K-H Chen

List of Publications by Year in Descending Order

507 papers	19,035 citations	68 h-index	117 g-index
515 ext. papers	20,854 ext. citations	6.1 avg, IF	6.47 L-index

#	Paper	IF	Citations
507	Co3V2O8 hollow spheres with mesoporous walls as high-capacitance electrode for hybrid supercapacitor device. *Chemical Engineering Journal*, **2022**, 436, 135225	14.7	4
506	Boosting photocatalytic CO2 reduction in a ZnS/ZnIn2S4 heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO2 interaction thereon. *Nano Energy*, **2022**, 93, 106809	17.1	9
505	Understanding the effect of sputtering pressures on the thermoelectric properties of GeTe films. *Journal of Alloys and Compounds*, **2022**, 893, 162342	5.7	0
504	Metal-free four-in-one modification of g-C3N4 for superior photocatalytic CO2 reduction and H2 evolution. *Chemical Engineering Journal*, **2022**, 430, 132853	14.7	7
503	Atomistic insights into highly active reconstructed edges of monolayer 2H-WSe photocatalyst.. *Nature Communications*, **2022**, 13, 1256	17.4	6
502	Enhancing the Areal Capacity and Stability of CuZnSnS Anode Materials by Carbon Coating: Mechanistic and Structural Studies During Lithiation and Delithiation.. *ACS Omega*, **2022**, 7, 9152-9163	3.9	0
501	S-Scheme Fe2O3/g-C3N4 Nanocomposites as Heterojunction Photocatalysts for Antibiotic Degradation. *ACS Applied Nano Materials*, **2022**, 5, 4506-4514	5.6	4
500	Enhanced Thermoelectric Performance in Ternary Skutterudite Co(GeTe) via Band Engineering.. *Inorganic Chemistry*, **2022**, 61, 4442-4452	5.1	1
499	Bandgap Shrinkage and Charge Transfer in 2D Layered SnS Doped with V for Photocatalytic Efficiency Improvement. *Small*, **2021**, e2105076	11	1
498	Achieving synergistic performance through highly compacted microcrystalline rods induced in Mo doped GeTe based compounds. *Materials Today Physics*, **2021**, 100571	8	0
497	Enhancing the photovoltaic properties of SnS-Based solar cells by crystallographic orientation engineering. *Solar Energy Materials and Solar Cells*, **2021**, 111499	6.4	0
496	Synergistic Dual-Atom Molecular Catalyst Derived from Low-Temperature Pyrolyzed Heterobimetallic Macrocycle-N4 Corrole Complex for Oxygen Reduction. *Small*, **2021**, 17, e2103823	11	1
495	Thickness-Dependent Photocatalysis of Ultra-Thin MoS2 Film for Visible-Light-Driven CO2 Reduction. *Catalysts*, **2021**, 11, 1295	4	0
494	Poly(ether sulfone)-Based Anion Exchange Membranes Containing Dense Quaternary Ammonium Cations and Their Application for Fuel Cells. *ACS Applied Energy Materials*, **2021**, 4, 2201-2217	6.1	5
493	Optimal method for preparing sulfonated polyaryletherketones with high ion exchange capacity by acid-catalyzed crosslinking for proton exchange membrane fuel cells. *Journal of Polymer Science*, **2021**, 59, 706-720	2.4	0
492	Solar to hydrocarbon production using metal-free water-soluble bulk heterojunction of conducting polymer nanoparticle and graphene oxide. *Journal of Chemical Physics*, **2021**, 154, 164707	3.9	1
491	Hydrogen enhancing Ga doping efficiency and electron mobility in high-performance transparent conducting Ga-doped ZnO films. *Journal of Alloys and Compounds*, **2021**, 860, 158518	5.7	8

490	Thermally Strain-Induced Band Gap Opening on Platinum Diselenide-Layered Films: A Promising Two-Dimensional Material with Excellent Thermoelectric Performance. *Chemistry of Materials*, **2021**, 33, 3490-3498	9.6	4
489	Two-Dimensional Layered NiLiP2S6 Crystals as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. *Catalysts*, **2021**, 11, 786	4	
488	Surface electron accumulation and enhanced hydrogen evolution reaction in MoSe2 basal planes. *Nano Energy*, **2021**, 84, 105922	17.1	10
487	Copper Zinc Tin Sulfide Anode Materials for Lithium-Ion Batteries at Low Temperature. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8970-8979	8.3	5
486	Localized surface plasmonic resonance role of silver nanoparticles in the enhancement of long-chain hydrocarbons of the CO2 reduction over Ag-gC3N4/ZnO nanorods photocatalysts. *Chemical Engineering Science*, **2021**, 229, 116049	4.4	15
485	Superior lithium-ion storage performance of hierarchical tin disulfide and carbon nanotube-carbon cloth composites. *Journal of Power Sources*, **2021**, 482, 228923	8.9	10
484	Electronic structure modulation of isolated Co-N4 electrocatalyst by sulfur for improved pH-universal hydrogen evolution reaction. *Nano Energy*, **2021**, 80, 105544	17.1	13
483	Microstructural intra-granular cracking in Cu2ZnSnS4@C thin-film anode enhanced the electrochemical performance in lithium-ion battery applications. *Materials Advances*, **2021**, 2, 5672-5685	3.3	1
482	Nanoscale redox mapping at the MoS-liquid interface. *Nature Communications*, **2021**, 12, 1321	17.4	5
481	Impact of Cation Substitution in (AgxCu1−x)2ZnSnSe4 Absorber-Based Solar Cells toward 10% Efficiency: Experimental and Theoretical Analyses. *Solar Rrl*, **2021**, 5, 2100441	7.1	3
480	Enhancing thermoelectric performance of Sn0.5Ge0.5Te via doping with In/Zn, In/Sb and In/Bi. *Journal of Solid State Chemistry*, **2021**, 302, 122444	3.3	0
479	High-efficient photocatalytic degradation of commercial drugs for pharmaceutical wastewater treatment prospects: A case study of Ag/g-CN/ZnO nanocomposite materials. *Chemosphere*, **2021**, 282, 130971	8.4	10
478	High and Its Origin in Sb-doped GeTe Single Crystals. *Advanced Science*, **2020**, 7, 2002494	13.6	18
477	A mechanistic study of molecular CO2 interaction and adsorption on carbon implanted SnS2 thin film for photocatalytic CO2 reduction activity. *Nano Energy*, **2020**, 72, 104717	17.1	32
476	Highly improved thermoelectric performance of BiCuTeO achieved by decreasing the oxygen content. *Materials Today Physics*, **2020**, 15, 100248	8	5
475	On the Reduction of O2 on Cathode Surfaces of Co□orrin and Co□orphyrin: A Computational and Experimental Study on Their Relative Efficiencies in H2O/H2O2 Formation. *Journal of Physical Chemistry C*, **2020**, 124, 4652-4659	3.8	2
474	Synergistic optimization of thermoelectric performance of Sb doped GeTe with a strained domain and domain boundaries. *Journal of Materials Chemistry A*, **2020**, 8, 5332-5341	13	29
473	Advanced nanoporous separators for stable lithium metal electrodeposition at ultra-high current densities in liquid electrolytes. *Journal of Materials Chemistry A*, **2020**, 8, 5095-5104	13	25

472	Integrated nano-architectured photocatalysts for photochemical CO reduction. *Nanoscale*, **2020**, 12, 23301-23332	7.7	30
471	Fast growth of large-grain and continuous MoS films through a self-capping vapor-liquid-solid method. *Nature Communications*, **2020**, 11, 3682	17.4	36
470	Probing the active site in single-atom oxygen reduction catalysts via operando X-ray and electrochemical spectroscopy. *Nature Communications*, **2020**, 11, 4233	17.4	31
469	Enhanced Thermoelectric Properties of In-Filled Co4Sb12 with InSb Nanoinclusions. *ACS Applied Energy Materials*, **2020**, 3, 635-646	6.1	15
468	Polybenzimidazoles containing heterocyclic benzo[c]cinnoline structure prepared by sol-gel process and acid doping level adjustment for high temperature PEMFC application. *Polymer*, **2019**, 182, 121814	3.9	3
467	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. *ACS Sensors*, **2019**, 4, 406-412	9.2	20
466	Effect of single metal doping on the thermoelectric properties of SnTe. *Sustainable Energy and Fuels*, **2019**, 3, 251-263	5.8	12
465	Thermoelectric properties of Pb and Na dual doped BiCuSeO. *AIP Advances*, **2019**, 9, 015025	1.5	6
464	Enhanced thermoelectric performance of BiCuTeO by excess Bi additions. *Ceramics International*, **2019**, 45, 9254-9259	5.1	6
463	Effect of Sn Substitution on the Thermoelectric Properties of Synthetic Tetrahedrite. *ACS Applied Materials & Interfaces*, **2019**, 11, 21686-21696	9.5	10
462	Interface engineering of CdS/CZTSSe heterojunctions for enhancing the Cu2ZnSn(S,Se)4 solar cell efficiency. *Materials Today Energy*, **2019**, 13, 256-266	7	12
461	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metal□Organic-Framework-Derived Cu□Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10349-10362	8.3	52
460	Enhanced thermoelectric performance of GeTe through in situ microdomain and Ge-vacancy control. *Journal of Materials Chemistry A*, **2019**, 7, 15181-15189	13	35
459	Thermoelectric Properties of Zn Doped BiCuSeO. *Journal of Electronic Materials*, **2019**, 48, 3631-3642	1.9	4
458	Integration of a (-Cu-S-) plane in a metal-organic framework affords high electrical conductivity. *Nature Communications*, **2019**, 10, 1721	17.4	85
457	Highly efficient nitrogen and carbon coordinated N□Co□ electrocatalysts on reduced graphene oxide derived from vitamin-B12 for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 7179-7185	13	26
456	Edge Doping Effect to the Surface Plasmon Resonances in Graphene Nanoribbons. *Journal of Physical Chemistry C*, **2019**, 123, 19820-19827	3.8	2
455	KSCN-induced Interfacial Dipole in Black TiO for Enhanced Photocatalytic CO Reduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 25186-25194	9.5	37

454	Enhanced Thermoelectric Performance via Oxygen Manipulation in BiCuTeO. *MRS Advances*, **2019**, 4, 499-505	0.7	1
453	Origin of Band Modulation in GeTe-Rich Ge□Sb□Te Thin Film. *ACS Applied Electronic Materials*, **2019**, 1, 2619-2625	4	2
452	Thermoelectric and electronic properties of chromium substituted tetrahedrite. *Semiconductor Science and Technology*, **2019**, 34, 035017	1.8	7
451	Thermoelectric properties of Mn doped BiCuSeO. *Materials Research Express*, **2019**, 6, 086305	1.7	4
450	Effect of annealing temperature on thermoelectric properties of Ga and In dually doped - ZnO thin films. *Journal of Alloys and Compounds*, **2018**, 747, 156-165	5.7	18
449	Enhancement in Thermoelectric Properties of TiS2 by Sn Addition. *Journal of Electronic Materials*, **2018**, 47, 3091-3098	1.9	5
448	Carbon-doped SnS nanostructure as a high-efficiency solar fuel catalyst under visible light. *Nature Communications*, **2018**, 9, 169	17.4	219
447	Analysis and characterization of an atropisomeric ionomer containing quaternary ammonium groups. *Polymer*, **2018**, 141, 143-153	3.9	4
446	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 24, 1-10	3.8	3
445	Flexible sensor for dopamine detection fabricated by the direct growth of □Fe2O3 nanoparticles on carbon cloth. *Applied Surface Science*, **2018**, 427, 387-395	6.7	30
444	Above 10% efficiency earth-abundant Cu2ZnSn(S,Se)4 solar cells by introducing alkali metal fluoride nanolayers as electron-selective contacts. *Nano Energy*, **2018**, 51, 597-603	17.1	15
443	Thermoelectric properties of BiCuSeO with bismuth and oxygen vacancies. *Journal Physics D: Applied Physics*, **2018**, 51, 035501	3	10
442	A synergistic □ascade□effect in copper zinc tin sulfide nanowalls for highly stable and efficient lithium ion storage. *Nano Energy*, **2018**, 44, 438-446	17.1	17
441	Ni-Nanocluster Modified Black TiO with Dual Active Sites for Selective Photocatalytic CO Reduction. *Small*, **2018**, 14, 1702928	11	80
440	Influence of GeP precipitates on the thermoelectric properties of P-type GeTe and Ge0.9□PxSb0.1Te compounds. *CrystEngComm*, **2018**, 20, 6449-6457	3.3	5
439	Multicolor Ultralow-Threshold Random Laser Assisted by Vertical-Graphene Network. *Advanced Optical Materials*, **2018**, 6, 1800382	8.1	25
438	Photoconduction properties and anomalous power-dependent quantum efficiency in non-polar ZnO epitaxial films grown by chemical vapor deposition. *Applied Physics Letters*, **2017**, 110, 052101	3.4	6
437	Geogrid-Inspired Nanostructure to Reinforce a CuxZnySnzS Nanowall Electrode for High-Stability Electrochemical Energy Conversion Devices. *Advanced Energy Materials*, **2017**, 7, 1602210	21.8	11

436	Pyrolysis of Iron Vitamin B9 As a Potential Nonprecious Metal Electrocatalyst for Oxygen Reduction Reaction. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2897-2905	8.3	11
435	Synthesis and Properties of Poly(ether sulfone)s with Clustered Sulfonic Groups for PEMFC Applications under Various Relative Humidity. *ACS Applied Materials & Interfaces*, **2017**, 9, 9805-9814	8.5	15
434	Hybrid bimetallic-N4 electrocatalyst derived from a pyrolyzed ferrocene Co-corrole complex for oxygen reduction reaction. *Journal of Materials Chemistry A*, **2017**, 5, 9279-9286	13	14
433	Multi-porous Co3O4 nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 12569-12577	13	83
432	High- Samarium-Based Metal-Organic Framework for Gate Dielectric Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 21872-21878	9.5	10
431	Enhanced hydrogen evolution reaction on hybrids of cobalt phosphide and molybdenum phosphide. *Royal Society Open Science*, **2017**, 4, 161016	3.3	13
430	Co-solvent effect on microwave-assisted Cu2ZnSnS4 nanoparticles synthesis for thin film solar cell. *Solar Energy Materials and Solar Cells*, **2017**, 161, 416-423	6.4	10
429	Effect of pore-directing agents in SBA-15 nanoparticles on the performance of Nafion /SBA-15n composite membranes for DMFC. *Journal of Membrane Science*, **2017**, 526, 106-117	9.6	29
428	Improved Solar-Driven Photocatalytic Activity of Hybrid Graphene Quantum Dots/ZnO Nanowires: A Direct Z-Scheme Mechanism. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 367-375	8.3	88
427	Photoconductivities in m-plane and c-plane ZnO epitaxial films grown by chemical vapor deposition on LiGaO2 substrates: a comparative study. *RSC Advances*, **2016**, 6, 86095-86100	3.7	5
426	Improving the thermoelectric performance of metastable rock-salt GeTe-rich Ge Sb Te thin films through tuning of grain orientation and vacancies. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 3122-3129	1.6	3
425	Nonlinear bandgap opening behavior of BN co-doped graphene. *Carbon*, **2016**, 107, 857-864	10.4	21
424	Thermoelectric Properties of Indium and Gallium Dually Doped ZnO Thin Films. *ACS Applied Materials & Interfaces*, **2016**, 8, 33916-33923	9.5	49
423	Directly-Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. *ChemSusChem*, **2016**, 9, 370-8	8.3	40
422	Synthesis and characterization of novel imidazolium-functionalized polyimides for high temperature proton exchange membrane fuel cells. *RSC Advances*, **2016**, 6, 33959-33970	3.7	14
421	Local property change of graphene induced by a Cu nanoparticle. *Carbon*, **2016**, 98, 666-670	10.4	3
420	Enhancement of charge collection at shorter wavelengths from alternative CdS deposition conditions for high efficiency CZTSSe solar cells. *Solar Energy Materials and Solar Cells*, **2016**, 149, 49-54	6.4	14
419	Beaded stream-like CoSe2 nanoneedle array for efficient hydrogen evolution electrocatalysis. *Journal of Materials Chemistry A*, **2016**, 4, 4553-4561	13	76

418	Effect of pore-directing agents and silanol groups in mesoporous silica nanoparticles as Nafion fillers on the performance of DMFCs. *RSC Advances*, **2016**, 6, 111666-111680	3.7	5
417	Scanning microwave microscope imaging of micro-patterned monolayer graphene grown by chemical vapor deposition. *Applied Physics Letters*, **2016**, 108, 053101	3.4	6
416	Synthesis of soluble polybenzimidazoles for high-temperature proton exchange membrane fuel cell (PEMFC) applications. *Reactive and Functional Polymers*, **2016**, 108, 122-129	4.6	13
415	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. *ACS Photonics*, **2016**, 3, 985-991	6.3	10
414	Fabrication of Cu2ZnSnSe4 solar cells through multi-step selenization of layered metallic precursor film. *Thin Solid Films*, **2016**, 618, 42-49	2.2	8
413	A facile and green synthesis of copper zinc tin sulfide materials for thin film photovoltaics. *Thin Solid Films*, **2016**, 618, 124-129	2.2	1
412	Polybenzimidazoles containing bulky substituents and ether linkages for high-temperature proton exchange membrane fuel cell applications. *Journal of Membrane Science*, **2016**, 513, 270-279	9.6	34
411	Enhanced thermoelectric performance in a percolated bismuth sulfide composite. *RSC Advances*, **2016**, 6, 98952-98955	3.7	3
410	Enhanced solar cell performance of Cu2ZnSn(S,Se)4 thin films through structural control by using multi-metallic stacked nanolayers and fast ramping process for sulfo-selenization. *Nano Energy*, **2016**, 30, 762-770	17.1	19
409	Thickness-Dependent Binding Energy Shift in Few-Layer MoS2 Grown by Chemical Vapor Deposition. *ACS Applied Materials & Interfaces*, **2016**, 8, 22637-46	9.5	40
408	Novel polyimides containing benzimidazole for temperature proton exchange membrane fuel. *Journal of Membrane Science*, **2015**, 483, 144-154	9.6	28
407	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu2ZnSnS4 solar cells. *Nano Energy*, **2015**, 16, 438-445	17.1	55
406	The effects of fluorine-contained molecules on improving the polymer solar cell by curing the anomalous S-shaped I-V curve. *ACS Applied Materials & Interfaces*, **2015**, 7, 6683-9	9.5	3
405	Transparent, broadband, flexible, and bifacial-operable photodetectors containing a large-area graphene-gold oxide heterojunction. *ACS Nano*, **2015**, 9, 5093-103	16.7	47
404	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. *Biosensors and Bioelectronics*, **2015**, 70, 137-44	11.8	28
403	Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure. *CrystEngComm*, **2015**, 17, 3440-3445	3.3	23
402	Enhancement of thermoelectric figure of merit in □Zn4Sb3 by indium doping control. *Applied Physics Letters*, **2015**, 107, 123902	3.4	21
401	Conducting polymer-based flexible supercapacitor. *Energy Science and Engineering*, **2015**, 3, 2-26	3.4	377

400	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. *Carbon*, **2015**, 82, 124-134	10.4	58
399	Comparison of CVD- and MBE-grown GaN Nanowires: Crystallinity, Photoluminescence, and Photoconductivity. *Journal of Electronic Materials*, **2015**, 44, 177-187	1.9	10
398	Plasmonic Switching in Au-Functionalized GaN Nanowires in the Realm of Surface Plasmon Polariton Propagation: a Single Nanowire Switching Device. *Plasmonics*, **2015**, 10, 347-350	2.4	9
397	Nano-textured fluidic biochip as biological filter for selective survival of neuronal cells. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 2015-23	5.4	7
396	Single-Crystal Y2O3 Epitaxially on GaAs(001) and (111) Using Atomic Layer Deposition. *Materials*, **2015**, 8, 7084-7093	3.5	15
395	Surface plasmon polariton assisted optical switching in noble bimetallic nanoparticle system. *Applied Physics Letters*, **2015**, 106, 023101	3.4	7
394	Pulsed electrochemical deposition of Pt NPs on polybenzimidazole-CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. *International Journal of Hydrogen Energy*, **2015**, 40, 14398-14404	6.7	5
393	A nontoxic solvent based sol□gel Cu2ZnSnS4 thin film for high efficiency and scalable low-cost photovoltaic cells. *Journal of Materials Chemistry A*, **2015**, 3, 15324-15330	13	47
392	Functionalizing Biomaterials to Be an Efficient Proton-Exchange Membrane and Methanol Barrier for DMFCs. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 302-308	8.3	16
391	Design for approaching Cicada-wing reflectance in low- and high-index biomimetic nanostructures. *ACS Nano*, **2015**, 9, 301-11	16.7	71
390	Side group of poly(3-alkylthiophene)s controlled dispersion of single-walled carbon nanotubes for transparent conducting film. *ACS Applied Materials & Interfaces*, **2015**, 7, 4616-22	9.5	10
389	Production and Storage of Energy with One-Dimensional Semiconductor Nanostructures. *Critical Reviews in Solid State and Materials Sciences*, **2014**, 39, 109-153	10.1	5
388	Highly efficient visible light photocatalytic reduction of CO2 to hydrocarbon fuels by Cu-nanoparticle decorated graphene oxide. *Nano Letters*, **2014**, 14, 6097-103	11.5	254
387	Surface plasmon resonance-induced color-selective Au-peapodded silica nanowire photodetectors with high photoconductive gain. *Nanoscale*, **2014**, 6, 1264-70	7.7	12
386	Nondestructive characterization of the structural quality and thickness of large-area graphene on various substrates. *Analytical Chemistry*, **2014**, 86, 7192-9	7.8	6
385	Direct assessment of the mechanical modulus of graphene co-doped with low concentrations of boron-nitrogen by a non-contact approach. *Nanoscale*, **2014**, 6, 8635-41	7.7	10
384	A high performance polybenzimidazole□CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. *Journal of Materials Chemistry A*, **2014**, 2, 7015-7019	13	17
383	SIMS methodology for probing the fate and dispersion of catalytically active molecules. *International Journal of Mass Spectrometry*, **2014**, 370, 107-113	1.9	5

382	Low temperature magneto-transport properties in bilayered magnetic anti-dot mircoarrays. *Applied Surface Science*, **2014**, 314, 453-457	6.7	3
381	Binder-free rice husk-based silicon□graphene composite as energy efficient Li-ion battery anodes. *Journal of Materials Chemistry A*, **2014**, 2, 13437-13441	13	97
380	Cobalt-phosphate-assisted photoelectrochemical water oxidation by arrays of molybdenum-doped zinc oxide nanorods. *ChemSusChem*, **2014**, 7, 2748-54	8.3	18
379	Characterization of the cleaning process on a transferred graphene. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2014**, 32, 050601	2.9	8
378	Fabrication of m-axial InGaN nanocolumn arrays on silicon substrates using triethylgallium precursor chemical vapor deposition approach. *Applied Surface Science*, **2014**, 299, 92-96	6.7	1
377	Graphene-to-substrate energy transfer through out-of-plane longitudinal acoustic phonons. *Nano Letters*, **2014**, 14, 1317-23	11.5	22
376	Novel iron oxyhydroxide lepidocrocite nanosheet as ultrahigh power density anode material for asymmetric supercapacitors. *Small*, **2014**, 10, 3803-10	11	125
375	Hierarchically Porous Calcium-containing Manganese Dioxide Nanorod Bundles with Superior Photoelectrochemical Activity. *ChemCatChem*, **2014**, 6, 1684-1690	5.2	9
374	Plasmon management in index engineered 2.5D hybrid nanostructures for surface-enhanced Raman scattering. *NPG Asia Materials*, **2014**, 6, e123-e123	10.3	6
373	Photoelectrochemical activity on Ga-polar and N-polar GaN surfaces for energy conversion. *Optics Express*, **2014**, 22 Suppl 1, A21-7	3.3	21
372	Effect of copper oxide oxidation state on the polymer-based solar cell buffer layers. *ACS Applied Materials & Interfaces*, **2014**, 6, 22445-50	9.5	30
371	Surface diffusion controlled formation of high quality vertically aligned InN nanotubes. *Journal of Applied Physics*, **2014**, 116, 124301	2.5	7
370	Excitons and biexcitons in InGaN quantum dot like localization centers. *Nanotechnology*, **2014**, 25, 495703	3.4	5
369	Optical properties of plasma-assisted molecular beam epitaxy grown InN/sapphire. *Optical Materials*, **2014**, 37, 1-4	3.3	6
368	Growth of □Ga2O3 and GaN nanowires on GaN for photoelectrochemical hydrogen generation. *Nanotechnology*, **2013**, 24, 055401	3.4	23
367	Suppressed piezoelectric polarization in single InGaN/GaN heterostructure nanowires. *Physical Review B*, **2013**, 88,	3.3	8
366	Resistance memory device of La0.7Sr0.3MnO3 on Si nanotips template. *Applied Physics Letters*, **2013**, 103, 211606	3.4	6
365	High-performance pyrolyzed iron corrole as a potential non-precious metal catalyst for PEMFCs. *Journal of Materials Chemistry A*, **2013**, 1, 14692	13	23

364	Using optical anisotropy as a quality factor to rapidly characterize structural qualities of large-area graphene films. *Analytical Chemistry*, **2013**, 85, 1605-14	7.8	8
363	Band gap engineering of chemical vapor deposited graphene by in situ BN doping. *ACS Nano*, **2013**, 7, 1333-41	16.7	222
362	Graphene oxide as a promising photocatalyst for CO2 to methanol conversion. *Nanoscale*, **2013**, 5, 262-8	7.7	346
361	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. *Carbon*, **2013**, 63, 397-403	10.4	43
360	Direct-growth of poly(3,4-ethylenedioxythiophene) nanowires/carbon cloth as hierarchical supercapacitor electrode in neutral aqueous solution. *Journal of Power Sources*, **2013**, 242, 718-724	8.9	56
359	Improved corrosion resistance of GaN electrodes in NaCl electrolyte for photoelectrochemical hydrogen generation. *International Journal of Hydrogen Energy*, **2013**, 38, 14433-14439	6.7	13
358	Effect of chemical doping of boron and nitrogen on the electronic, optical, and electrochemical properties of carbon nanotubes. *Progress in Materials Science*, **2013**, 58, 565-635	42.2	227
357	Imaging layer number and stacking order through formulating Raman fingerprints obtained from hexagonal single crystals of few layer graphene. *Nanotechnology*, **2013**, 24, 015702	3.4	42
356	Atomistic nucleation sites of Pt nanoparticles on N-doped carbon nanotubes. *Nanoscale*, **2013**, 5, 6812-8	7.7	27
355	High k nanophase zinc oxide on biomimetic silicon nanotip array as supercapacitors. *Nano Letters*, **2013**, 13, 1422-8	11.5	23
354	Anomalous quantum efficiency for photoconduction and its power dependence in metal oxide semiconductor nanowires. *Nanoscale*, **2013**, 5, 6867-73	7.7	21
353	Photoconduction efficiencies of metal oxide semiconductor nanowires: The material's inherent properties. *Applied Physics Letters*, **2013**, 103, 223107	3.4	16
352	Nucleation of single GaN nanorods with diameters smaller than 35 nm by molecular beam epitaxy. *Applied Physics Letters*, **2013**, 103, 203108	3.4	5
351	Surface plasmon-enhanced gas sensing in single gold-peapodded silica nanowires. *NPG Asia Materials*, **2013**, 5, e49-e49	10.3	16
350	Effect of substrate temperature on orientation of subphthalocyanine molecule in organic photovoltaic cells. *Thin Solid Films*, **2012**, 520, 2289-2292	2.2	21
349	Enhancements in device efficiency of poly(3-hexylthiophene): [6,6]-phenyl C61-butyric acid methyl ester based solar cells with incorporation of bathocuproine. *Thin Solid Films*, **2012**, 520, 5413-5416	2.2	4
348	Polarized emission and excitonic fine structure energies of InGaN quantum dots. *Physica B: Condensed Matter*, **2012**, 407, 1553-1555	2.8	1
347	Gold nanoparticle-modulated conductivity in gold peapodded silica nanowires. *Nanoscale*, **2012**, 4, 3660-4	7.7	8

346	Patterned growth of nanocrystalline silicon thin films through magnesiothermic reduction of soda lime glass. *Green Chemistry*, **2012**, 14, 896	10	18
345	Polarized and diameter-dependent Raman scattering from individual aluminum nitride nanowires: The antenna and cavity effects. *Applied Physics Letters*, **2012**, 101, 121902	3.4	13
344	Room-temperature heteroepitaxy of single-phase Al1−InxN films with full composition range on isostructural wurtzite templates. *Thin Solid Films*, **2012**, 524, 113-120	2.2	19
343	Dynamic characteristics of the exciton and the biexciton in a single InGaN quantum dot. *Applied Physics Letters*, **2012**, 101, 061910	3.4	16
342	Photochemically active reduced graphene oxide with controllable oxidation level. *RSC Advances*, **2012**, 2, 11258	3.7	19
341	Effect of substrate bias on the promotion of nanocrystalline silicon growth from He-diluted SiH4 plasma at low temperature. *Journal of Materials Research*, **2012**, 27, 1303-1313	2.5	10
340	Vitalizing fuel cells with vitamins: pyrolyzed vitamin B12 as a non-precious catalyst for enhanced oxygen reduction reaction of polymer electrolyte fuel cells. *Energy and Environmental Science*, **2012**, 5, 5305-5314	35.4	104
339	Giant Positive Magnetoresistance in Ferromagnetic Manganites/Silicon Nanotips Diode. *Journal of Physical Chemistry C*, **2012**, 116, 21132-21137	3.8	9
338	High stability of oxidation of methanol catalyzed by Pt supported by oxygen-incorporated bamboo-shaped CNTs grown directly on carbon cloth. *International Journal of Hydrogen Energy*, **2012**, 37, 10663-10670	6.7	5
337	Preparation of non-precious metal catalysts for PEMFC cathode from pyrolyzed vitamin B12. *International Journal of Hydrogen Energy*, **2012**, 37, 13755-13762	6.7	24
336	Graphene nanosheet–CNT hybrid nanostructure electrode for a proton exchange membrane fuel cell. *International Journal of Hydrogen Energy*, **2012**, 37, 18989-18995	6.7	28
335	Stand-up structure of graphene-like carbon nanowalls on CNT directly grown on polyacrylonitrile-based carbon fiber paper as supercapacitor. *Diamond and Related Materials*, **2012**, 25, 176-179	3.5	57
334	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. *Journal of Physical Chemistry C*, **2012**, 116, 16251-16258	3.8	43
333	Enhancing efficiency with fluorinated interlayers in small molecule organic solar cells. *Journal of Materials Chemistry*, **2012**, 22, 22899		18
332	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. *Nanoscale*, **2012**, 4, 6515-9	7.7	106
331	Stacking Orientation Mediation of Pentacene and Derivatives for High Open-Circuit Voltage Organic Solar Cells. *Journal of Physical Chemistry Letters*, **2012**, 3, 1079-83	6.4	11
330	Plasmonic Ag@Ag3(PO4)1− nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. *Energy and Environmental Science*, **2012**, 5, 8917	35.4	97
329	High-cell-voltage supercapacitor of carbon nanotube/carbon cloth operating in neutral aqueous solution. *Journal of Materials Chemistry*, **2012**, 22, 3383		112

328	Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical activity in response to visible light. *Journal of Materials Chemistry*, **2012**, 22, 2733-2739		78
327	Pyrolyzed Cobalt Corrole as a Potential Non-Precious Catalyst for Fuel Cells. *Advanced Functional Materials*, **2012**, 22, 3500-3508	15.6	93
326	Tunable photoluminescence from graphene oxide. *Angewandte Chemie - International Edition*, **2012**, 51, 6662-6	16.4	520
325	Highly proton-selective biopolymer layer-coated ion-exchange membrane for direct methanol fuel cells. *ChemSusChem*, **2012**, 5, 392-5	8.3	17
324	Studies of Electronic Excitations of Rectangular ZnO Nanorods by Electron Energy-Loss Spectroscopy. *Plasmonics*, **2012**, 7, 123-130	2.4	5
323	Biomimetic nanostructures for anti-reflection (AR) devices **2012**, 108-146		1
322	Growth of sparse arrays of narrow GaN nanorods hosting spectrally stable InGaN quantum disks. *Optics Express*, **2012**, 20, 16166	3.3	10
321	Photoconduction efficiencies and dynamics in GaN nanowires grown by chemical vapor deposition and molecular beam epitaxy: A comparison study. *Applied Physics Letters*, **2012**, 101, 113109	3.4	16
320	GaN-Based Sensors. *Springer Series in Materials Science*, **2012**, 165-207	0.9	5
319	Spontaneous Synthesis and Electrochemical Characterization of NanostructuredMnO2on Nitrogen-Incorporated Carbon Nanotubes. *International Journal of Electrochemistry*, **2012**, 2012, 1-10	2.4	2
318	Magnetic-field and temperature dependence of the energy gap in InN nanobelt. *AIP Advances*, **2012** , 2, 012155	1.5	2
317	Recent Advances in GaN Nanowires: Surface-Controlled Conduction and Sensing Applications. *Springer Series in Materials Science*, **2012**, 295-315	0.9	2
316	Ultrasensitive in situ label-free DNA detection using a GaN nanowire-based extended-gate field-effect-transistor sensor. *Analytical Chemistry*, **2011**, 83, 1938-43	7.8	118
315	Photocatalytic CdSe QDs-decorated ZnO nanotubes: an effective photoelectrode for splitting water. *Chemical Communications*, **2011**, 47, 3493-5	5.8	81
314	Origin and tuning of surface optic and long wavelength phonons in biomimetic GaAs nanotip arrays. *Optical Materials Express*, **2011**, 1, 535	2.6	1
313	Tuning open-circuit voltage in organic solar cells by magnesium modified Alq(3). *Journal of Applied Physics*, **2011**, 110, 83104-831045	2.5	4
312	Top laminated graphene electrode in a semitransparent polymer solar cell by simultaneous thermal annealing/releasing method. *ACS Nano*, **2011**, 5, 6564-70	16.7	172
311	Tuning energy levels in magnesium modified Alq3. *Journal of Applied Physics*, **2011**, 109, 083541	2.5	4

310	A novel membrane reactor for separating hydrogen and oxygen in photocatalytic water splitting. *Journal of Membrane Science*, **2011**, 382, 291-299	9.6	55
309	Two-domain formation during the epitaxial growth of GaN (0001) on c-plane Al2O3 (0001) by high power impulse magnetron sputtering. *Journal of Applied Physics*, **2011**, 110, 123519	2.5	15
308	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. *Journal of Physical Chemistry C*, **2011**, 115, 21971-21980	3.8	61
307	Electron field emission properties of highly dense carbon nanotube arrays. *Applied Physics A: Materials Science and Processing*, **2011**, 105, 11-16	2.6	9
306	A New Approach to Solar Hydrogen Production: a ZnO⁄ZnS Solid Solution Nanowire Array Photoanode. *Advanced Energy Materials*, **2011**, 1, 742-747	21.8	76
305	Label free sub-picomole level DNA detection with Ag nanoparticle decorated Au nanotip arrays as surface enhanced Raman spectroscopy platform. *Biosensors and Bioelectronics*, **2011**, 26, 2413-8	11.8	33
304	Catalytic performance of plate-type Cu/Fe nanocomposites on ZnO nanorods for oxidative steam reforming of methanol. *Chemical Communications*, **2011**, 47, 1473-5	5.8	18
303	Microwave-activated CuO nanotip/ZnO nanorod nanoarchitectures for efficient hydrogen production. *Journal of Materials Chemistry*, **2011**, 21, 324-326		44
302	Reversible phase transformation of MnO2 nanosheets in an electrochemical capacitor investigated by in situ Raman spectroscopy. *Chemical Communications*, **2011**, 47, 1252-4	5.8	173
301	A self-reductive mesoporous CuO(x)/Fe/silicate nanocomposite as a highly active and stable catalyst for methanol reforming. *Chemical Communications*, **2011**, 47, 9414-6	5.8	6
300	High performance of catalysts supported by directly grown PTFE-free micro-porous CNT layer in a proton exchange membrane fuel cell. *Journal of Materials Chemistry*, **2011**, 21, 2512		29
299	Photocurrent Mapping in High-Efficiency Radial p□ Junction Silicon Nanowire Solar Cells Using Atomic Force Microscopy. *Journal of Physical Chemistry C*, **2011**, 115, 21981-21986	3.8	16
298	Oxygen reducing activity of methanol-tolerant catalysts by high-temperature pyrolysis. *Diamond and Related Materials*, **2011**, 20, 322-329	3.5	16
297	A COMPARATIVE STUDY OF OPTICAL PROPERTIES OF C3N AND CN3 SYSTEMS THROUGH DENSITY FUNCTIONAL THEORY (DFT). *International Journal of Nanoscience*, **2011**, 10, 361-365	0.6	2
296	The production of SiC nanowalls sheathed with a few layers of strained graphene and their use in heterogeneous catalysis and sensing applications. *Carbon*, **2011**, 49, 4911-4919	10.4	28
295	Au nanoparticle modified GaN photoelectrode for photoelectrochemical hydrogen generation. *Electrochemistry Communications*, **2011**, 13, 530-533	5.1	14
294	Highly flexible supercapacitors with manganese oxide nanosheet/carbon cloth electrode. *Electrochimica Acta*, **2011**, 56, 7124-7130	6.7	198
293	Raman scattering and Rutherford backscattering studies on InN films grown by plasma-assisted molecular beam epitaxy. *Thin Solid Films*, **2011**, 519, 6778-6782	2.2	4

292	Low-Frequency Contact Noise of GaN Nanowire Device Detected by Cross-Spectrum Technique. *Japanese Journal of Applied Physics*, **2011**, 50, 06GF21	1.4	
291	Controlled growth of aligned -helical-polypeptide brushes for tunable electrical conductivity. *Applied Physics Letters*, **2011**, 98, 133304	3.4	11
290	Photoconduction and the electronic structure of silica nanowires embedded with gold nanoparticles. *Physical Review B*, **2011**, 84,	3.3	13
289	Polarization-resolved fine-structure splitting of zero-dimensional InxGa1-xN excitons. *Physical Review B*, **2011**, 83,	3.3	23
288	Optical properties of functionalized GaN nanowires. *Journal of Applied Physics*, **2011**, 109, 053523	2.5	17
287	Size-dependent persistent photocurrent and surface band bending in m-axial GaN nanowires. *Physical Review B*, **2011**, 84,	3.3	46
286	Giant room temperature electric-field-assisted magnetoresistance in La0.7Sr0.3MnO3/n-Si nanotip heterojunctions. *Nanotechnology*, **2011**, 22, 125701	3.4	3
285	Photoconduction mechanism of oxygen sensitization in InN nanowires. *Nanotechnology*, **2011**, 22, 425702	3.4	10
284	Energy production and conversion applications of one-dimensional semiconductor nanostructures. *NPG Asia Materials*, **2011**, 3, 74-81	10.3	26
283	A Comparative Study of Optical Anisotropies of BC3 and B3C Systems by Density Functional Theory. *ISRN Nanotechnology*, **2011**, 2011, 1-9		3
282	Low-Frequency Contact Noise of GaN Nanowire Device Detected by Cross-Spectrum Technique. *Japanese Journal of Applied Physics*, **2011**, 50, 06GF21	1.4	2
281	Array of CdSe QD-Sensitized ZnO Nanorods Serves as Photoanode for Water Splitting. *Journal of the Electrochemical Society*, **2010**, 157, B1430	3.9	37
280	The preparation of silver nanoparticle decorated silica nanowires on fused quartz as reusable versatile nanostructured surface-enhanced Raman scattering substrates. *Nanotechnology*, **2010**, 21, 025502	3.4	24
279	m-plane (101 0) InN heteroepitaxied on (100)-LiAlO2 substrate: Growth orientation control and characterization of structural and optical anisotropy. *Journal of Applied Physics*, **2010**, 107, 073502	2.5	10
278	Direct observation of amophization in load rate dependent nanoindentation studies of crystalline Si. *Applied Physics Letters*, **2010**, 96, 253113	3.4	20
277	Effects of cathode buffer layers on the efficiency of bulk-heterojunction solar cells. *Applied Physics Letters*, **2010**, 96, 263506	3.4	52
276	Room-temperature negative photoconductivity in degenerate InN thin films with a supergap excitation. *Physical Review B*, **2010**, 81,	3.3	60
275	Anisotropic surface plasmon excitation in Au/silica nanowire. *Applied Physics Letters*, **2010**, 96, 263106	3.4	4

274	Effect of XeF laser treatment on structure of nanocrystalline diamond films. *Diamond and Related Materials*, **2010**, 19, 445-448	3.5	7
273	Focused Ion Beam Induced Nanojunction and Defect Doping as a Building Block for Nanoscale Electronics in GaN Nanowires. *Journal of Physical Chemistry C*, **2010**, 114, 15260-15265	3.8	5
272	Influence of Solvent on the Dispersion of Single-Walled Carbon Nanotubes in Polymer Matrix and the Photovoltaic Performance. *Journal of Physical Chemistry C*, **2010**, 114, 10932-10936	3.8	15
271	Photoconductivity in single AlN nanowires by subband gap excitation. *Applied Physics Letters*, **2010**, 96, 062104	3.4	43
270	Platinum nanoparticles embedded in pyrolyzed nitrogen-containing cobalt complexes for high methanol-tolerant oxygen reduction activity. *Journal of Materials Chemistry*, **2010**, 20, 7551		20
269	Enhancement of the energy photoconversion efficiency through crystallographic etching of a c-plane GaN thin film. *Journal of Materials Chemistry*, **2010**, 20, 8118		23
268	O2 plasma-activated CuO-ZnO inverse opals as high-performance methanol microreformer. *Journal of Materials Chemistry*, **2010**, 20, 10611		19
267	Growth orientation dependent hardness for epitaxial wurtzite InN films. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 5170-4	1.3	5
266	Correlating defect density with carrier mobility in large-scaled graphene films: Raman spectral signatures for the estimation of defect density. *Nanotechnology*, **2010**, 21, 465705	3.4	71
265	Spectroscopic characterizations of individual single-crystalline GaN nanowires in visible/ultra-violet regime. *Micron*, **2010**, 41, 827-32	2.3	3
264	Near infrared photodetector based on polymer and indium nitride nanorod organic/inorganic hybrids. *Scripta Materialia*, **2010**, 63, 653-656	5.6	30
263	Quantum dot monolayer sensitized ZnO nanowire-array photoelectrodes: true efficiency for water splitting. *Angewandte Chemie - International Edition*, **2010**, 49, 5966-9	16.4	233
262	A complete Raman mapping of phase transitions in Si under indentation. *Journal of Raman Spectroscopy*, **2010**, 41, 334-339	2.3	15
261	Flexible supercapacitor based on polyaniline nanowires/carbon cloth with both high gravimetric and area-normalized capacitance. *Journal of Power Sources*, **2010**, 195, 4418-4422	8.9	275
260	Anti-reflecting and photonic nanostructures. *Materials Science and Engineering Reports*, **2010**, 69, 1-35	30.9	438
259	Direct voltammetric sensing of L-cysteine at pristine GaN nanowires electrode. *Biosensors and Bioelectronics*, **2010**, 26, 1688-91	11.8	52
258	Size-dependent photoconductivity and dark conductivity of m-axial GaN nanowires with small critical diameter. *Applied Physics Letters*, **2009**, 95, 143123	3.4	29
257	High-gain photoconductivity in semiconducting InN nanowires. *Applied Physics Letters*, **2009**, 95, 162112	3.4	50

256	Molecule-modulated photoconductivity and gain-amplified selective gas sensing in polar GaN nanowires. *Applied Physics Letters*, **2009**, 95, 233119	3.4	42
255	Coulomb blockade behavior in an indium nitride nanowire with disordered surface states. *Applied Physics Letters*, **2009**, 95, 092110	3.4	5
254	Pd-catalyzed hydrogen sensing with InN nanobelts. *Journal of Vacuum Science & Technology B*, **2009**, 27, L8		6
253	First principles calculations of the optical properties of CxNy single walled nanotubes. *Nanotechnology*, **2009**, 20, 175701	3.4	39
252	Magnetoresistance fluctuations in a weak disorder indium nitride nanowire. *Journal Physics D: Applied Physics*, **2009**, 42, 185009	3	2
251	Ternary PtRuNi Nanocatalysts Supported on N-Doped Carbon Nanotubes: Deposition Process, Material Characterization, and Electrochemistry. *Journal of the Electrochemical Society*, **2009**, 156, B1249	3.9	28
250	Enhanced Charge Separation by Sieve-Layer Mediation in High-Efficiency Inorganic-Organic Solar Cells. *Advanced Materials*, **2009**, 21, 759-763	24	36
249	The mechanism of the recrystallization process in epitaxial GaN under dynamic stress field: atomistic origin of planar defect formation. *Journal of Raman Spectroscopy*, **2009**, 40, 1881-1884	2.3	7
248	Nanostructured Zinc Oxide Nanorods with Copper Nanoparticles as a Microreformation Catalyst. *Angewandte Chemie*, **2009**, 121, 7722-7726	3.6	10
247	Nanostructured zinc oxide nanorods with copper nanoparticles as a microreformation catalyst. *Angewandte Chemie - International Edition*, **2009**, 48, 7586-90	16.4	63
246	Direct-growth of polyaniline nanowires for enzyme-immobilization and glucose detection. *Electrochemistry Communications*, **2009**, 11, 850-853	5.1	61
245	Characterization of air-exposure/activation cycles of porous Ti□Zr□V getter film using synchrotron radiation photoemission spectroscopy. *Thin Solid Films*, **2009**, 517, 3672-3676	2.2	4
244	Optical and structural properties of Mg-ion implanted GaN nanowires. *Vacuum*, **2009**, 83, 797-800	3.7	10
243	Low methanol-permeable polyaniline/Nafion composite membrane for direct methanol fuel cells. *Journal of Power Sources*, **2009**, 190, 279-284	8.9	85
242	Silver-Nanoparticle-Conjugated Polypeptide Brushes for Surface-Enhanced Raman Scattering. *Journal of Physical Chemistry C*, **2009**, 113, 13498-13504	3.8	15
241	One-Dimensional Group III-Nitrides: Growth, Properties, and Applications in Nanosensing and Nano-Optoelectronics. *Critical Reviews in Solid State and Materials Sciences*, **2009**, 34, 224-279	10.1	51
240	Origin of the anomalous temperature evolution of photoluminescence peak energy in degenerate InN nanocolumns. *Optics Express*, **2009**, 17, 11690-7	3.3	14
239	Spectroscopic ellipsometry analysis of silicon nanotips obtained by electron cyclotron resonance plasma etching. *Applied Optics*, **2009**, 48, 4996-5004	0.2	4

238	Label-free dual sensing of DNA molecules using GaN nanowires. *Analytical Chemistry*, **2009**, 81, 36-42	7.8	79
237	Spectral characterization of bulk and nanostructured aluminum nitride. *Journal of Nanophotonics*, **2009**, 3, 031950	1.1	9
236	Effects of nitrogen-doping on the microstructure, bonding and electrochemical activity of carbon nanotubes. *Diamond and Related Materials*, **2009**, 18, 433-437	3.5	40
235	Functionalized GaN nanowire-based electrode for direct label-free voltammetric detection of DNA hybridization. *Journal of Materials Chemistry*, **2009**, 19, 928		45
234	Efficient hydrogen production using Cu-based catalysts prepared via homogeneous precipitation. *Journal of Materials Chemistry*, **2009**, 19, 9186		16
233	Electroluminescence from ZnO/Si-nanotips light-emitting diodes. *Nano Letters*, **2009**, 9, 1839-43	11.5	79
232	An ab-initio approach to the optical properties of CxNy single wall nanotubes. *Diamond and Related Materials*, **2009**, 18, 1002-1005	3.5	8
231	Electrophoretic deposition of PtRu nanoparticles on carbon nanotubes for methanol oxidation. *Diamond and Related Materials*, **2009**, 18, 557-562	3.5	9
230	Enhancement of electron field emission of nitrogenated carbon nanotubes on chlorination. *Diamond and Related Materials*, **2009**, 18, 457-460	3.5	7
229	Mesoporous active carbon dispersed with ultra-fine platinum nanoparticles and their electrochemical properties. *Diamond and Related Materials*, **2009**, 18, 303-306	3.5	4
228	Surface optical Raman modes in InN nanostructures. *Applied Physics Letters*, **2008**, 93, 233116	3.4	36
227	Controlled platinum nanoparticles uniformly dispersed on nitrogen-doped carbon nanotubes for methanol oxidation. *Diamond and Related Materials*, **2008**, 17, 535-541	3.5	68
226	High-phase-purity zinc-blende InN on r-plane sapphire substrate with controlled nitridation pretreatment. *Applied Physics Letters*, **2008**, 92, 111914	3.4	21
225	Ultrafast Charging-Discharging Capacitive Property of RuO[sub 2] Nanoparticles on Carbon Nanotubes Using Nitrogen Incorporation. *Journal of the Electrochemical Society*, **2008**, 155, K15	3.9	22
224	Mechanism of bright red emission in Si nanoclusters. *Nanotechnology*, **2008**, 19, 395401	3.4	20
223	Electroluminescence enhancement of SiGe/Si multiple quantum wells through nanowall structures. *Nanotechnology*, **2008**, 19, 365705	3.4	2
222	High photocurrent gain in SnO2 nanowires. *Applied Physics Letters*, **2008**, 93, 112115	3.4	94
221	Suppressing series resistance in organic solar cells by oxygen plasma treatment. *Applied Physics Letters*, **2008**, 92, 233302	3.4	16

220	Selective-hydrogen sensing at room temperature with Pt-coated InN nanobelts. *Applied Physics Letters*, **2008**, 93, 202109	3.4	31
219	Recrystallization of epitaxial GaN under indentation. *Applied Physics Letters*, **2008**, 92, 143114	3.4	11
218	Field emission effects of nitrogenated carbon nanotubes on chlorination and oxidation. *Journal of Applied Physics*, **2008**, 104, 063710	2.5	18
217	Thermal diffusivity study in supported epitaxial InN thin films by the traveling-wave technique. *Journal of Applied Physics*, **2008**, 104, 064920	2.5	4
216	Hot Photoluminescence in In2Se3Nanorods. *Nanoscale Research Letters*, **2008**, 3, 427-30	5	9
215	On-chip fabrication of well-aligned and contact-barrier-free GaN nanobridge devices with ultrahigh photocurrent responsivity. *Small*, **2008**, 4, 925-9	11	63
214	Enhanced Emission of (In, Ga) Nitride Nanowires Embedded with Self-Assembled Quantum Dots. *Advanced Functional Materials*, **2008**, 18, 938-942	15.6	16
213	Evaluation of microstructures and mechanical properties of diamond like carbon films deposited by filtered cathodic arc plasma. *Thin Solid Films*, **2008**, 516, 5440-5444	2.2	26
212	RECENT TRENDS IN INDIUM NITRIDE NANOMATERIALS **2008**, 431-462		1
211	Influence of catalyst oxidation on the growth of nitrogen-containing carbon nanotubes for energy generation and storage applications. *Diamond and Related Materials*, **2007**, 16, 1140-1143	3.5	6
210	Structural and optical properties of single crystal Zn1MgxO nanorods Experimental and theoretical studies. *Journal of Applied Physics*, **2007**, 101, 033502	2.5	38
209	Formation of Pt-Ru nanoparticles in ethylene glycol solution: an in situ X-ray absorption spectroscopy study. *Langmuir*, **2007**, 23, 5802-9	4	56
208	Epitaxial growth of InN films by molecular-beam epitaxy using hydrazoic acid (HN3) as an efficient nitrogen source. *Journal of Physical Chemistry A*, **2007**, 111, 6755-9	2.8	14
207	Anomalous Optical Properties of InN Nanobelts: Evidence of Surface Band Bending and Photoelastic Effects. *Advanced Materials*, **2007**, 19, 4524-4529	24	14
206	Control of nucleation site density of GaN nanowires. *Applied Surface Science*, **2007**, 253, 3196-3200	6.7	7
205	A first principles study of the optical properties of BxCy single wall nanotubes. *Carbon*, **2007**, 45, 1482-1491	6.4	39
204	Arrayed CNx NTRuO2 nanocomposites directly grown on Ti-buffered Si substrate for supercapacitor applications. *Electrochemistry Communications*, **2007**, 9, 239-244	5.1	79
203	High performance of low electrocatalysts loading on CNT directly grown on carbon cloth for DMFC. *Journal of Power Sources*, **2007**, 171, 55-62	8.9	119

202	Improved broadband and quasi-omnidirectional anti-reflection properties with biomimetic silicon nanostructures. *Nature Nanotechnology*, **2007**, 2, 770-4	28.7	872
201	Optical properties of nanocrystalline diamond films from mid-infrared to ultraviolet using reflectometry and ellipsometry. *Journal of Materials Science: Materials in Electronics*, **2007**, 18, 37-41	2.1	22
200	Effect of Structural Morphology on Electrochemical Properties of Carbon Nanotubes Directly Grown on Ti Foil. *Electrochemical and Solid-State Letters*, **2007**, 10, K60		1
199	Superior capacitive property of RuO2nanoparticles on carbon nanotubes incorporated with nitrogen. *Nanotechnology*, **2007**, 18, 485716	3.4	19
198	Photoluminescence spectroscopy of nearly defect-free InN microcrystals exhibiting nondegenerate semiconductor behaviors. *Applied Physics Letters*, **2007**, 91, 181912	3.4	27
197	Ultrahigh photocurrent gain in m-axial GaN nanowires. *Applied Physics Letters*, **2007**, 91, 223106	3.4	126
196	Infrared lasing in InN nanobelts. *Applied Physics Letters*, **2007**, 90, 123109	3.4	40
195	A comparative study of the electronic structures of oxygen- and chlorine-treated nitrogenated carbon nanotubes by x-ray absorption and scanning photoelectron microscopy. *Applied Physics Letters*, **2007**, 91, 202102	3.4	12
194	Multiphonon Raman scattering in GaN nanowires. *Applied Physics Letters*, **2007**, 90, 213104	3.4	45
193	Electronic structures and bonding properties of chlorine-treated nitrogenated carbon nanotubes: X-ray absorption and scanning photoelectron microscopy studies. *Applied Physics Letters*, **2007**, 90, 192107	3.4	24
192	Long-range ferromagnetic ordering at room temperature in Co+implanted TiO2nanorods. *Nanotechnology*, **2007**, 18, 325705	3.4	9
191	Influence of oxygen on the elastic properties of nanocrystalline diamond films studied by laser-induced surface acoustic waves. *Ultrasonics*, **2006**, 44 Suppl 1, e1229-32	3.5	3
190	Electrical transport properties of single GaN and InN nanowires. *Journal of Electronic Materials*, **2006**, 35, 738-743	1.9	60
189	Sharp Infrared Emission from Single-Crystalline Indium Nitride Nanobelts Prepared Using Guided-Stream Thermal Chemical Vapor Deposition. *Advanced Functional Materials*, **2006**, 16, 537-541	15.6	59
188	Geometrically tuned and chemically switched wetting properties of silicon nanotips. *Nanotechnology*, **2006**, 17, 2542-5	3.4	10
187	Self-regulating and diameter-selective growth of GaN nanowires. *Nanotechnology*, **2006**, 17, S332-S337	3.4	20
186	Photo-assisted local oxidation of GaN using an atomic force microscope. *Nanotechnology*, **2006**, 17, 3299-3303	3.4	14
185	Superior electrochemical performance of CNx nanotubes using TiSi2 buffer layer on Si substrates. *Journal of Vacuum Science & Technology B*, **2006**, 24, 87		8

184	Morphology control of silicon nanotips fabricated by electron cyclotron resonance plasma etching. *Journal of Vacuum Science & Technology B*, **2006**, 24, 308		17
183	Carbon Nanotubes Grown Directly on Ti Electrodes and Enhancement of Their Electrochemical Properties by Nitric Acid Treatment. *Electrochemical and Solid-State Letters*, **2006**, 9, A5		11
182	Effect of Ozone Cleaning and Annealing on Ti/Pt/Au Ohmic Contacts on GaN Nanowires. *Electrochemical and Solid-State Letters*, **2006**, 9, G155		12
181	Enhanced Electrochemical Properties of Arrayed CN[sub x] Nanotubes Directly Grown on Ti-Buffered Silicon Substrates. *Electrochemical and Solid-State Letters*, **2006**, 9, A175		12
180	Photoconductivity and highly selective ultraviolet sensing features of amorphous silicon carbon nitride thin films. *Applied Physics Letters*, **2006**, 88, 073515	3.4	13
179	Electronic structures of group-III nitride nanorods studied by x-ray absorption, x-ray emission, and Raman spectroscopy. *Applied Physics Letters*, **2006**, 88, 223113	3.4	18
178	Nitrogen ion beam synthesis of InN in InP(100) at elevated temperature. *Applied Physics Letters*, **2006**, 88, 241904	3.4	6
177	Controlled growth of aluminium nitride nanorod arrays via chemical vapour deposition. *Nanotechnology*, **2006**, 17, S321-S326	3.4	27
176	Anomalous blueshift in emission spectra of ZnO nanorods with sizes beyond quantum confinement regime. *Applied Physics Letters*, **2006**, 88, 241905	3.4	150
175	Ferromagnetism in cobalt-doped n-GaN. *Applied Physics Letters*, **2006**, 88, 173110	3.4	21
174	Nanotips: Growth, Model, and Applications. *Critical Reviews in Solid State and Materials Sciences*, **2006**, 31, 15-53	10.1	73
173	Electroluminescence from ZnO nanowire/polymer composite p-n junction. *Applied Physics Letters*, **2006**, 88, 173503	3.4	121
172	Mechanical properties of nanocrystalline diamond films. *Journal of Applied Physics*, **2006**, 99, 124302	2.5	26
171	Self-selected apex angle distribution in aluminum nitride and indium nitride nanotips. *Applied Physics Letters*, **2006**, 89, 143105	3.4	6
170	Atomic-scale deformation in N-doped carbon nanotubes. *Journal of the American Chemical Society*, **2006**, 128, 8368-9	16.4	83
169	Luminescence properties of wurtzite AlN nanotips. *Applied Physics Letters*, **2006**, 89, 163127	3.4	40
168	Photosensitive gold-nanoparticle-embedded dielectric nanowires. *Nature Materials*, **2006**, 5, 102-6	27	245
167	Structural evolution of AlN nano-structures: Nanotips and nanorods. *Chemical Physics Letters*, **2006**, 418, 152-157	2.5	42

166	High methanol oxidation activity of electrocatalysts supported by directly grown nitrogen-containing carbon nanotubes on carbon cloth. *Electrochimica Acta*, **2006**, 52, 1612-1617	6.7	56
165	Multi-wall carbon nanotubes coated with polyaniline. *Polymer*, **2006**, 47, 5715-5723	3.9	267
164	Effect of temperature annealing on capacitive and structural properties of hydrous ruthenium oxides. *Journal of Power Sources*, **2006**, 160, 1506-1510	8.9	36
163	Surface-Enhanced Raman Spectroscopy Using Self-Assembled Silver Nanoparticles on Silicon Nanotips. *Chemistry of Materials*, **2005**, 17, 553-559	9.6	86
162	Optical properties and photoconductivity of amorphous silicon carbon nitride thin film and its application for UV detection. *Diamond and Related Materials*, **2005**, 14, 1010-1013	3.5	47
161	The CH stretching features on diamonds of different origins. *Diamond and Related Materials*, **2005**, 14, 1455-1462	3.5	39
160	Reduced temperature-quenching of photoluminescence from indium nitride nanotips grown by metalorganic chemical vapor deposition. *Applied Physics Letters*, **2005**, 87, 203103	3.4	18
159	Field emission from quasi-aligned aluminum nitride nanotips. *Applied Physics Letters*, **2005**, 87, 073109	3.4	57
158	Molecular sensing with ultrafine silver crystals on hexagonal aluminum nitride nanorod templates. *Journal of the American Chemical Society*, **2005**, 127, 2820-1	16.4	32
157	Direct evidence of nanocluster-induced luminescence in InGaN epifilms. *Applied Physics Letters*, **2005**, 86, 021911	3.4	19
156	Ultrafine Platinum Nanoparticles Uniformly Dispersed on Arrayed CNx Nanotubes with High Electrochemical Activity. *Chemistry of Materials*, **2005**, 17, 3749-3753	9.6	190
155	The affinity of SiN and SiC bonding in amorphous silicon carbon nitride (a-SiCN) thin film. *Diamond and Related Materials*, **2005**, 14, 1126-1130	3.5	83
154	Transport properties of InN nanowires. *Applied Physics Letters*, **2005**, 87, 093112	3.4	60
153	Growth of nanocrystalline diamond films in CCl4/H2 ambient. *Thin Solid Films*, **2005**, 473, 24-30	2.2	3
152	Direct Synthesis of Highly Stable Mesoporous Molecular Sieves Containing Zeolite Building Units. *Advanced Functional Materials*, **2005**, 15, 253-258	15.6	50
151	Growth of Single-Crystalline Wurtzite Aluminum Nitride Nanotips with a Self-Selective Apex Angle. *Advanced Functional Materials*, **2005**, 15, 781-786	15.6	92
150	Synthesis of Polyaniline Nanotubes in the Channels of Anodic Alumina Membrane **2005**, 8-16		
149	Fabrication and Characterization of lateral Field Emission Device Based on Carbon Nanotubes. *Japanese Journal of Applied Physics*, **2005**, 44, 2612-2617	1.4	3

148	Effects of High-Density Oxygen Plasma Posttreatment on Field Emission Properties of Carbon Nanotube Field-Emission Displays. *Japanese Journal of Applied Physics*, **2005**, 44, 8231-8236	1.4	17
147	Improved Field-Emission Properties of Carbon Nanotube Field-Emission Arrays by Controlled Density Growth of Carbon Nanotubes. *Japanese Journal of Applied Physics*, **2005**, 44, 365-370	1.4	4
146	Comparison of the electronic structures of AlN nanotips grown on p- and n-type Si substrates. *Journal of Physics Condensed Matter*, **2005**, 17, 7523-7530	1.8	9
145	Formation andin situdynamics of metallic nanoblisters in Ga+implanted GaN nanowires. *Nanotechnology*, **2005**, 16, 2764-2769	3.4	9
144	Effect of gold coating on local oxidation using an atomic force microscope. *Applied Physics Letters*, **2005**, 86, 161901	3.4	16
143	Response to Comment on Direct evidence of nanocluster-induced luminescence in InGaN epifilms [Appl. Phys. Lett. 87, 136101 (2005)]. *Applied Physics Letters*, **2005**, 87, 136102	3.4	
142	Mechanism of nanoblister formation in Ga+ self-ion implanted GaN nanowires. *Applied Physics Letters*, **2005**, 86, 203119	3.4	20
141	Optical characterization of GaN by N+ implantation into GaAs at elevated temperature. *Applied Physics Letters*, **2005**, 87, 261915	3.4	13
140	5nm ruthenium thin film as a directly plateable copper diffusion barrier. *Applied Physics Letters*, **2005**, 86, 083104	3.4	152
139	GENERALLY APPLICABLE SELF-MASKING TECHNIQUE FOR NANOTIPS ARRAY FABRICATION. *International Journal of Nanoscience*, **2005**, 04, 879-886	0.6	
138	Blueshift of yellow luminescence band in self-ion-implanted n-GaN nanowire. *Applied Physics Letters* , **2004**, 84, 3486-3488	3.4	33
137	Mechanism of enhanced luminescence in InxAlyGa1 N quaternary epilayers. *Applied Physics Letters*, **2004**, 84, 1480-1482	3.4	37
136	Hexagonal-to-cubic phase transformation in GaN nanowires by Ga+ implantation. *Applied Physics Letters*, **2004**, 84, 5473-5475	3.4	31
135	Amorphous boron carbon nitride as a pH sensor. *Applied Physics Letters*, **2004**, 84, 2676-2678	3.4	8
134	Thermally activated electron emission from nano-tips of amorphous diamond and carbon nano-tubes. *Thin Solid Films*, **2004**, 447-448, 187-191	2.2	2
133	Growth and characterization of vertically aligned self-assembled IrO2 nanotubes on oxide substrates. *Journal of Crystal Growth*, **2004**, 271, 105-112	1.6	48
132	Nanohomojunction (GaN) and Nanoheterojunction (InN) Nanorods on One-Dimensional GaN Nanowire Substrates. *Advanced Functional Materials*, **2004**, 14, 233-237	15.6	65
131	Growth mechanism, structure and IR photoluminescence studies of indium nitride nanorods. *Journal of Crystal Growth*, **2004**, 269, 87-94	1.6	84

130	Strong room-temperature UV emission of nanocrystalline ZnO films derived from a polymeric solution. *Chemical Physics Letters*, **2004**, 391, 278-282	2.5	23
129	Spillout effect in gold nanoclusters embedded in c-Al2O3(0001) matrix. *Chemical Physics Letters*, **2004**, 399, 354-358	2.5	14
128	Electronic and bonding structures of B-C-N thin films investigated by x-ray absorption and photoemission spectroscopy. *Journal of Applied Physics*, **2004**, 96, 208-211	2.5	21
127	Blue luminescence of Au nanoclusters embedded in silica matrix. *Journal of Chemical Physics*, **2004**, 121, 12595-9	3.9	22
126	Growth of Well Aligned IrO2 Nanotubes on LiTaO3(012) Substrate. *Chemistry of Materials*, **2004**, 16, 2457-2462	9.6	26
125	Generally Applicable Self-Masked Dry Etching Technique for Nanotip Array Fabrication. *Nano Letters*, **2004**, 4, 471-475	11.5	138
124	Replication of Mesoporous Aluminosilicate Molecular Sieves (RMMs) with Zeolite Framework from Mesoporous Carbons (CMKs). *Chemistry of Materials*, **2004**, 16, 3168-3175	9.6	164
123	Electrical properties of annealed MPCVD grown vertically aligned carbon nanotube films. *Diamond and Related Materials*, **2004**, 13, 2156-2159	3.5	5
122	Structural and electronic properties of wide band gap silicon carbon nitride materials: first-principles study. *Diamond and Related Materials*, **2004**, 13, 1158-1165	3.5	26
121	X-Ray absorption studies of boron–carbon–nitrogen (BxCyNz) ternary alloys. *Diamond and Related Materials*, **2004**, 13, 1553-1557	3.5	18
120	Growth and characterization of gallium nitride nanowires produced on different sol-gel derived catalyst dispersed in titania and polyvinyl alcohol matrix. *Journal of Materials Research*, **2004**, 19, 1768-1774	2.5	6
119	Characterization of Nanodome on GaN Nanowires Formed with Ga Ion Irradiation. *Materials Transactions*, **2004**, 45, 435-439	1.3	3
118	Enhanced field emission from nitrogen-doped amorphous diamond. *Journal of Materials Research*, **2003**, 18, 1594-1599	2.5	7
117	Controlled growth of silicon carbide nanorods by rapid thermal process and their field emission properties. *Chemical Physics Letters*, **2003**, 379, 155-161	2.5	45
116	Thermionic emission of amorphous diamond and field emission of carbon nanotubes. *Carbon*, **2003**, 41, 2839-2845	10.4	26
115	Quasiquenching size effects in gold nanoclusters embedded in silica matrix. *Chemical Physics Letters*, **2003**, 370, 254-260	2.5	29
114	Field Emission Characteristics of Amorphous Diamond. *Journal of the American Ceramic Society*, **2003**, 86, 1513-1517	3.8	2
113	Nano-tip emission of tetrahedral amorphous carbon. *Diamond and Related Materials*, **2003**, 12, 1691-1697	3.5	5

112	Doping and electrical properties of amorphous silicon carbon nitride films. *Diamond and Related Materials*, **2003**, 12, 1213-1219	3.5	3
111	Mechanical properties of amorphous boron carbon nitride films produced by dual gun sputtering. *Diamond and Related Materials*, **2003**, 12, 1463-1471	3.5	24
110	Band-gap dependence of field emission from one-dimensional nanostructures grown on n-type and p-type silicon substrates. *Physical Review B*, **2003**, 68,	3.3	36
109	Study of a Super-Resolution Optical Structure: Polycarbonate/ZnS□SiO2/ZnO/ZnS□SiO2/Ge2Sb2Te5/ZnS□SiO2. *Japanese Journal of Applied Physics*, **2003**, 42, 1029-1030	1.4	27
108	Synthesis and Characterization of Core□Shell GaP@GaN and GaN@GaP Nanowires. *Nano Letters*, **2003**, 3, 537-541	11.5	128
107	SiC-capped nanotip arrays for field emission with ultralow turn-on field. *Applied Physics Letters*, **2003**, 83, 1420-1422	3.4	82
106	Elastic, mechanical, and thermal properties of nanocrystalline diamond films. *Journal of Applied Physics*, **2003**, 93, 2164-2171	2.5	248
105	Group III- and Group IV-Nitride Nanorods and Nanowires **2003**, 257-315		9
104	Self assembled gold and silver nanoparticulates on silicon nanotips as surface enhanced Raman active substrates. *Materials Research Society Symposia Proceedings*, **2003**, 788, 251		
103	Interface energy of Au7Si grown in the interfacial layer of truncated hexagonal dipyramidal Au nanoislands on polycrystalline-silicon. *Applied Physics Letters*, **2003**, 82, 4468-4470	3.4	10
102	Electronic structure of GaN nanowire studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. *Applied Physics Letters*, **2003**, 82, 3949-3951	3.4	33
101	Enhanced dynamic annealing in Ga+ ion-implanted GaN nanowires. *Applied Physics Letters*, **2003**, 82, 451-453	3.4	61
100	Phase and thickness dependence of thermal diffusivity in a-SiCxNy and a-BCxNy. *Thin Solid Films*, **2002**, 420-421, 205-211	2.2	5
99	Growth and Optical Properties of Self-Organized Au2Si Nanospheres Pea-Podded in a Silicon Oxide Nanowire. *Advanced Materials*, **2002**, 14, 1847-1850	24	54
98	Controlling Steps During Early Stages of the Aligned Growth of Carbon Nanotubes Using Microwave Plasma Enhanced Chemical Vapor Deposition. *Advanced Functional Materials*, **2002**, 12, 687-692	15.6	66
97	The analyses on the surface properties of the annealed-diamond membrane. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2002**, 95, 111-115	3.1	1
96	Field emission of nanostructured amorphous SiCN films deposited by reactive magnetron sputtering of SiC in CH4/N2 atmosphere. *Thin Solid Films*, **2002**, 416, 85-91	2.2	21
95	High growth rate deposition of oriented hexagonal InN films. *Thin Solid Films*, **2002**, 405, 194-197	2.2	28

94	Heterostructures of ZnO/Zn coaxial nanocables and ZnO nanotubes. *Applied Physics Letters*, **2002**, 81, 1312-1314	3.4	306
93	Spectroscopic studies of nitrogenated amorphous carbon films prepared by ion beam sputtering. *Journal of Applied Physics*, **2002**, 91, 4944-4955	2.5	40
92	Bonding characterization, density measurement, and thermal diffusivity studies of amorphous silicon carbon nitride and boron carbon nitride thin films. *Journal of Applied Physics*, **2002**, 92, 5150-5158	2.5	16
91	Growth of High-Quality Epitaxial InN Film with High-Speed Reactant Gas by Organometallic Vapor-Phase Epitaxy. *Japanese Journal of Applied Physics*, **2002**, 41, L1321-L1324	1.4	19
90	LOW TEMPERATURE GROWTH OF ALIGNED CARBON NANOTUBES IN LARGE AREA. *International Journal of Modern Physics B*, **2002**, 16, 853-859	1.1	7
89	Improvement of Field Emission Characteristics of Carbon Nanotubes by Excimer Laser Treatment. *Japanese Journal of Applied Physics*, **2002**, 41, 6132-6136	1.4	6
88	Correlation of Electrical, Thermal and Structural Properties of Microcrystalline Silicon Thin Films. *Japanese Journal of Applied Physics*, **2002**, 41, L229-L232	1.4	17
87	Selective-area growth of indium nitride nanowires on gold-patterned Si(100) substrates. *Applied Physics Letters*, **2002**, 81, 22-24	3.4	179
86	Electronic structure of the carbon nanotube tips studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. *Applied Physics Letters*, **2002**, 81, 4189-4191	3.4	52
85	Thermal diffusivity in diamond, SiCxNy and BCxNy. *Diamond and Related Materials*, **2002**, 11, 708-713	3.5	7
84	X-ray absorption studies of carbon-related materials. *Journal of Synchrotron Radiation*, **2001**, 8, 145-9	2.4	10
83	Preparation and characterization of carbon nanotubes encapsulated GaN nanowires. *Journal of Physics and Chemistry of Solids*, **2001**, 62, 1577-1586	3.9	20
82	Electronic structure of the Fe-layer-catalyzed carbon nanotubes studied by x-ray-absorption spectroscopy. *Applied Physics Letters*, **2001**, 79, 3179-3181	3.4	28
81	Field emission properties of two-layer structured SiCN films. *Surface and Coatings Technology*, **2001**, 137, 152-157	4.4	24
80	Electron beam induced formation of carbon nanorods. *Journal of Physics and Chemistry of Solids*, **2001**, 62, 1561-1565	3.9	24
79	Catalyst-free and controllable growth of SiCxNy nanorods. *Journal of Physics and Chemistry of Solids*, **2001**, 62, 1567-1576	3.9	20
78	Laser irradiation of carbon nanotubes. *Materials Chemistry and Physics*, **2001**, 72, 218-222	4.4	35
77	Effect of dilution gas on SiCN films growth using methylamine. *Materials Chemistry and Physics*, **2001**, 72, 240-244	4.4	7

76	Resistive heated MOCVD deposition of InN films. *Materials Chemistry and Physics*, **2001**, 72, 290-295	4.4	15
75	Fabrication and Characterization of Low Turn-On Voltage Carbon Nanotube Field Emission Triodes. *Electrochemical and Solid-State Letters*, **2001**, 4, H15		9
74	Integration of Thin Film Transistor Controlled Carbon Nanotubes for Field Emission Devices. *Electrochemical and Solid-State Letters*, **2001**, 4, H5		13
73	Fabrication and Characterization of Carbon Nanotube Triodes. *Japanese Journal of Applied Physics*, **2001**, 40, 3468-3473	1.4	12
72	Growth of highly transparent nanocrystalline diamond films and a spectroscopic study of the growth. *Journal of Applied Physics*, **2001**, 89, 753-759	2.5	40
71	Electronic and bonding structures of amorphous SiCN thin films by x-ray absorption spectroscopy. *Applied Physics Letters*, **2001**, 79, 2393-2395	3.4	9
70	Catalytic growth and characterization of gallium nitride nanowires. *Journal of the American Chemical Society*, **2001**, 123, 2791-8	16.4	462
69	Bonding characterization and nano-indentation study of the amorphous SiCxNy films with and without hydrogen incorporation. *Diamond and Related Materials*, **2001**, 10, 1916-1920	3.5	15
68	Carbon nanotube growth by rapid thermal processing. *Diamond and Related Materials*, **2001**, 10, 1810-1813	3.5	11
67	Thermal diffusivity in amorphous silicon carbon nitride thin films by the traveling wave technique. *Applied Physics Letters*, **2001**, 79, 332-334	3.4	18
66	Near-field images of the AgOx-type super-resolution near-field structure. *Applied Physics Letters*, **2001**, 78, 685-687	3.4	67
65	Low turn-on voltage field emission triodes with selective growth of carbon nanotubes. *IEEE Electron Device Letters*, **2001**, 22, 516-518	4.4	21
64	Structure and elastic properties of amorphous silicon carbon nitride films. *Physical Review B*, **2001**, 64,	3.3	50
63	Enhancement in field emission of silicon microtips by bias-assisted carburization. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2000**, 18, 2722		15
62	High current density field emission from arrays of carbon nanotubes and diamond-clad Si tips. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2000**, 18, 1207		37
61	Piezoreflectance study of silicon carbon nitride nanorods. *Applied Physics Letters*, **2000**, 76, 2044-2046	3.4	13
60	Field emission from quasi-aligned SiCN nanorods. *Applied Physics Letters*, **2000**, 76, 2630-2632	3.4	76
59	GROWTH, CHARACTERIZATION, AND PROPERTIES OF CARBON NITRIDE WITH AND WITHOUT SILICON ADDITION. *International Journal of Modern Physics B*, **2000**, 14, 333-348	1.1	15

58	Surface-enhanced Raman analysis of diamond films using different metals. *Materials Letters*, **2000**, 42, 162-165	3.3	9
57	Interaction of atomic hydrogen with a Ge(111) surface: low-energy electron diffraction and surface Raman studies. *Surface Science*, **2000**, 445, 139-150	1.8	12
56	Effect of H2 addition on SiCN film growth in an electron cyclotron resonance plasma chemical vapor deposition reactor. *Journal of Materials Chemistry*, **2000**, 10, 783-787		11
55	Comparative studies on field emission properties of carbon-based materials. *Diamond and Related Materials*, **2000**, 9, 1249-1256	3.5	26
54	Growth, characterization, optical and X-ray absorption studies of nano-crystalline diamond films. *Diamond and Related Materials*, **2000**, 9, 877-882	3.5	21
53	Effect of carbon sources on silicon carbon nitride films growth in an electron cyclotron resonance plasma chemical vapor deposition reactor. *Diamond and Related Materials*, **2000**, 9, 556-561	3.5	14
52	Piezoreflectance study of an Fe-containing silicon carbon nitride crystalline film. *Journal of Applied Physics*, **2000**, 87, 280-284	2.5	7
51	Mechanism of luminescence in InGaN/GaN multiple quantum wells. *Applied Physics Letters*, **2000**, 76, 3712-3714	3.4	68
50	X-ray absorption of SiCN thin films: A comparison between crystalline and amorphous phases. *Journal of Applied Physics*, **1999**, 86, 5609-5613	2.5	23
49	High purity nano-crystalline carbon nitride films prepared at ambient temperature by ion beam sputtering. *Surface and Coatings Technology*, **1999**, 115, 116-122	4.4	14
48	Characterization of lead zirconate titanate thin film deposition onto Pt/Ti/SiO2/Si substrates. *Journal of Materials Science: Materials in Electronics*, **1999**, 10, 551-556	2.1	7
47	Deposition of silicon carbon nitride films by ion beam sputtering. *Thin Solid Films*, **1999**, 355-356, 417-422	2.2	36
46	Wide band gap silicon carbon nitride films deposited by electron cyclotron resonance plasma chemical vapor deposition. *Thin Solid Films*, **1999**, 355-356, 205-209	2.2	61
45	Crystalline SiCN: a hard material rivals to cubic BN. *Thin Solid Films*, **1999**, 355-356, 112-116	2.2	75
44	Quantum Confinement Effect in Diamond Nanocrystals Studied by X-Ray-Absorption Spectroscopy. *Physical Review Letters*, **1999**, 82, 5377-5380	7.4	103
43	Nano-carbon nitride synthesis from a bio-molecular target for ion beam sputtering at low temperature. *Diamond and Related Materials*, **1999**, 8, 605-609	3.5	20
42	Ellipsometric study of carbon nitride thin films with and without silicon addition. *Diamond and Related Materials*, **1999**, 8, 618-622	3.5	15
41	Effect of target materials on crystalline carbon nitride film preparation by ion beam sputtering. *Diamond and Related Materials*, **1999**, 8, 1724-1729	3.5	1

40	Raman Spectroscopic Studies of the Thermal Decomposition of Molybdenum Oxide/2,2?-Bipyridine Compounds. *Applied Spectroscopy*, **1999**, 53, 1083-1086	3.1	3
39	Methylamine Growth of SiCN Films Using ECR-CVD. *Materials Research Society Symposia Proceedings* , **1999**, 606, 115		1
38	Highly transparent nano-crystalline diamond films via substrate pretreatment and methane fraction optimization. *Thin Solid Films*, **1998**, 332, 34-39	2.2	24
37	Sputtering process of carbon nitride films by using a novel bio-molecular C□N containing target. *Thin Solid Films*, **1998**, 332, 74-79	2.2	14
36	Highly transparent nano-crystalline diamond films grown by microwave CVD. *Solid State Communications*, **1998**, 107, 301-305	1.6	12
35	Electronic and atomic structures of SiC□N thin film by X-ray-absorption spectroscopy. *Journal of Electron Spectroscopy and Related Phenomena*, **1998**, 92, 115-118	1.7	3
34	Novel two stage method for growth of highly transparent nano-crystalline diamond films. *Materials Letters*, **1998**, 36, 279-283	3.3	24
33	Crystalline silicon carbon nitride: A wide band gap semiconductor. *Applied Physics Letters*, **1998**, 72, 2463-2465	3.4	145
32	Synthesis and characterization of an organic□inorganic hybrid compound: [WO3 (2,2?-bipy)] (2,2?-bipy=2,2?-bipyridine). *Journal of Materials Chemistry*, **1998**, 8, 2181-2184		5
31	Effects of substrate pretreatment and methane fraction on the optical transparency of nanocrystalline diamond thin films. *Journal of Materials Research*, **1998**, 13, 1769-1773	2.5	21
30	The use of a biomolecular target for crystalline carbon nitride film deposition by Ar ion-beam sputtering without any other source of nitrogen. *Applied Physics Letters*, **1998**, 72, 3449-3451	3.4	28
29	Electronic and atomic structures of the Si-C-N thin film by x-ray-absorption spectroscopy and theoretical calculations. *Physical Review B*, **1998**, 58, 9018-9024	3.3	30
28	Composition of SiCN crystals consisting of a predominantly carbon-nitride network. *Journal of Materials Research*, **1997**, 12, 322-325	2.5	69
27	Growth of Ternary Silicon Carbon Nitride as a New Wide Band Gap Material. *Materials Research Society Symposia Proceedings*, **1997**, 468, 31		3
26	Growth of Highly Transparent Nano-Crystalline Diamond Films by Microwave CVD. *Materials Research Society Symposia Proceedings*, **1997**, 495, 131		
25	Raman spectroscopic studies of the thermal decomposition mechanism of ammonium metavanadate. *Journal of Materials Chemistry*, **1997**, 7, 2273-2277		37
24	Temperature dependence of the direct band gap of Si-containing carbon nitride crystalline films. *Physical Review B*, **1997**, 56, 6498-6501	3.3	33
23	Traveling wave method for measurement of thermal conductivity of thin films. *Review of Scientific Instruments*, **1997**, 68, 4180-4183	1.7	26

22	Raman spectroscopic studies on the sulfation of cerium oxide. *Applied Catalysis B: Environmental*, **1997**, 12, 309-324	21.8	64
21	Si-containing crystalline carbon nitride derived from microwave plasma-enhanced chemical vapor deposition. *Thin Solid Films*, **1997**, 303, 66-75	2.2	65
20	Formation of crystalline silicon carbon nitride films by microwave plasma-enhanced chemical vapor deposition. *Diamond and Related Materials*, **1996**, 5, 514-518	3.5	100
19	GaN Growth by Nitrogen ECR-CVD Method. *Materials Research Society Symposia Proceedings*, **1996**, 423, 377		
18	The vibrational dephasing and relaxation of CH and CD stretches on diamond surfaces: An anomaly. *Journal of Chemical Physics*, **1996**, 105, 3975-3983	3.9	45
17	High-temperature Raman study in CVD diamond. *Thin Solid Films*, **1995**, 270, 143-147	2.2	27
16	Infrared spectroscopy and vibrational relaxation of CHx and CDx stretches on synthetic diamond nanocrystal surfaces. *The Journal of Physical Chemistry*, **1995**, 99, 11081-11088		57
15	Micro-Raman for diamond film stress analysis. *Diamond and Related Materials*, **1995**, 4, 460-463	3.5	68
14	On the Optimized Nucleation of Near-Single-Crystal CVD Diamond Film. *Materials Research Society Symposia Proceedings*, **1995**, 416, 81		2
13	Coherent anti-Stokes Raman spectroscopy of infrared multiphoton excited molecules. *Journal of Chemical Physics*, **1994**, 101, 8517-8528	3.9	
12	Preparation and analysis of the negative resistance characteristic in an amorphous silicon and silicon□arbide single-barrier device. *Applied Physics Letters*, **1994**, 65, 2815-2817	3.4	2
11	Temperature and concentration distribution of H2 and H atoms in hot-filament chemical-vapor deposition of diamond. *Journal of Applied Physics*, **1992**, 71, 1485-1493	2.5	94
10	Direct evidence for □-mode excitation in the infrared multiphoton excitation of SO2. *Chemical Physics Letters*, **1991**, 176, 355-360	2.5	1
9	Multiplex pure rotational coherent anti-stokes Raman spectroscopy in a molecular beam. *Journal of Raman Spectroscopy*, **1990**, 21, 819-825	2.3	8
8	Multiplex coherent anti-Stokes Raman spectroscopy study of infrared-multiphoton-excited OCS. *Journal of Chemical Physics*, **1989**, 91, 1462-1468	3.9	7
7	Chen, Wang, and Mazur reply. *Physical Review Letters*, **1989**, 63, 1534	7.4	
6	Multiplex CARS Study of Infrared-Multiphoton-Excited OCS **1989**, 439-441		
5	Raman spectroscopy of infrared multiphoton excited molecules. *Laser Chemistry*, **1988**, 8, 97-122		2

4	Nonthermal intramolecular vibrational energy distribution in infrared-multiphoton-excited CF2Cl. *Physical Review Letters*, **1987**, 59, 2728-2731	7.4	11
3	Highly Nonthermal Intramolecular Energy Distribution in Isolated Infrared Multiphoton Excited CF2Cl2 Molecules. *Springer Series in Optical Sciences*, **1987**, 236-238	0.5	
2	Time-resolved spontaneous Raman spectroscopy of infrared-multiphoton-excited SF6. *Physical Review A*, **1986**, 34, 3892-3901	2.6	12
1	Carbon Nanotube-Supported Catalysts for the Direct Methanol Fuel Cell315-354		1