Pseudocapacitive Response and Highâ€Rate Sodium Storage. Advanced Materials, 2019, 31, e1900526.	11.1	83
114	Efficient field emission from Î±-Fe2O3 nanoflakes on an atomic force microscope tip. Applied Physics Letters, 2005, 87, 023103.	1.5	82
115	Modulating the electronic structures of graphene by controllable hydrogenation. Applied Physics Letters, 2010, 97, .	1.5	82
116	Gold on graphene as a substrate for surface enhanced Raman scattering study. Applied Physics Letters, 2010, 97, .	1.5	81
117	Vertically Aligned CuO Nanowires Based Electrode for Amperometric Detection of Hydrogen Peroxide. Electroanalysis, 2008, 20, 2153-2157.	1.5	80
118	Chemically engineered graphene oxide as high performance cathode materials for Li-ion batteries. Carbon, 2014, 76, 148-154.	5.4	80
119	Zone folding effect in Raman<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>G</mml:mi></mml:math>-band intensity of twisted bilayer graphene. Physical Review B, 2012, 86, .	1.1	79
120	Size effect on the ferroelectric phase transition in SrBi2Ta2O9 nanoparticles. Journal of Applied Physics, 2003, 94, 618-620.	1.1	77
121	Enhanced ultra-low-frequency interlayer shear modes in folded graphene layers. Nature Communications, 2014, 5, 4709.	5.8	77
122	Microwave-assisted solvothermal preparation of nitrogen and sulfur co-doped reduced graphene oxide and graphene quantum dots hybrids for highly efficient oxygen reduction. Journal of Materials Chemistry A, 2014, 2, 20605-20611.	5.2	76
123	Controlled Synthesis of Atomically Thin 1T-TaS₂ for Tunable Charge Density Wave Phase Transitions. Chemistry of Materials, 2016, 28, 7613-7618.	3.2	75
124	Mass Production of Largeâ€Sized, Nonlayered 2D Nanosheets: Their Directed Synthesis by a Rapid â€œGelâ€Blowingâ€•Strategy, and Applications in Li/Na Storage and Catalysis. Advanced Materials, 2018, 30, e1803569.	11.1	74
125	Terahertz Conductivity of Twisted Bilayer Graphene. Physical Review Letters, 2013, 110, 067401.	2.9	73
126	Facile fabrication of hierarchical ZnCo₂O₄/NiO core/shell nanowire arrays with improved lithium-ion battery performance. Nanoscale, 2014, 6, 6563-6568.	2.8	73

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127	Heterostructured TiO₂ Spheres with Tunable Interiors and Shells toward Improved Packing Density and Pseudocapacitive Sodium Storage. Advanced Materials, 2019, 31, e1904589.	11.1	73
128	Nanostructure and Advanced Energy Storage: Elaborate Material Designs Lead to High-Rate Pseudocapacitive Ion Storage. ACS Nano, 2022, 16, 5131-5152.	7.3	73
129	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. Nanotechnology, 2010, 21, 255701.	1.3	72
130	Effects of CF4 plasma on the field emission properties of aligned multi-wall carbon nanotube films. Carbon, 2005, 43, 395-400.	5.4	71
131	Tunable wettability in surface-modified ZnO-based hierarchical nanostructures. Applied Physics Letters, 2008, 92, .	1.5	69
132	A Novel Graphene-Polysulfide Anode Material for High-Performance Lithium-Ion Batteries. Scientific Reports, 2013, 3, 2341.	1.6	68
133	Remarkable anisotropic phonon response in uniaxially strained few-layer black phosphorus. Nano Research, 2015, 8, 3944-3953.	5.8	68
134	Enhanced field emission from O2 and CF4 plasma-treated CuO nanowires. Chemical Physics Letters, 2006, 419, 458-463.	1.2	66
135	Size Selective Assembly of Colloidal Particles on a Template by Directed Self-Assembly Technique. Langmuir, 2006, 22, 8248-8252.	1.6	65
136	Ultrafast Electronâ"Optical Phonon Scattering and Quasiparticle Lifetime in CVD-Grown Graphene. ACS Nano, 2011, 5, 3278-3283.	7.3	63
137	Engineering Valley Polarization of Monolayer WS₂: A Physical Doping Approach. Small, 2019, 15, e1805503.	5.2	62
138	Controlled growth of SnO2@Fe2O3 double-sided nanocombs as anodes for lithium-ion batteries. Nanoscale, 2012, 4, 4459.	2.8	60
139	Largeâ€Area Atomic Layers of the Chargeâ€Densityâ€Wave Conductor TiSe₂. Advanced Materials, 2018, 30, 1704382.	11.1	60
140	Photocontrolled Molecular Structural Transition and Doping in Graphene. ACS Nano, 2012, 6, 8878-8886.	7.3	58
141	Synthesis, characterization and opto-electrical properties of ternary Zn₂SnO₄nanowires. Nanotechnology, 2010, 21, 465706.	1.3	57
142	Femtosecond UV-pump/visible-probe measurements of carrier dynamics in stacked graphene films. Applied Physics Letters, 2010, 97, 163103.	1.5	56
143	Raman spectra of out-of-plane phonons in bilayer graphene. Physical Review B, 2011, 84, .	1.1	55
144	Formation of graphene oxide gel via the Ï€-stacked supramolecular self-assembly. RSC Advances, 2012, 2, 12204.	1.7	55

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145	The origin of sub-bands in the Raman D-band of graphene. Carbon, 2012, 50, 4252-4258.	5.4	54
146	Near-field Raman imaging using optically trapped dielectric microsphere. Optics Express, 2008, 16, 7976.	1.7	52
147	Fabrication of graphene nanogap with crystallographically matching edges and its electron emission properties. Applied Physics Letters, 2010, 96, .	1.5	52
148	Diffusion-controlled evolution of coreâ€“shell nanowire arrays into integrated hybrid nanotube arrays for Li-ion batteries. Nanoscale, 2013, 5, 8105.	2.8	52
149	Stacking sequence determines Raman intensities of observed interlayer shear modes in 2D layered materials â€“ A general bond polarizability model. Scientific Reports, 2015, 5, 14565.	1.6	51
150	Light-Tunable 1T-TaS₂ Charge-Density-Wave Oscillators. ACS Nano, 2018, 12, 11203-11210.	7.3	51
151	Facile synthesis and shape evolution of highly symmetric 26-facet polyhedral microcrystals of Cu2O. CrystEngComm, 2009, 11, 2291.	1.3	50
152	Electrical transport and photovoltaic effects of coreâ€“shell CuO/C60nanowire heterostructure. Nanotechnology, 2009, 20, 065203.	1.3	50
153	Effects of nanocrystal formation on the soft magnetic properties of Fe-based bulk metallic glasses. Applied Physics Letters, 2011, 99, .	1.5	50
154	Morphology-controlled synthesis and a comparative study of the physical properties of SnO2nanostructures: from ultrathin nanowires to ultrawide nanobelts. Nanotechnology, 2009, 20, 135605.	1.3	49
155	Raman spectroscopy of morphology-controlled deposition of Au on graphene. Carbon, 2013, 59, 487-494.	5.4	49
156	Molecularâ€Level Design of Hierarchically Porous Carbons Codoped with Nitrogen and Phosphorus Capable of In Situ Selfâ€Activation for Sustainable Energy Systems. Small, 2017, 13, 1602010.	5.2	47
157	High-rate, long cycle-life Li-ion battery anodes enabled by ultrasmall tin-based nanoparticles encapsulation. Energy Storage Materials, 2018, 14, 169-178.	9.5	47
158	Localized suppression of longitudinal-optical-phononâ€“exciton coupling in bent ZnO nanowires. Nanotechnology, 2010, 21, 445706.	1.3	46
159	Tailoring Wettability Change on Aligned and Patterned Carbon Nanotube Films for Selective Assembly. Journal of Physical Chemistry B, 2007, 111, 1672-1678.	1.2	45
160	Engineering Morphologies of Cobalt Pyrophosphates Nanostructures toward Greatly Enhanced Electrocatalytic Performance of Oxygen Evolution Reaction. Small, 2018, 14, e1801068.	5.2	45
161	Inâ€Plane Anisotropic Thermal Conductivity of Fewâ€Layered Transition Metal Dichalcogenide Tdâ€WTe₂. Advanced Materials, 2019, 31, e1804979.	11.1	45
162	Ultra-sharp Î±-Fe2O3 nanoflakes: growth mechanism and field-emission. Applied Physics A: Materials Science and Processing, 2007, 89, 115-119.	1.1	44

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163	Potassium Tungsten Bronze Nanowires: Polarized Microâ€Raman Scattering of Individual Nanowires and Electron Field Emission from Nanowire Films. Advanced Materials, 2008, 20, 352-356.	11.1	44
164	Thickness-dependent azobenzene doping in mono- and few-layer graphene. Carbon, 2012, 50, 201-208.	5.4	44
165	Redox-crosslinked graphene networks with enhanced electrochemical capacitance. Journal of Materials Chemistry A, 2014, 2, 12924.	5.2	44
166	Resonant Raman spectroscopy of (Mn,Co)-codoped ZnO films. Journal of Applied Physics, 2008, 103, .	1.1	43
167	Visualization of arrangements of carbon atoms in graphene layers by Raman mapping and atomic-resolution TEM. Scientific Reports, 2013, 3, 1195.	1.6	43
168	Tipâ€enhanced Raman spectroscopy using singleâ€crystalline Ag nanowire as tip. Journal of Raman Spectroscopy, 2010, 41, 1156-1162.	1.2	42
169	Rapid and non-destructive identification of graphene oxide thickness using white light contrast spectroscopy. Carbon, 2013, 52, 528-534.	5.4	42
170	Seed-assisted synthesis of Co3O4@Î±-Fe2O3 coreâ€“shell nanoneedle arrays for lithium-ion battery anode with high capacity. RSC Advances, 2014, 4, 13241.	1.7	41
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