

Zexiang Shen

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578
papers

43,840
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100
h-index

195
g-index

625
ext. papers

48,543
ext. citations

7
avg, IF

7.43
L-index

#	Paper	IF	Citations
578	Atomic-Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. <i>Advanced Functional Materials</i> , 2009 , 19, 3077-3083	15.6	1875
577	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	35.4	1813
576	Uniaxial strain on graphene: Raman spectroscopy study and band-gap opening. <i>ACS Nano</i> , 2008 , 2, 2301-2311	56.7	1231
575	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. <i>Nature Communications</i> , 2016 , 7, 12122	17.4	990
574	Raman spectroscopy and imaging of graphene. <i>Nano Research</i> , 2008 , 1, 273-291	10	989
573	Fe ₂ O ₃ Nanoflakes as an Anode Material for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2007 , 17, 2792-2799	15.6	941
572	Graphene thickness determination using reflection and contrast spectroscopy. <i>Nano Letters</i> , 2007 , 7, 2758-63	11.5	894
571	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018 , 556, 355-359	50.4	812
570	Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8038		795
569	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	16.7	702
568	Three-dimensional graphene foam supported Fe ₃ O ₄ /lithium battery anodes with long cycle life and high rate capability. <i>Nano Letters</i> , 2013 , 13, 6136-43	11.5	670
567	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. <i>Advanced Science</i> , 2018 , 5, 1700322	13.6	630
566	Raman Studies of Monolayer Graphene: The Substrate Effect. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10637-10640	3.8	567
565	Probing layer number and stacking order of few-layer graphene by Raman spectroscopy. <i>Small</i> , 2010 , 6, 195-200	11	521
564	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	35.4	506
563	Raman spectroscopy of epitaxial graphene on a SiC substrate. <i>Physical Review B</i> , 2008 , 77,	3.3	429
562	Raman spectra of CuO nanocrystals. <i>Journal of Raman Spectroscopy</i> , 1999 , 30, 413-415	2.3	426

561	Carbon Nanowalls Grown by Microwave Plasma Enhanced Chemical Vapor Deposition. <i>Advanced Materials</i> , 2002 , 14, 64-67	24	425
560	Graphene quantum dots coated VO ₂ arrays for highly durable electrodes for Li and Na ion batteries. <i>Nano Letters</i> , 2015 , 15, 565-73	11.5	417
559	A V ₂ O 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, 5794-800	24	400
558	Surface-energy engineering of graphene. <i>Langmuir</i> , 2010 , 26, 3798-802	4	383
557	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, 3048-58	11	377
556	Iron oxide-decorated carbon for supercapacitor anodes with ultrahigh energy density and outstanding cycling stability. <i>ACS Nano</i> , 2015 , 9, 5198-207	16.7	375
555	Self-assembly of honeycomb-like MoS ₂ nanoarchitectures anchored into graphene foam for enhanced lithium-ion storage. <i>Advanced Materials</i> , 2014 , 26, 7162-9	24	373
554	Structural and electronic properties of h-BN. <i>Physical Review B</i> , 2003 , 68,	3.3	343
553	Monolayer graphene as a saturable absorber in a mode-locked laser. <i>Nano Research</i> , 2011 , 4, 297-307	10	322
552	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	10.4	322
551	Preparation and Characterization of CuO Nanocrystals. <i>Journal of Solid State Chemistry</i> , 1999 , 147, 516-519	3.9	317
550	A flexible alkaline rechargeable Ni/Fe battery based on graphene foam/carbon nanotubes hybrid film. <i>Nano Letters</i> , 2014 , 14, 7180-7	11.5	309
549	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. <i>Nanotechnology</i> , 2009 , 20, 085203	3.4	286
548	Thickness-dependent reversible hydrogenation of graphene layers. <i>ACS Nano</i> , 2009 , 3, 1781-8	16.7	281
547	Preparation of supercapacitor electrodes through selection of graphene surface functionalities. <i>ACS Nano</i> , 2012 , 6, 5941-51	16.7	279
546	Tunable stress and controlled thickness modification in graphene by annealing. <i>ACS Nano</i> , 2008 , 2, 1033-1037	6.7	272
545	Interference enhancement of Raman signal of graphene. <i>Applied Physics Letters</i> , 2008 , 92, 043121	3.4	263
544	Polyaniline (PANI) based electrode materials for energy storage and conversion. <i>Journal of Science: Advanced Materials and Devices</i> , 2016 , 1, 225-255	4.2	242

543	Carbon nanowalls and related materials. <i>Journal of Materials Chemistry</i> , 2004 , 14, 469		241
542	Controlled Growth and Field-Emission Properties of Cobalt Oxide Nanowalls. <i>Advanced Materials</i> , 2005 , 17, 1595-1599	24	235
541	Three-dimensional graphene and their integrated electrodes. <i>Nano Today</i> , 2014 , 9, 785-807	17.9	228
540	Simple and rapid synthesis of ultrathin gold nanowires, their self-assembly and application in surface-enhanced Raman scattering. <i>Chemical Communications</i> , 2009 , 1984-6	5.8	226
539	Raman Mapping Investigation of Graphene on Transparent Flexible Substrate: The Strain Effect. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12602-12605	3.8	226
538	Reduction of Fermi velocity in folded graphene observed by resonance Raman spectroscopy. <i>Physical Review B</i> , 2008 , 77,	3.3	223
537	On resonant scatterers as a factor limiting carrier mobility in graphene. <i>Nano Letters</i> , 2010 , 10, 3868-72	11.5	220
536	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. <i>Journal of Applied Physics</i> , 2010 , 108, 071301	2.5	216
535	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	17.1	214
534	Symmetry breaking of graphene monolayers by molecular decoration. <i>Physical Review Letters</i> , 2009 , 102, 135501	7.4	213
533	Synthesis of Single-Crystal Tetragonal MnO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12594-12598	3.8	212
532	Porous 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	17.1	211
531	Direct and reliable patterning of plasmonic nanostructures with sub-10-nm gaps. <i>ACS Nano</i> , 2011 , 5, 7593-7600	16.9	207
530	Edge chirality determination of graphene by Raman spectroscopy. <i>Applied Physics Letters</i> , 2008 , 93, 163112	3.12	206
529	Multiwalled Carbon Nanotubes Beaded with ZnO Nanoparticles for Ultrafast Nonlinear Optical Switching. <i>Advanced Materials</i> , 2006 , 18, 587-592	24	199
528	Graphene in a photonic metamaterial. <i>Optics Express</i> , 2010 , 18, 8353-9	3.3	195
527	The effect of vacuum annealing on graphene. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 479-483	2.3	194
526	Ultrafast carrier thermalization and cooling dynamics in few-layer MoS ₂ . <i>ACS Nano</i> , 2014 , 8, 10931-40	16.7	192

525	Band gap opening of graphene by doping small boron nitride domains. <i>Nanoscale</i> , 2012 , 4, 2157-65	7.7	190
524	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	3.8	190
523	Single-crystalline MFe ₂ O ₄ nanotubes/nanorings synthesized by thermal transformation process for biological applications. <i>ACS Nano</i> , 2009 , 3, 2798-808	16.7	188
522	Electronic structure of graphite oxide and thermally reduced graphite oxide. <i>Carbon</i> , 2011 , 49, 1362-1366	6.4	187
521	Progress in aqueous rechargeable batteries. <i>Green Energy and Environment</i> , 2018 , 3, 20-41	5.7	182
520	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017 , 29, 1602969	24	180
519	Fabrication and SERS performance of silver-nanoparticle-decorated Si/ZnO nanotrees in ordered arrays. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1824-8	9.5	180
518	Probing charged impurities in suspended graphene using Raman spectroscopy. <i>ACS Nano</i> , 2009 , 3, 569-746	6.7	177
517	Recent advances in air electrodes for Zn-air batteries: electrocatalysis and structural design. <i>Materials Horizons</i> , 2017 , 4, 945-976	14.4	174
516	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. <i>Nano Energy</i> , 2013 , 2, 377-386	17.1	174
515	Magnetism in MoS ₂ induced by proton irradiation. <i>Applied Physics Letters</i> , 2012 , 101, 102103	3.4	170
514	Controlled Synthesis of High-Quality Monolayered Hn ₂ Se ₃ via Physical Vapor Deposition. <i>Nano Letters</i> , 2015 , 15, 6400-5	11.5	169
513	Ordered array of gold semishells on TiO ₂ spheres: an ultrasensitive and recyclable SERS substrate. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2180-5	9.5	169
512	Investigation of individual CuO nanorods by polarized micro-Raman scattering. <i>Journal of Crystal Growth</i> , 2004 , 268, 590-595	1.6	169
511	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	17.1	161
510	NiFe ₂ O ₄ nanoparticles formed in situ in silica matrix by mechanical activation. <i>Journal of Applied Physics</i> , 2002 , 91, 6015-6020	2.5	154
509	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	2.5	152
508	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped In ₂ O ₃ nanostructures. <i>Physical Review B</i> , 2009 , 79,	3.3	145

507	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	14.4	142
506	Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017 , 29, 1603471	24	140
505	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	15.6	138
504	A Highly Order-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	21.8	136
503	Plasmon-modulated photoluminescence of individual gold nanostructures. <i>ACS Nano</i> , 2012 , 6, 10147-55	16.7	134
502	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	13	133
501	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. <i>Advanced Science</i> , 2016 , 3, 1500299	13.6	132
500	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	3.8	131
499	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	17.1	128
498	DNA sensing by field-effect transistors based on networks of carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14427-32	16.4	128
497	High-coercivity Co-ferrite thin films on (100)-SiO ₂ substrate. <i>Applied Physics Letters</i> , 2004 , 84, 2596-2598	3.4	128
496	Single-Crystalline V ₂ O ₅ Ultralong Nanoribbon Waveguides. <i>Advanced Materials</i> , 2009 , 21, 2436-2440	24	126
495	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016 , 26, 137-145	14.5	125
494	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018 , 8, 1800058	21.8	124
493	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	4.9	122
492	Stacking-dependent optical conductivity of bilayer graphene. <i>ACS Nano</i> , 2010 , 4, 4074-80	16.7	122
491	Polarized emission and optical waveguide in crystalline perylene diimide microwires. <i>Advanced Materials</i> , 2010 , 22, 3661-6	24	122
490	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	3.7	119

489	Spin-orbit splitting in single-layer MoS ₂ revealed by triply resonant Raman scattering. <i>Physical Review Letters</i> , 2013 , 111, 126801	7.4	117
488	Raman spectroscopic investigation of carbon nanowalls. <i>Journal of Chemical Physics</i> , 2006 , 124, 204703	3.9	117
487	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. <i>Applied Physics Letters</i> , 2011 , 98, 193113	3.4	115
486	Electrochemically Synthesis of Nickel Cobalt Sulfide for High-Performance Flexible Asymmetric Supercapacitors. <i>Advanced Science</i> , 2018 , 5, 1700375	13.6	115
485	Aqueous Rechargeable Alkaline Co _x Ni _{2-x} S ₂ /TiO ₂ Battery. <i>ACS Nano</i> , 2016 , 10, 1007-16	16.7	108
484	A novel gas sensor based on field ionization from ZnO nanowires: moderate working voltage and high stability. <i>Nanotechnology</i> , 2008 , 19, 175501	3.4	108
483	Bandgap engineering of graphene: A density functional theory study. <i>Applied Physics Letters</i> , 2009 , 95, 252104	3.4	107
482	Stacking-Dependent Interlayer Coupling in Trilayer MoS ₂ with Broken Inversion Symmetry. <i>Nano Letters</i> , 2015 , 15, 8155-61	11.5	106
481	G-band Raman double resonance in twisted bilayer graphene: Evidence of band splitting and folding. <i>Physical Review B</i> , 2009 , 80,	3.3	104
480	Catalyst-free pulsed-laser-deposited ZnO nanorods and their room-temperature photoluminescence properties. <i>Applied Physics Letters</i> , 2006 , 88, 053110	3.4	103
479	Density and Phonon-Stiffness Anomalies of Water and Ice in the Full Temperature Range. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3238-44	6.4	101
478	Giant enhancement of top emission from ZnO thin film by nanopatterned Pt. <i>Applied Physics Letters</i> , 2009 , 94, 151102	3.4	100
477	Engineering the electronic structure of graphene. <i>Advanced Materials</i> , 2012 , 24, 4055-69	24	99
476	Temperature dependence of Raman scattering in hexagonal gallium nitride films. <i>Journal of Applied Physics</i> , 2000 , 87, 3332-3337	2.5	98
475	Plasma modified MoS ₂ nanoflakes for surface enhanced raman scattering. <i>Small</i> , 2014 , 10, 1090-5	11	95
474	Planar super-oscillatory lens for sub-diffraction optical needles at violet wavelengths. <i>Scientific Reports</i> , 2014 , 4, 6333	4.9	93
473	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	1.3	92
472	P-type electrical, photoconductive, and anomalous ferromagnetic properties of Cu ₂ O nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 113106	3.4	90

471	Electrical Detection of Femtomolar DNA via Gold-Nanoparticle Enhancement in Carbon-Nanotube-Network Field-Effect Transistors. <i>Advanced Materials</i> , 2008 , 20, 2389-2393	24	90
470	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO ₂ nanocomposites. <i>Nanoscale Research Letters</i> , 2011 , 6, 531	5	89
469	Raman scattering investigations of the antiferroelectric/ferroelectric phase transition of NaNbO ₃ . <i>Journal of Raman Spectroscopy</i> , 1998 , 29, 379-384	2.3	89
468	Co-synthesis of ZnO/TiO ₂ Nanostructures by Directly Heating Brass in Air. <i>Advanced Functional Materials</i> , 2006 , 16, 2415-2422	15.6	89
467	Photoluminescence and structural characteristics of CdS nanoclusters synthesized by hydrothermal microemulsion. <i>Journal of Applied Physics</i> , 2001 , 89, 1059-1063	2.5	89
466	Three dimensional Fe ₂ O ₃ /polypyrrole (Ppy) nanoarray as anode for micro lithium ion batteries. <i>Nano Energy</i> , 2013 , 2, 726-732	17.1	88
465	Metal-Semiconductor Phase-Transition in WSe ₂ Te Monolayer. <i>Advanced Materials</i> , 2017 , 29, 1603991	24	88
464	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	1.8	88
463	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	2.5	88
462	Fabrication of Graphene Nanodisk Arrays Using Nanosphere Lithography. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6529-6532	3.8	87
461	Reversible UV-light-induced ultrahydrophobic-to-ultrahydrophilic transition in an alpha-Fe ₂ O ₃ nanoflakes film. <i>Langmuir</i> , 2008 , 24, 10569-71	4	87
460	Unraveling the Potassium Storage Mechanism in Graphite Foam. <i>Advanced Energy Materials</i> , 2019 , 9, 1900579	21.8	86
459	Monolayers of WxMo _{1-x} S ₂ alloy heterostructure with in-plane composition variations. <i>Applied Physics Letters</i> , 2015 , 106, 063113	3.4	86
458	Oxidation, defunctionalization and catalyst life cycle of carbon nanotubes: a Raman spectroscopy view. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2276-2285	3.6	85
457	Large-Scale Synthesis of Bi-layer Graphene in Strongly Coupled Stacking Order. <i>Advanced Functional Materials</i> , 2011 , 21, 911-917	15.6	85
456	Substrate-friendly synthesis of metal oxide nanostructures using a hotplate. <i>Small</i> , 2006 , 2, 80-4	11	84
455	Compositional mapping of the argon/methane/hydrogen system for polycrystalline to nanocrystalline diamond film growth in a hot-filament chemical vapor deposition system. <i>Applied Physics Letters</i> , 2000 , 77, 2692-2694	3.4	84
454	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	3.8	83

453	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	13	82
452	Nonlinear graphene metamaterial. <i>Applied Physics Letters</i> , 2012 , 100, 181109	3.4	82
451	Ferroelectric transistors with nanowire channel: toward nonvolatile memory applications. <i>ACS Nano</i> , 2009 , 3, 700-6	16.7	82
450	Thermal stability study of NiSi and NiSi ₂ thin films. <i>Microelectronic Engineering</i> , 2004 , 71, 104-111	2.5	82
449	Rapid Pseudocapacitive Sodium-Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. <i>Advanced Functional Materials</i> , 2017 , 27, 1606232	15.6	81
448	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	17.1	81
447	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400499	4.6	80
446	Electronic Structures and Structural Evolution of Hydrogenated Graphene Probed by Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1422-1427	3.8	80
445	Water-Responsive Shape Recovery Induced Buckling in Biodegradable Photo-Cross-Linked Poly(ethylene glycol) (PEG) Hydrogel. <i>Accounts of Chemical Research</i> , 2017 , 50, 141-150	24.3	78
444	A Hierarchical MoP Nanoflake Array Supported on Ni Foam: A Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small Methods</i> , 2018 , 2, 1700369	12.8	78
443	Improving Polysulfides Adsorption and Redox Kinetics by the Co N Nanoparticle/N-Doped Carbon Composites for Lithium-Sulfur Batteries. <i>Small</i> , 2019 , 15, e1901454	11	77
442	Laser Pruning of Carbon Nanotubes as a Route to Static and Movable Structures. <i>Advanced Materials</i> , 2003 , 15, 300-303	24	77
441	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	5.1	76
440	High-performance asymmetric pseudocapacitor cell based on cobalt hydroxide/graphene and polypyrrole/graphene electrodes. <i>Journal of Power Sources</i> , 2015 , 275, 298-304	8.9	76
439	Highly ordered arrays of particle-in-bowl plasmonic nanostructures for surface-enhanced raman scattering. <i>Small</i> , 2012 , 8, 2548-54	11	75
438	Orientation-Dependent Raman Spectroscopy of Single Wurtzite CdS Nanowires. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1865-1870	3.8	75
437	Gold on graphene as a substrate for surface enhanced Raman scattering study. <i>Applied Physics Letters</i> , 2010 , 97, 163111	3.4	73
436	Exciton-Related Photoluminescence and Lasing in CdS Nanobelts. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12826-12830	3.8	73

435	The effect of layer number and substrate on the stability of graphene under MeV proton beam irradiation. <i>Carbon</i> , 2011 , 49, 1720-1726	10.4	73
434	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₂ PbBr Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018 , 30, 1705017	24	73
433	Morphology Controllable Synthesis of Fe ₂ O ₃ 1D Nanostructures: Growth Mechanism and Nanodevice Based on Single Nanowire. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10784-10788	3.8	72
432	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2488-2495	13	71
431	Study on Phase Formation Mechanism of Non- and Near-Stoichiometric Cu ₂ ZnSn(S,Se) ₄ Film Prepared by Selenization of Cu ₂ SnZnS Precursors. <i>Chemistry of Materials</i> , 2014 , 26, 2005-2014	9.6	71
430	Modulating the electronic structures of graphene by controllable hydrogenation. <i>Applied Physics Letters</i> , 2010 , 97, 233111	3.4	71
429	Complete band-structure determination of the quasi-two-dimensional Fermi-liquid reference compound TiTe ₂ . <i>Physical Review B</i> , 1996 , 54, 2453-2465	3.3	71
428	Pressure-induced strong mode coupling and phase transitions in KNbO ₃ . <i>Physical Review B</i> , 1995 , 52, 3976-3980	3.3	70
427	Nitrogen-doped Graphene-Supported Transition-metals Carbide Electrocatalysts for Oxygen Reduction Reaction. <i>Scientific Reports</i> , 2015 , 5, 10389	4.9	69
426	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. <i>Nanotechnology</i> , 2010 , 21, 255701	3.4	69
425	Size effect on the ferroelectric phase transition in SrBi ₂ Ta ₂ O ₉ nanoparticles. <i>Journal of Applied Physics</i> , 2003 , 94, 618-620	2.5	69
424	Two-dimensional structures of ferroelectric domain inversion in LiNbO ₃ by direct electron beam lithography. <i>Journal of Applied Physics</i> , 2003 , 93, 9943-9946	2.5	69
423	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	8.9	69
422	A low-cost and one-step synthesis of N-doped monolithic quasi-graphene films with porous carbon frameworks for Li-ion batteries. <i>Nano Energy</i> , 2015 , 17, 43-51	17.1	68
421	Co ₃ O ₄ /nitrogen modified graphene electrode as Li-ion battery anode with high reversible capacity and improved initial cycle performance. <i>Nano Energy</i> , 2014 , 3, 134-143	17.1	67
420	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. <i>Nano Energy</i> , 2012 , 1, 723-731	17.1	67
419	High temperature Raman study of phase transitions in antiferroelectric NaNbO ₃ . <i>Journal of Molecular Structure</i> , 1996 , 385, 1-6	3.4	67
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