

K-H Chen

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19,035
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117
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515
ext. papers

20,854
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
507	Improved broadband and quasi-omnidirectional anti-reflection properties with biomimetic silicon nanostructures. <i>Nature Nanotechnology</i> , 2007 , 2, 770-4	28.7	872
506	Tunable photoluminescence from graphene oxide. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6662-6	16.4	520
505	Catalytic growth and characterization of gallium nitride nanowires. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2791-8	16.4	462
504	Anti-reflecting and photonic nanostructures. <i>Materials Science and Engineering Reports</i> , 2010 , 69, 1-35	30.9	438
503	Conducting polymer-based flexible supercapacitor. <i>Energy Science and Engineering</i> , 2015 , 3, 2-26	3.4	377
502	Graphene oxide as a promising photocatalyst for CO ₂ to methanol conversion. <i>Nanoscale</i> , 2013 , 5, 262-87.7		346
501	Heterostructures of ZnO/Zn coaxial nanocables and ZnO nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 1312-1314	3.4	306
500	Flexible supercapacitor based on polyaniline nanowires/carbon cloth with both high gravimetric and area-normalized capacitance. <i>Journal of Power Sources</i> , 2010 , 195, 4418-4422	8.9	275
499	Multi-wall carbon nanotubes coated with polyaniline. <i>Polymer</i> , 2006 , 47, 5715-5723	3.9	267
498	Highly efficient visible light photocatalytic reduction of CO ₂ to hydrocarbon fuels by Cu-nanoparticle decorated graphene oxide. <i>Nano Letters</i> , 2014 , 14, 6097-103	11.5	254
497	Elastic, mechanical, and thermal properties of nanocrystalline diamond films. <i>Journal of Applied Physics</i> , 2003 , 93, 2164-2171	2.5	248
496	Photosensitive gold-nanoparticle-embedded dielectric nanowires. <i>Nature Materials</i> , 2006 , 5, 102-6	27	245
495	Quantum dot monolayer sensitized ZnO nanowire-array photoelectrodes: true efficiency for water splitting. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5966-9	16.4	233
494	Effect of chemical doping of boron and nitrogen on the electronic, optical, and electrochemical properties of carbon nanotubes. <i>Progress in Materials Science</i> , 2013 , 58, 565-635	42.2	227
493	Band gap engineering of chemical vapor deposited graphene by in situ BN doping. <i>ACS Nano</i> , 2013 , 7, 1333-41	16.7	222
492	Carbon-doped SnS nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018 , 9, 169	17.4	219
491	Highly flexible supercapacitors with manganese oxide nanosheet/carbon cloth electrode. <i>Electrochimica Acta</i> , 2011 , 56, 7124-7130	6.7	198

490	Ultrafine Platinum Nanoparticles Uniformly Dispersed on Arrayed CNx Nanotubes with High Electrochemical Activity. <i>Chemistry of Materials</i> , 2005 , 17, 3749-3753	9.6	190
489	Selective-area growth of indium nitride nanowires on gold-patterned Si(100) substrates. <i>Applied Physics Letters</i> , 2002 , 81, 22-24	3.4	179
488	Reversible phase transformation of MnO ₂ nanosheets in an electrochemical capacitor investigated by in situ Raman spectroscopy. <i>Chemical Communications</i> , 2011 , 47, 1252-4	5.8	173
487	Top laminated graphene electrode in a semitransparent polymer solar cell by simultaneous thermal annealing/releasing method. <i>ACS Nano</i> , 2011 , 5, 6564-70	16.7	172
486	Replication of Mesoporous Aluminosilicate Molecular Sieves (RMMs) with Zeolite Framework from Mesoporous Carbons (CMKs). <i>Chemistry of Materials</i> , 2004 , 16, 3168-3175	9.6	164
485	5nm ruthenium thin film as a directly plateable copper diffusion barrier. <i>Applied Physics Letters</i> , 2005 , 86, 083104	3.4	152
484	Anomalous blueshift in emission spectra of ZnO nanorods with sizes beyond quantum confinement regime. <i>Applied Physics Letters</i> , 2006 , 88, 241905	3.4	150
483	Crystalline silicon carbon nitride: A wide band gap semiconductor. <i>Applied Physics Letters</i> , 1998 , 72, 2463-2465	3.4	145
482	Generally Applicable Self-Masked Dry Etching Technique for Nanotip Array Fabrication. <i>Nano Letters</i> , 2004 , 4, 471-475	11.5	138
481	Synthesis and Characterization of CoreShell GaP@GaN and GaN@GaP Nanowires. <i>Nano Letters</i> , 2003 , 3, 537-541	11.5	128
480	Ultrahigh photocurrent gain in m-axial GaN nanowires. <i>Applied Physics Letters</i> , 2007 , 91, 223106	3.4	126
479	Novel iron oxyhydroxide lepidocrocite nanosheet as ultrahigh power density anode material for asymmetric supercapacitors. <i>Small</i> , 2014 , 10, 3803-10	11	125
478	Electroluminescence from ZnO nanowire/polymer composite p-n junction. <i>Applied Physics Letters</i> , 2006 , 88, 173503	3.4	121
477	High performance of low electrocatalysts loading on CNT directly grown on carbon cloth for DMFC. <i>Journal of Power Sources</i> , 2007 , 171, 55-62	8.9	119
476	Ultrasensitive in situ label-free DNA detection using a GaN nanowire-based extended-gate field-effect-transistor sensor. <i>Analytical Chemistry</i> , 2011 , 83, 1938-43	7.8	118
475	High-cell-voltage supercapacitor of carbon nanotube/carbon cloth operating in neutral aqueous solution. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3383		112
474	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. <i>Nanoscale</i> , 2012 , 4, 6515-9	7.7	106
473	Vitalizing fuel cells with vitamins: pyrolyzed vitamin B12 as a non-precious catalyst for enhanced oxygen reduction reaction of polymer electrolyte fuel cells. <i>Energy and Environmental Science</i> , 2012 , 5, 5305-5314	35.4	104

472	Quantum Confinement Effect in Diamond Nanocrystals Studied by X-Ray-Absorption Spectroscopy. <i>Physical Review Letters</i> , 1999 , 82, 5377-5380	7.4	103
471	Formation of crystalline silicon carbon nitride films by microwave plasma-enhanced chemical vapor deposition. <i>Diamond and Related Materials</i> , 1996 , 5, 514-518	3.5	100
470	Binder-free rice husk-based silicon-graphene composite as energy efficient Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13437-13441	13	97
469	Plasmonic Ag@Ag ₃ (PO ₄) ₂ nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 8917	35.4	97
468	High photocurrent gain in SnO ₂ nanowires. <i>Applied Physics Letters</i> , 2008 , 93, 112115	3.4	94
467	Temperature and concentration distribution of H ₂ and H atoms in hot-filament chemical-vapor deposition of diamond. <i>Journal of Applied Physics</i> , 1992 , 71, 1485-1493	2.5	94
466	Pyrolyzed Cobalt Corrole as a Potential Non-Precious Catalyst for Fuel Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 3500-3508	15.6	93
465	Growth of Single-Crystalline Wurtzite Aluminum Nitride Nanotips with a Self-Selective Apex Angle. <i>Advanced Functional Materials</i> , 2005 , 15, 781-786	15.6	92
464	Improved Solar-Driven Photocatalytic Activity of Hybrid Graphene Quantum Dots/ZnO Nanowires: A Direct Z-Scheme Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 367-375	8.3	88
463	Surface-Enhanced Raman Spectroscopy Using Self-Assembled Silver Nanoparticles on Silicon Nanotips. <i>Chemistry of Materials</i> , 2005 , 17, 553-559	9.6	86
462	Integration of a (-Cu-S-) plane in a metal-organic framework affords high electrical conductivity. <i>Nature Communications</i> , 2019 , 10, 1721	17.4	85
461	Low methanol-permeable polyaniline/Nafion composite membrane for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2009 , 190, 279-284	8.9	85
460	Growth mechanism, structure and IR photoluminescence studies of indium nitride nanorods. <i>Journal of Crystal Growth</i> , 2004 , 269, 87-94	1.6	84
459	Multi-porous Co ₃ O ₄ nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12569-12577	17.2	83
458	The affinity of Si ₃ N ₄ and SiC bonding in amorphous silicon carbon nitride (a-SiCN) thin film. <i>Diamond and Related Materials</i> , 2005 , 14, 1126-1130	3.5	83
457	Atomic-scale deformation in N-doped carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8368-9	16.4	83
456	SiC-capped nanotip arrays for field emission with ultralow turn-on field. <i>Applied Physics Letters</i> , 2003 , 83, 1420-1422	3.4	82
455	Photocatalytic CdSe QDs-decorated ZnO nanotubes: an effective photoelectrode for splitting water. <i>Chemical Communications</i> , 2011 , 47, 3493-5	5.8	81

454	Ni-Nanocluster Modified Black TiO with Dual Active Sites for Selective Photocatalytic CO Reduction. <i>Small</i> , 2018 , 14, 1702928	11	80
453	Label-free dual sensing of DNA molecules using GaN nanowires. <i>Analytical Chemistry</i> , 2009 , 81, 36-42	7.8	79
452	Electroluminescence from ZnO/Si-nanotips light-emitting diodes. <i>Nano Letters</i> , 2009 , 9, 1839-43	11.5	79
451	Arrayed CNx NT@TiO ₂ nanocomposites directly grown on Ti-buffered Si substrate for supercapacitor applications. <i>Electrochemistry Communications</i> , 2007 , 9, 239-244	5.1	79
450	Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical activity in response to visible light. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2733-2739		78
449	Beaded stream-like CoSe ₂ nanoneedle array for efficient hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4553-4561	13	76
448	A New Approach to Solar Hydrogen Production: a ZnO/ZnS Solid Solution Nanowire Array Photoanode. <i>Advanced Energy Materials</i> , 2011 , 1, 742-747	21.8	76
447	Field emission from quasi-aligned SiCN nanorods. <i>Applied Physics Letters</i> , 2000 , 76, 2630-2632	3.4	76
446	Crystalline SiCN: a hard material rivals to cubic BN. <i>Thin Solid Films</i> , 1999 , 355-356, 112-116	2.2	75
445	Nanotips: Growth, Model, and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2006 , 31, 15-53	10.1	73
444	Design for approaching Cicada-wing reflectance in low- and high-index biomimetic nanostructures. <i>ACS Nano</i> , 2015 , 9, 301-11	16.7	71
443	Correlating defect density with carrier mobility in large-scaled graphene films: Raman spectral signatures for the estimation of defect density. <i>Nanotechnology</i> , 2010 , 21, 465705	3.4	71
442	Composition of SiCN crystals consisting of a predominantly carbon-nitride network. <i>Journal of Materials Research</i> , 1997 , 12, 322-325	2.5	69
441	Controlled platinum nanoparticles uniformly dispersed on nitrogen-doped carbon nanotubes for methanol oxidation. <i>Diamond and Related Materials</i> , 2008 , 17, 535-541	3.5	68
440	Mechanism of luminescence in InGaN/GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2000 , 76, 3712-3714	3.4	68
439	Micro-Raman for diamond film stress analysis. <i>Diamond and Related Materials</i> , 1995 , 4, 460-463	3.5	68
438	Near-field images of the AgOx-type super-resolution near-field structure. <i>Applied Physics Letters</i> , 2001 , 78, 685-687	3.4	67
437	Controlling Steps During Early Stages of the Aligned Growth of Carbon Nanotubes Using Microwave Plasma Enhanced Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2002 , 12, 687-692	15.6	66

436	Si-containing crystalline carbon nitride derived from microwave plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 1997 , 303, 66-75	2.2	65
435	Nanohomojunction (GaN) and Nanoheterojunction (InN) Nanorods on One-Dimensional GaN Nanowire Substrates. <i>Advanced Functional Materials</i> , 2004 , 14, 233-237	15.6	65
434	Raman spectroscopic studies on the sulfation of cerium oxide. <i>Applied Catalysis B: Environmental</i> , 1997 , 12, 309-324	21.8	64
433	Nanostructured zinc oxide nanorods with copper nanoparticles as a microreformation catalyst. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7586-90	16.4	63
432	On-chip fabrication of well-aligned and contact-barrier-free GaN nanobridge devices with ultrahigh photocurrent responsivity. <i>Small</i> , 2008 , 4, 925-9	11	63
431	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21971-21980	3.8	61
430	Direct-growth of polyaniline nanowires for enzyme-immobilization and glucose detection. <i>Electrochemistry Communications</i> , 2009 , 11, 850-853	5.1	61
429	Enhanced dynamic annealing in Ga ⁺ ion-implanted GaN nanowires. <i>Applied Physics Letters</i> , 2003 , 82, 451-453	3.4	61
428	Wide band gap silicon carbon nitride films deposited by electron cyclotron resonance plasma chemical vapor deposition. <i>Thin Solid Films</i> , 1999 , 355-356, 205-209	2.2	61
427	Room-temperature negative photoconductivity in degenerate InN thin films with a supergap excitation. <i>Physical Review B</i> , 2010 , 81,	3.3	60
426	Electrical transport properties of single GaN and InN nanowires. <i>Journal of Electronic Materials</i> , 2006 , 35, 738-743	1.9	60
425	Transport properties of InN nanowires. <i>Applied Physics Letters</i> , 2005 , 87, 093112	3.4	60
424	Sharp Infrared Emission from Single-Crystalline Indium Nitride Nanobelts Prepared Using Guided-Stream Thermal Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2006 , 16, 537-541	15.6	59
423	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. <i>Carbon</i> , 2015 , 82, 124-134	10.4	58
422	Stand-up structure of graphene-like carbon nanowalls on CNT directly grown on polyacrylonitrile-based carbon fiber paper as supercapacitor. <i>Diamond and Related Materials</i> , 2012 , 25, 176-179	3.5	57
421	Field emission from quasi-aligned aluminum nitride nanotips. <i>Applied Physics Letters</i> , 2005 , 87, 073109	3.4	57
420	Infrared spectroscopy and vibrational relaxation of CH _x and CD _x stretches on synthetic diamond nanocrystal surfaces. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11081-11088		57
419	Direct-growth of poly(3,4-ethylenedioxythiophene) nanowires/carbon cloth as hierarchical supercapacitor electrode in neutral aqueous solution. <i>Journal of Power Sources</i> , 2013 , 242, 718-724	8.9	56

418	Formation of Pt-Ru nanoparticles in ethylene glycol solution: an in situ X-ray absorption spectroscopy study. <i>Langmuir</i> , 2007 , 23, 5802-9	4	56
417	High methanol oxidation activity of electrocatalysts supported by directly grown nitrogen-containing carbon nanotubes on carbon cloth. <i>Electrochimica Acta</i> , 2006 , 52, 1612-1617	6.7	56
416	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu ₂ ZnSnS ₄ solar cells. <i>Nano Energy</i> , 2015 , 16, 438-445	17.1	55
415	A novel membrane reactor for separating hydrogen and oxygen in photocatalytic water splitting. <i>Journal of Membrane Science</i> , 2011 , 382, 291-299	9.6	55
414	Growth and Optical Properties of Self-Organized Au ₂ Si Nanospheres Pea-Podded in a Silicon Oxide Nanowire. <i>Advanced Materials</i> , 2002 , 14, 1847-1850	24	54
413	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metal-Organic-Framework-Derived CuPd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10349-10362	8.3	52
412	Effects of cathode buffer layers on the efficiency of bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2010 , 96, 263506	3.4	52
411	Direct voltammetric sensing of L-cysteine at pristine GaN nanowires electrode. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1688-91	11.8	52
410	Electronic structure of the carbon nanotube tips studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , 2002 , 81, 4189-4191	3.4	52
409	One-Dimensional Group III-Nitrides: Growth, Properties, and Applications in Nanosensing and Nano-Optoelectronics. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2009 , 34, 224-279	10.1	51
408	High-gain photoconductivity in semiconducting InN nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 162112	3.4	50
407	Direct Synthesis of Highly Stable Mesoporous Molecular Sieves Containing Zeolite Building Units. <i>Advanced Functional Materials</i> , 2005 , 15, 253-258	15.6	50
406	Structure and elastic properties of amorphous silicon carbon nitride films. <i>Physical Review B</i> , 2001 , 64,	3.3	50
405	Thermoelectric Properties of Indium and Gallium Dually Doped ZnO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33916-33923	9.5	49
404	Growth and characterization of vertically aligned self-assembled IrO ₂ nanotubes on oxide substrates. <i>Journal of Crystal Growth</i> , 2004 , 271, 105-112	1.6	48
403	Transparent, broadband, flexible, and bifacial-operable photodetectors containing a large-area graphene-gold oxide heterojunction. <i>ACS Nano</i> , 2015 , 9, 5093-103	16.7	47
402	A nontoxic solvent based sol-gel Cu ₂ ZnSnS ₄ thin film for high efficiency and scalable low-cost photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15324-15330	13	47
401	Optical properties and photoconductivity of amorphous silicon carbon nitride thin film and its application for UV detection. <i>Diamond and Related Materials</i> , 2005 , 14, 1010-1013	3.5	47

400	Size-dependent persistent photocurrent and surface band bending in m-axial GaN nanowires. <i>Physical Review B</i> , 2011 , 84,	3.3	46
399	Functionalized GaN nanowire-based electrode for direct label-free voltammetric detection of DNA hybridization. <i>Journal of Materials Chemistry</i> , 2009 , 19, 928		45
398	Multiphonon Raman scattering in GaN nanowires. <i>Applied Physics Letters</i> , 2007 , 90, 213104	3.4	45
397	Controlled growth of silicon carbide nanorods by rapid thermal process and their field emission properties. <i>Chemical Physics Letters</i> , 2003 , 379, 155-161	2.5	45
396	The vibrational dephasing and relaxation of CH and CD stretches on diamond surfaces: An anomaly. <i>Journal of Chemical Physics</i> , 1996 , 105, 3975-3983	3.9	45
395	Microwave-activated CuO nanotip/ZnO nanorod nanoarchitectures for efficient hydrogen production. <i>Journal of Materials Chemistry</i> , 2011 , 21, 324-326		44
394	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. <i>Carbon</i> , 2013 , 63, 397-403	10.4	43
393	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16251-16258	3.8	43
392	Photoconductivity in single AlN nanowires by subband gap excitation. <i>Applied Physics Letters</i> , 2010 , 96, 062104	3.4	43
391	Imaging layer number and stacking order through formulating Raman fingerprints obtained from hexagonal single crystals of few layer graphene. <i>Nanotechnology</i> , 2013 , 24, 015702	3.4	42
390	Molecule-modulated photoconductivity and gain-amplified selective gas sensing in polar GaN nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 233119	3.4	42
389	Structural evolution of AlN nano-structures: Nanotips and nanorods. <i>Chemical Physics Letters</i> , 2006 , 418, 152-157	2.5	42
388	Directly-Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. <i>ChemSusChem</i> , 2016 , 9, 370-8	8.3	40
387	Effects of nitrogen-doping on the microstructure, bonding and electrochemical activity of carbon nanotubes. <i>Diamond and Related Materials</i> , 2009 , 18, 433-437	3.5	40
386	Infrared lasing in InN nanobelts. <i>Applied Physics Letters</i> , 2007 , 90, 123109	3.4	40
385	Luminescence properties of wurtzite AlN nanotips. <i>Applied Physics Letters</i> , 2006 , 89, 163127	3.4	40
384	Growth of highly transparent nanocrystalline diamond films and a spectroscopic study of the growth. <i>Journal of Applied Physics</i> , 2001 , 89, 753-759	2.5	40
383	Spectroscopic studies of nitrogenated amorphous carbon films prepared by ion beam sputtering. <i>Journal of Applied Physics</i> , 2002 , 91, 4944-4955	2.5	40

382	Thickness-Dependent Binding Energy Shift in Few-Layer MoS ₂ Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22637-46	9.5	40
381	First principles calculations of the optical properties of C _x N _y single walled nanotubes. <i>Nanotechnology</i> , 2009 , 20, 175701	3.4	39
380	A first principles study of the optical properties of B _x C _y single wall nanotubes. <i>Carbon</i> , 2007 , 45, 1482-1491	3.4	39
379	The CH stretching features on diamonds of different origins. <i>Diamond and Related Materials</i> , 2005 , 14, 1455-1462	3.5	39
378	Structural and optical properties of single crystal Zn _{1-x} Mg _x O nanorods: Experimental and theoretical studies. <i>Journal of Applied Physics</i> , 2007 , 101, 033502	2.5	38
377	KSCN-induced Interfacial Dipole in Black TiO ₂ for Enhanced Photocatalytic CO Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25186-25194	9.5	37
376	Array of CdSe QD-Sensitized ZnO Nanorods Serves as Photoanode for Water Splitting. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1430	3.9	37
375	Raman spectroscopic studies of the thermal decomposition mechanism of ammonium metavanadate. <i>Journal of Materials Chemistry</i> , 1997 , 7, 2273-2277		37
374	Mechanism of enhanced luminescence in In _x Al _y Ga _{1-x-y} N quaternary epilayers. <i>Applied Physics Letters</i> , 2004 , 84, 1480-1482	3.4	37
373	High current density field emission from arrays of carbon nanotubes and diamond-clad Si tips. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 1207		37
372	Enhanced Charge Separation by Sieve-Layer Mediation in High-Efficiency Inorganic-Organic Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 759-763	24	36
371	Surface optical Raman modes in InN nanostructures. <i>Applied Physics Letters</i> , 2008 , 93, 233116	3.4	36
370	Effect of temperature annealing on capacitive and structural properties of hydrous ruthenium oxides. <i>Journal of Power Sources</i> , 2006 , 160, 1506-1510	8.9	36
369	Band-gap dependence of field emission from one-dimensional nanostructures grown on n-type and p-type silicon substrates. <i>Physical Review B</i> , 2003 , 68,	3.3	36
368	Deposition of silicon carbon nitride films by ion beam sputtering. <i>Thin Solid Films</i> , 1999 , 355-356, 417-422.	2.2	36
367	Fast growth of large-grain and continuous MoS ₂ films through a self-capping vapor-liquid-solid method. <i>Nature Communications</i> , 2020 , 11, 3682	17.4	36
366	Enhanced thermoelectric performance of GeTe through in situ microdomain and Ge-vacancy control. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15181-15189	13	35
365	Laser irradiation of carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2001 , 72, 218-222	4.4	35

364	Polybenzimidazoles containing bulky substituents and ether linkages for high-temperature proton exchange membrane fuel cell applications. <i>Journal of Membrane Science</i> , 2016 , 513, 270-279	9.6	34
363	Label free sub-picomole level DNA detection with Ag nanoparticle decorated Au nanotip arrays as surface enhanced Raman spectroscopy platform. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2413-8	11.8	33
362	Temperature dependence of the direct band gap of Si-containing carbon nitride crystalline films. <i>Physical Review B</i> , 1997 , 56, 6498-6501	3.3	33
361	Blueshift of yellow luminescence band in self-ion-implanted n-GaN nanowire. <i>Applied Physics Letters</i> , 2004 , 84, 3486-3488	3.4	33
360	Electronic structure of GaN nanowire studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , 2003 , 82, 3949-3951	3.4	33
359	A mechanistic study of molecular CO ₂ interaction and adsorption on carbon implanted SnS ₂ thin film for photocatalytic CO ₂ reduction activity. <i>Nano Energy</i> , 2020 , 72, 104717	17.1	32
358	Molecular sensing with ultrafine silver crystals on hexagonal aluminum nitride nanorod templates. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2820-1	16.4	32
357	Selective-hydrogen sensing at room temperature with Pt-coated InN nanobelts. <i>Applied Physics Letters</i> , 2008 , 93, 202109	3.4	31
356	Hexagonal-to-cubic phase transformation in GaN nanowires by Ga ⁺ implantation. <i>Applied Physics Letters</i> , 2004 , 84, 5473-5475	3.4	31
355	Probing the active site in single-atom oxygen reduction catalysts via operando X-ray and electrochemical spectroscopy. <i>Nature Communications</i> , 2020 , 11, 4233	17.4	31
354	Flexible sensor for dopamine detection fabricated by the direct growth of Fe ₂ O ₃ nanoparticles on carbon cloth. <i>Applied Surface Science</i> , 2018 , 427, 387-395	6.7	30
353	Effect of copper oxide oxidation state on the polymer-based solar cell buffer layers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22445-50	9.5	30
352	Near infrared photodetector based on polymer and indium nitride nanorod organic/inorganic hybrids. <i>Scripta Materialia</i> , 2010 , 63, 653-656	5.6	30
351	Electronic and atomic structures of the Si-C-N thin film by x-ray-absorption spectroscopy and theoretical calculations. <i>Physical Review B</i> , 1998 , 58, 9018-9024	3.3	30
350	Integrated nano-architected photocatalysts for photochemical CO reduction. <i>Nanoscale</i> , 2020 , 12, 23301-23332	7.7	30
349	Effect of pore-directing agents in SBA-15 nanoparticles on the performance of Nafion [®] /SBA-15n composite membranes for DMFC. <i>Journal of Membrane Science</i> , 2017 , 526, 106-117	9.6	29
348	Synergistic optimization of thermoelectric performance of Sb doped GeTe with a strained domain and domain boundaries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5332-5341	13	29
347	High performance of catalysts supported by directly grown PTFE-free micro-porous CNT layer in a proton exchange membrane fuel cell. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2512		29

346	Size-dependent photoconductivity and dark conductivity of m-axial GaN nanowires with small critical diameter. <i>Applied Physics Letters</i> , 2009 , 95, 143123	3.4	29
345	Quasi-quenching size effects in gold nanoclusters embedded in silica matrix. <i>Chemical Physics Letters</i> , 2003 , 370, 254-260	2.5	29
344	Novel polyimides containing benzimidazole for temperature proton exchange membrane fuel. <i>Journal of Membrane Science</i> , 2015 , 483, 144-154	9.6	28
343	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 137-44	11.8	28
342	Graphene nanosheet/CNT hybrid nanostructure electrode for a proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18989-18995	6.7	28
341	Ternary PtRuNi Nanocatalysts Supported on N-Doped Carbon Nanotubes: Deposition Process, Material Characterization, and Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1249 ³⁻⁹		28
340	The production of SiC nanowalls sheathed with a few layers of strained graphene and their use in heterogeneous catalysis and sensing applications. <i>Carbon</i> , 2011 , 49, 4911-4919	10.4	28
339	High growth rate deposition of oriented hexagonal InN films. <i>Thin Solid Films</i> , 2002 , 405, 194-197	2.2	28
338	Electronic structure of the Fe-layer-catalyzed carbon nanotubes studied by x-ray-absorption spectroscopy. <i>Applied Physics Letters</i> , 2001 , 79, 3179-3181	3.4	28
337	The use of a biomolecular target for crystalline carbon nitride film deposition by Ar ion-beam sputtering without any other source of nitrogen. <i>Applied Physics Letters</i> , 1998 , 72, 3449-3451	3.4	28
336	Atomistic nucleation sites of Pt nanoparticles on N-doped carbon nanotubes. <i>Nanoscale</i> , 2013 , 5, 6812-87.7		27
335	Controlled growth of aluminium nitride nanorod arrays via chemical vapour deposition. <i>Nanotechnology</i> , 2006 , 17, S321-S326	3.4	27
334	Photoluminescence spectroscopy of nearly defect-free InN microcrystals exhibiting nondegenerate semiconductor behaviors. <i>Applied Physics Letters</i> , 2007 , 91, 181912	3.4	27
333	Study of a Super-Resolution Optical Structure: Polycarbonate/ZnS/BiO ₂ /ZnO/ZnS/BiO ₂ /Ge ₂ Sb ₂ Te ₅ /ZnS/BiO ₂ . <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 1029-1030	1.4	27
332	High-temperature Raman study in CVD diamond. <i>Thin Solid Films</i> , 1995 , 270, 143-147	2.2	27
331	Highly efficient nitrogen and carbon coordinated NiCo electrocatalysts on reduced graphene oxide derived from vitamin-B12 for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7179-7185	13	26
330	Energy production and conversion applications of one-dimensional semiconductor nanostructures. <i>NPG Asia Materials</i> , 2011 , 3, 74-81	10.3	26
329	Traveling wave method for measurement of thermal conductivity of thin films. <i>Review of Scientific Instruments</i> , 1997 , 68, 4180-4183	1.7	26

328	Evaluation of microstructures and mechanical properties of diamond like carbon films deposited by filtered cathodic arc plasma. <i>Thin Solid Films</i> , 2008 , 516, 5440-5444	2.2	26
327	Mechanical properties of nanocrystalline diamond films. <i>Journal of Applied Physics</i> , 2006 , 99, 124302	2.5	26
326	Growth of Well Aligned IrO ₂ Nanotubes on LiTaO ₃ (012) Substrate. <i>Chemistry of Materials</i> , 2004 , 16, 2457-2462	2.6	26
325	Structural and electronic properties of wide band gap silicon carbon nitride materials: first-principles study. <i>Diamond and Related Materials</i> , 2004 , 13, 1158-1165	3.5	26
324	Thermionic emission of amorphous diamond and field emission of carbon nanotubes. <i>Carbon</i> , 2003 , 41, 2839-2845	10.4	26
323	Comparative studies on field emission properties of carbon-based materials. <i>Diamond and Related Materials</i> , 2000 , 9, 1249-1256	3.5	26
322	Advanced nanoporous separators for stable lithium metal electrodeposition at ultra-high current densities in liquid electrolytes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5095-5104	13	25
321	Multicolor Ultralow-Threshold Random Laser Assisted by Vertical-Graphene Network. <i>Advanced Optical Materials</i> , 2018 , 6, 1800382	8.1	25
320	Preparation of non-precious metal catalysts for PEMFC cathode from pyrolyzed vitamin B12. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13755-13762	6.7	24
319	The preparation of silver nanoparticle decorated silica nanowires on fused quartz as reusable versatile nanostructured surface-enhanced Raman scattering substrates. <i>Nanotechnology</i> , 2010 , 21, 025302	3.4	24
318	Highly transparent nano-crystalline diamond films via substrate pretreatment and methane fraction optimization. <i>Thin Solid Films</i> , 1998 , 332, 34-39	2.2	24
317	Novel two stage method for growth of highly transparent nano-crystalline diamond films. <i>Materials Letters</i> , 1998 , 36, 279-283	3.3	24
316	Electronic structures and bonding properties of chlorine-treated nitrogenated carbon nanotubes: X-ray absorption and scanning photoelectron microscopy studies. <i>Applied Physics Letters</i> , 2007 , 90, 192107	3.4	24
315	Mechanical properties of amorphous boron carbon nitride films produced by dual gun sputtering. <i>Diamond and Related Materials</i> , 2003 , 12, 1463-1471	3.5	24
314	Field emission properties of two-layer structured SiCN films. <i>Surface and Coatings Technology</i> , 2001 , 137, 152-157	4.4	24
313	Electron beam induced formation of carbon nanorods. <i>Journal of Physics and Chemistry of Solids</i> , 2001 , 62, 1561-1565	3.9	24
312	Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure. <i>CrystEngComm</i> , 2015 , 17, 3440-3445	3.3	23
311	Growth of EGa ₂ O ₃ and GaN nanowires on GaN for photoelectrochemical hydrogen generation. <i>Nanotechnology</i> , 2013 , 24, 055401	3.4	23

310	High-performance pyrolyzed iron corrole as a potential non-precious metal catalyst for PEMFCs. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14692	13	23
309	High k nanophase zinc oxide on biomimetic silicon nanotip array as supercapacitors. <i>Nano Letters</i> , 2013 , 13, 1422-8	11.5	23
308	Enhancement of the energy photoconversion efficiency through crystallographic etching of a c-plane GaN thin film. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8118		23
307	Polarization-resolved fine-structure splitting of zero-dimensional In _x Ga _{1-x} N excitons. <i>Physical Review B</i> , 2011 , 83,	3.3	23
306	Strong room-temperature UV emission of nanocrystalline ZnO films derived from a polymeric solution. <i>Chemical Physics Letters</i> , 2004 , 391, 278-282	2.5	23
305	X-ray absorption of Si _{1-x} Ge _x thin films: A comparison between crystalline and amorphous phases. <i>Journal of Applied Physics</i> , 1999 , 86, 5609-5613	2.5	23
304	Graphene-to-substrate energy transfer through out-of-plane longitudinal acoustic phonons. <i>Nano Letters</i> , 2014 , 14, 1317-23	11.5	22
303	Ultrafast Charging-Discharging Capacitive Property of RuO ₂ Nanoparticles on Carbon Nanotubes Using Nitrogen Incorporation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, K15	3.9	22
302	Optical properties of nanocrystalline diamond films from mid-infrared to ultraviolet using reflectometry and ellipsometry. <i>Journal of Materials Science: Materials in Electronics</i> , 2007 , 18, 37-41	2.1	22
301	Blue luminescence of Au nanoclusters embedded in silica matrix. <i>Journal of Chemical Physics</i> , 2004 , 121, 12595-9	3.9	22
300	Enhancement of thermoelectric figure of merit in In ₂ S ₃ by indium doping control. <i>Applied Physics Letters</i> , 2015 , 107, 123902	3.4	21
299	Nonlinear bandgap opening behavior of BN co-doped graphene. <i>Carbon</i> , 2016 , 107, 857-864	10.4	21
298	Effect of substrate temperature on orientation of subphthalocyanine molecule in organic photovoltaic cells. <i>Thin Solid Films</i> , 2012 , 520, 2289-2292	2.2	21
297	Photoelectrochemical activity on Ga-polar and N-polar GaN surfaces for energy conversion. <i>Optics Express</i> , 2014 , 22 Suppl 1, A21-7	3.3	21
296	Anomalous quantum efficiency for photoconduction and its power dependence in metal oxide semiconductor nanowires. <i>Nanoscale</i> , 2013 , 5, 6867-73	7.7	21
295	High-phase-purity zinc-blende InN on r-plane sapphire substrate with controlled nitridation pretreatment. <i>Applied Physics Letters</i> , 2008 , 92, 111914	3.4	21
294	Ferromagnetism in cobalt-doped n-GaN. <i>Applied Physics Letters</i> , 2006 , 88, 173110	3.4	21
293	Electronic and bonding structures of B-C-N thin films investigated by x-ray absorption and photoemission spectroscopy. <i>Journal of Applied Physics</i> , 2004 , 96, 208-211	2.5	21

292	Field emission of nanostructured amorphous SiCN films deposited by reactive magnetron sputtering of SiC in CH ₄ /N ₂ atmosphere. <i>Thin Solid Films</i> , 2002 , 416, 85-91	2.2	21
291	Growth, characterization, optical and X-ray absorption studies of nano-crystalline diamond films. <i>Diamond and Related Materials</i> , 2000 , 9, 877-882	3.5	21
290	Low turn-on voltage field emission triodes with selective growth of carbon nanotubes. <i>IEEE Electron Device Letters</i> , 2001 , 22, 516-518	4.4	21
289	Effects of substrate pretreatment and methane fraction on the optical transparency of nanocrystalline diamond thin films. <i>Journal of Materials Research</i> , 1998 , 13, 1769-1773	2.5	21
288	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. <i>ACS Sensors</i> , 2019 , 4, 406-412	9.2	20
287	Direct observation of amorphization in load rate dependent nanoindentation studies of crystalline Si. <i>Applied Physics Letters</i> , 2010 , 96, 253113	3.4	20
286	Platinum nanoparticles embedded in pyrolyzed nitrogen-containing cobalt complexes for high methanol-tolerant oxygen reduction activity. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7551		20
285	Mechanism of bright red emission in Si nanoclusters. <i>Nanotechnology</i> , 2008 , 19, 395401	3.4	20
284	Self-regulating and diameter-selective growth of GaN nanowires. <i>Nanotechnology</i> , 2006 , 17, S332-S337	3.4	20
283	Mechanism of nanoblisters formation in Ga ⁺ self-ion implanted GaN nanowires. <i>Applied Physics Letters</i> , 2005 , 86, 203119	3.4	20
282	Preparation and characterization of carbon nanotubes encapsulated GaN nanowires. <i>Journal of Physics and Chemistry of Solids</i> , 2001 , 62, 1577-1586	3.9	20
281	Catalyst-free and controllable growth of SiC _x N _y nanorods. <i>Journal of Physics and Chemistry of Solids</i> , 2001 , 62, 1567-1576	3.9	20
280	Nano-carbon nitride synthesis from a bio-molecular target for ion beam sputtering at low temperature. <i>Diamond and Related Materials</i> , 1999 , 8, 605-609	3.5	20
279	Room-temperature heteroepitaxy of single-phase Al _{1-x} In _x N films with full composition range on isostructural wurtzite templates. <i>Thin Solid Films</i> , 2012 , 524, 113-120	2.2	19
278	Photochemically active reduced graphene oxide with controllable oxidation level. <i>RSC Advances</i> , 2012 , 2, 11258	3.7	19
277	O ₂ plasma-activated CuO-ZnO inverse opals as high-performance methanol microreformer. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10611		19
276	Superior capacitive property of RuO ₂ nanoparticles on carbon nanotubes incorporated with nitrogen. <i>Nanotechnology</i> , 2007 , 18, 485716	3.4	19
275	Direct evidence of nanocluster-induced luminescence in InGaN epilayers. <i>Applied Physics Letters</i> , 2005 , 86, 021911	3.4	19

274	Growth of High-Quality Epitaxial InN Film with High-Speed Reactant Gas by Organometallic Vapor-Phase Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L1321-L1324	1.4	19
273	Enhanced solar cell performance of Cu ₂ ZnSn(S,Se) ₄ thin films through structural control by using multi-metallic stacked nanolayers and fast ramping process for sulfo-selenization. <i>Nano Energy</i> , 2016 , 30, 762-770	17.1	19
272	High and Its Origin in Sb-doped GeTe Single Crystals. <i>Advanced Science</i> , 2020 , 7, 2002494	13.6	18
271	Effect of annealing temperature on thermoelectric properties of Ga and In dually doped - ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 156-165	5.7	18
270	Cobalt-phosphate-assisted photoelectrochemical water oxidation by arrays of molybdenum-doped zinc oxide nanorods. <i>ChemSusChem</i> , 2014 , 7, 2748-54	8.3	18
269	Patterned growth of nanocrystalline silicon thin films through magnesiothermic reduction of soda lime glass. <i>Green Chemistry</i> , 2012 , 14, 896	10	18
268	Enhancing efficiency with fluorinated interlayers in small molecule organic solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22899		18
267	Catalytic performance of plate-type Cu/Fe nanocomposites on ZnO nanorods for oxidative steam reforming of methanol. <i>Chemical Communications</i> , 2011 , 47, 1473-5	5.8	18
266	Field emission effects of nitrogenated carbon nanotubes on chlorination and oxidation. <i>Journal of Applied Physics</i> , 2008 , 104, 063710	2.5	18
265	Electronic structures of group-III nitride nanorods studied by x-ray absorption, x-ray emission, and Raman spectroscopy. <i>Applied Physics Letters</i> , 2006 , 88, 223113	3.4	18
264	Reduced temperature-quenching of photoluminescence from indium nitride nanotips grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2005 , 87, 203103	3.4	18
263	X-Ray absorption studies of boron-carbon-nitrogen (B _x C _y N _z) ternary alloys. <i>Diamond and Related Materials</i> , 2004 , 13, 1553-1557	3.5	18
262	Thermal diffusivity in amorphous silicon carbon nitride thin films by the traveling wave technique. <i>Applied Physics Letters</i> , 2001 , 79, 332-334	3.4	18
261	A high performance polybenzimidazole-NT hybrid electrode for high-temperature proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7015-7019	13	17
260	Highly proton-selective biopolymer layer-coated ion-exchange membrane for direct methanol fuel cells. <i>ChemSusChem</i> , 2012 , 5, 392-5	8.3	17
259	Optical properties of functionalized GaN nanowires. <i>Journal of Applied Physics</i> , 2011 , 109, 053523	2.5	17
258	Morphology control of silicon nanotips fabricated by electron cyclotron resonance plasma etching. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 308		17
257	Effects of High-Density Oxygen Plasma Posttreatment on Field Emission Properties of Carbon Nanotube Field-Emission Displays. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 8231-8236	1.4	17

256	Correlation of Electrical, Thermal and Structural Properties of Microcrystalline Silicon Thin Films. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L229-L232	1.4	17
255	A synergistic cascade effect in copper zinc tin sulfide nanowalls for highly stable and efficient lithium ion storage. <i>Nano Energy</i> , 2018 , 44, 438-446	17.1	17
254	Functionalizing Biomaterials to Be an Efficient Proton-Exchange Membrane and Methanol Barrier for DMFCs. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 302-308	8.3	16
253	Dynamic characteristics of the exciton and the biexciton in a single InGaN quantum dot. <i>Applied Physics Letters</i> , 2012 , 101, 061910	3.4	16
252	Photoconduction efficiencies of metal oxide semiconductor nanowires: The material's inherent properties. <i>Applied Physics Letters</i> , 2013 , 103, 223107	3.4	16
251	Surface plasmon-enhanced gas sensing in single gold-peapodded silica nanowires. <i>NPG Asia Materials</i> , 2013 , 5, e49-e49	10.3	16
250	Photocurrent Mapping in High-Efficiency Radial p-n Junction Silicon Nanowire Solar Cells Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21981-21986	3.8	16
249	Oxygen reducing activity of methanol-tolerant catalysts by high-temperature pyrolysis. <i>Diamond and Related Materials</i> , 2011 , 20, 322-329	3.5	16
248	Photoconduction efficiencies and dynamics in GaN nanowires grown by chemical vapor deposition and molecular beam epitaxy: A comparison study. <i>Applied Physics Letters</i> , 2012 , 101, 113109	3.4	16
247	Efficient hydrogen production using Cu-based catalysts prepared via homogeneous precipitation. <i>Journal of Materials Chemistry</i> , 2009 , 19, 9186		16
246	Suppressing series resistance in organic solar cells by oxygen plasma treatment. <i>Applied Physics Letters</i> , 2008 , 92, 233302	3.4	16
245	Enhanced Emission of (In, Ga) Nitride Nanowires Embedded with Self-Assembled Quantum Dots. <i>Advanced Functional Materials</i> , 2008 , 18, 938-942	15.6	16
244	Effect of gold coating on local oxidation using an atomic force microscope. <i>Applied Physics Letters</i> , 2005 , 86, 161901	3.4	16
243	Bonding characterization, density measurement, and thermal diffusivity studies of amorphous silicon carbon nitride and boron carbon nitride thin films. <i>Journal of Applied Physics</i> , 2002 , 92, 5150-5158	2.5	16
242	Synthesis and Properties of Poly(ether sulfone)s with Clustered Sulfonic Groups for PEMFC Applications under Various Relative Humidity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9805-9814	9.5	15
241	Above 10% efficiency earth-abundant Cu ₂ ZnSn(S,Se) ₄ solar cells by introducing alkali metal fluoride nanolayers as electron-selective contacts. <i>Nano Energy</i> , 2018 , 51, 597-603	17.1	15
240	Single-Crystal Y ₂ O ₃ Epitaxially on GaAs(001) and (111) Using Atomic Layer Deposition. <i>Materials</i> , 2015 , 8, 7084-7093	3.5	15
239	Two-domain formation during the epitaxial growth of GaN (0001) on c-plane Al ₂ O ₃ (0001) by high power impulse magnetron sputtering. <i>Journal of Applied Physics</i> , 2011 , 110, 123519	2.5	15

238	Influence of Solvent on the Dispersion of Single-Walled Carbon Nanotubes in Polymer Matrix and the Photovoltaic Performance. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10932-10936	3.8	15
237	Silver-Nanoparticle-Conjugated Polypeptide Brushes for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13498-13504	3.8	15
236	A complete Raman mapping of phase transitions in Si under indentation. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 334-339	2.3	15
235	Resistive heated MOCVD deposition of InN films. <i>Materials Chemistry and Physics</i> , 2001 , 72, 290-295	4.4	15
234	Enhancement in field emission of silicon microtips by bias-assisted carburization. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 2722		15
233	GROWTH, CHARACTERIZATION, AND PROPERTIES OF CARBON NITRIDE WITH AND WITHOUT SILICON ADDITION. <i>International Journal of Modern Physics B</i> , 2000 , 14, 333-348	1.1	15
232	Bonding characterization and nano-indentation study of the amorphous SiC _x N _y films with and without hydrogen incorporation. <i>Diamond and Related Materials</i> , 2001 , 10, 1916-1920	3.5	15
231	Ellipsometric study of carbon nitride thin films with and without silicon addition. <i>Diamond and Related Materials</i> , 1999 , 8, 618-622	3.5	15
230	Enhanced Thermoelectric Properties of In-Filled Co ₄ Sb ₁₂ with InSb Nano-inclusions. <i>ACS Applied Energy Materials</i> , 2020 , 3, 635-646	6.1	15
229	Localized surface plasmonic resonance role of silver nanoparticles in the enhancement of long-chain hydrocarbons of the CO ₂ reduction over Ag-gC ₃ N ₄ /ZnO nanorods photocatalysts. <i>Chemical Engineering Science</i> , 2021 , 229, 116049	4.4	15
228	Hybrid bimetallic-N ₄ electrocatalyst derived from a pyrolyzed ferrocene-Co-corrrole complex for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9279-9286	13	14
227	Synthesis and characterization of novel imidazolium-functionalized polyimides for high temperature proton exchange membrane fuel cells. <i>RSC Advances</i> , 2016 , 6, 33959-33970	3.7	14
226	Enhancement of charge collection at shorter wavelengths from alternative CdS deposition conditions for high efficiency CZTSSe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 149, 49-54	6.4	14
225	Au nanoparticle modified GaN photoelectrode for photoelectrochemical hydrogen generation. <i>Electrochemistry Communications</i> , 2011 , 13, 530-533	5.1	14
224	Origin of the anomalous temperature evolution of photoluminescence peak energy in degenerate InN nanocolumns. <i>Optics Express</i> , 2009 , 17, 11690-7	3.3	14
223	Sputtering process of carbon nitride films by using a novel bio-molecular C _N containing target. <i>Thin Solid Films</i> , 1998 , 332, 74-79	2.2	14
222	Epitaxial growth of InN films by molecular-beam epitaxy using hydrazoic acid (HN ₃) as an efficient nitrogen source. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 6755-9	2.8	14
221	Anomalous Optical Properties of InN Nanobelts: Evidence of Surface Band Bending and Photoelastic Effects. <i>Advanced Materials</i> , 2007 , 19, 4524-4529	24	14

- 220 Photo-assisted local oxidation of GaN using an atomic force microscope. *Nanotechnology*, **2006**, 17, 3299-3303 14
- 219 Spillover effect in gold nanoclusters embedded in c-Al₂O₃(0001) matrix. *Chemical Physics Letters*, **2004**, 399, 354-358 2.5 14
- 218 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
- 217 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
- 216 Enhanced hydrogen evolution reaction on hybrids of cobalt phosphide and molybdenum phosphide. *Royal Society Open Science*, **2017**, 4, 161016 3.3 13
- 215 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
- 214 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
- 213 Photoconduction and the electronic structure of silica nanowires embedded with gold nanoparticles. *Physical Review B*, **2011**, 84, 3.3 13
- 212 Photoconductivity and highly selective ultraviolet sensing features of amorphous silicon carbon nitride thin films. *Applied Physics Letters*, **2006**, 88, 073515 3.4 13
- 211 Optical characterization of GaN by N⁺ implantation into GaAs at elevated temperature. *Applied Physics Letters*, **2005**, 87, 261915 3.4 13
- 210 Integration of Thin Film Transistor Controlled Carbon Nanotubes for Field Emission Devices. *Electrochemical and Solid-State Letters*, **2001**, 4, H5 13
- 209 Piezoreflectance study of silicon carbon nitride nanorods. *Applied Physics Letters*, **2000**, 76, 2044-2046 3.4 13
- 208 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
- 207 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
- 206 Effect of single metal doping on the thermoelectric properties of SnTe. *Sustainable Energy and Fuels*, **2019**, 3, 251-263 5.8 12
- 205 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
- 204 Surface plasmon resonance-induced color-selective Au-peapodded silica nanowire photodetectors with high photoconductive gain. *Nanoscale*, **2014**, 6, 1264-70 7.7 12
- 203 Highly transparent nano-crystalline diamond films grown by microwave CVD. *Solid State Communications*, **1998**, 107, 301-305 1.6 12

202	Effect of Ozone Cleaning and Annealing on TiAlPtAu Ohmic Contacts on GaN Nanowires. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G155		12
201	Enhanced Electrochemical Properties of Arrayed CN[sub x] Nanotubes Directly Grown on Ti-Buffered Silicon Substrates. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A175		12
200	A comparative study of the electronic structures of oxygen- and chlorine-treated nitrogenated carbon nanotubes by x-ray absorption and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , 2007 , 91, 202102	3.4	12
199	Fabrication and Characterization of Carbon Nanotube Triodes. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 3468-3473	1.4	12
198	Interaction of atomic hydrogen with a Ge(111) surface: low-energy electron diffraction and surface Raman studies. <i>Surface Science</i> , 2000 , 445, 139-150	1.8	12
197	Time-resolved spontaneous Raman spectroscopy of infrared-multiphoton-excited SF6. <i>Physical Review A</i> , 1986 , 34, 3892-3901	2.6	12
196	Geogrid-Inspired Nanostructure to Reinforce a CuxZnySnzS Nanowall Electrode for High-Stability Electrochemical Energy Conversion Devices. <i>Advanced Energy Materials</i> , 2017 , 7, 1602210	21.8	11
195	Pyrolysis of Iron Vitamin B9 As a Potential Nonprecious Metal Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2897-2905	8.3	11
194	Stacking Orientation Mediation of Pentacene and Derivatives for High Open-Circuit Voltage Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1079-83	6.4	11
193	Controlled growth of aligned helical-polypeptide brushes for tunable electrical conductivity. <i>Applied Physics Letters</i> , 2011 , 98, 133304	3.4	11
192	Recrystallization of epitaxial GaN under indentation. <i>Applied Physics Letters</i> , 2008 , 92, 143114	3.4	11
191	Carbon Nanotubes Grown Directly on Ti Electrodes and Enhancement of Their Electrochemical Properties by Nitric Acid Treatment. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A5		11
190	Effect of H2 addition on SiCN film growth in an electron cyclotron resonance plasma chemical vapor deposition reactor. <i>Journal of Materials Chemistry</i> , 2000 , 10, 783-787		11
189	Carbon nanotube growth by rapid thermal processing. <i>Diamond and Related Materials</i> , 2001 , 10, 1810-1813	3.3	11
188	Nonthermal intramolecular vibrational energy distribution in infrared-multiphoton-excited CF2Cl. <i>Physical Review Letters</i> , 1987 , 59, 2728-2731	7.4	11
187	High- κ Samarium-Based Metal-Organic Framework for Gate Dielectric Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21872-21878	9.5	10
186	Co-solvent effect on microwave-assisted Cu2ZnSnS4 nanoparticles synthesis for thin film solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 161, 416-423	6.4	10
185	Effect of Sn Substitution on the Thermoelectric Properties of Synthetic Tetrahedrite. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21686-21696	9.5	10

184	Comparison of CVD- and MBE-grown GaN Nanowires: Crystallinity, Photoluminescence, and Photoconductivity. <i>Journal of Electronic Materials</i> , 2015 , 44, 177-187	1.9	10
183	Direct assessment of the mechanical modulus of graphene co-doped with low concentrations of boron-nitrogen by a non-contact approach. <i>Nanoscale</i> , 2014 , 6, 8635-41	7.7	10
182	Side group of poly(3-alkylthiophene)s controlled dispersion of single-walled carbon nanotubes for transparent conducting film. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4616-22	9.5	10
181	Effect of substrate bias on the promotion of nanocrystalline silicon growth from He-diluted SiH ₄ plasma at low temperature. <i>Journal of Materials Research</i> , 2012 , 27, 1303-1313	2.5	10
180	m-plane (101 0) InN heteroepitaxied on (100)-LiAlO ₂ substrate: Growth orientation control and characterization of structural and optical anisotropy. <i>Journal of Applied Physics</i> , 2010 , 107, 073502	2.5	10
179	Nanostructured Zinc Oxide Nanorods with Copper Nanoparticles as a Microreformation Catalyst. <i>Angewandte Chemie</i> , 2009 , 121, 7722-7726	3.6	10
178	Optical and structural properties of Mg-ion implanted GaN nanowires. <i>Vacuum</i> , 2009 , 83, 797-800	3.7	10
177	Photoconduction mechanism of oxygen sensitization in InN nanowires. <i>Nanotechnology</i> , 2011 , 22, 425703-4	3.4	10
176	Growth of sparse arrays of narrow GaN nanorods hosting spectrally stable InGaN quantum disks. <i>Optics Express</i> , 2012 , 20, 16166	3.3	10
175	Geometrically tuned and chemically switched wetting properties of silicon nanotips. <i>Nanotechnology</i> , 2006 , 17, 2542-5	3.4	10
174	Interface energy of Au ₇ Si grown in the interfacial layer of truncated hexagonal dipyramidal Au nanoislands on polycrystalline-silicon. <i>Applied Physics Letters</i> , 2003 , 82, 4468-4470	3.4	10
173	X-ray absorption studies of carbon-related materials. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 145-9	2.4	10
172	Surface electron accumulation and enhanced hydrogen evolution reaction in MoSe ₂ basal planes. <i>Nano Energy</i> , 2021 , 84, 105922	17.1	10
171	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. <i>ACS Photonics</i> , 2016 , 3, 985-991	6.3	10
170	Superior lithium-ion storage performance of hierarchical tin disulfide and carbon nanotube-carbon cloth composites. <i>Journal of Power Sources</i> , 2021 , 482, 228923	8.9	10
169	Thermoelectric properties of BiCuSeO with bismuth and oxygen vacancies. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 035501	3	10
168	High-efficient photocatalytic degradation of commercial drugs for pharmaceutical wastewater treatment prospects: A case study of Ag/g-CN/ZnO nanocomposite materials. <i>Chemosphere</i> , 2021 , 282, 130971	8.4	10
167	Plasmonic Switching in Au-Functionalized GaN Nanowires in the Realm of Surface Plasmon Polariton Propagation: a Single Nanowire Switching Device. <i>Plasmonics</i> , 2015 , 10, 347-350	2.4	9

166	Hierarchically Porous Calcium-containing Manganese Dioxide Nanorod Bundles with Superior Photoelectrochemical Activity. <i>ChemCatChem</i> , 2014 , 6, 1684-1690	5.2	9
165	Giant Positive Magnetoresistance in Ferromagnetic Manganites/Silicon Nanotips Diode. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21132-21137	3.8	9
164	Electron field emission properties of highly dense carbon nanotube arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 11-16	2.6	9
163	Spectral characterization of bulk and nanostructured aluminum nitride. <i>Journal of Nanophotonics</i> , 2009 , 3, 031950	1.1	9
162	Electrophoretic deposition of PtRu nanoparticles on carbon nanotubes for methanol oxidation. <i>Diamond and Related Materials</i> , 2009 , 18, 557-562	3.5	9
161	Hot Photoluminescence in In ₂ Se ₃ Nanorods. <i>Nanoscale Research Letters</i> , 2008 , 3, 427-30	5	9
160	Long-range ferromagnetic ordering at room temperature in Co+implanted TiO ₂ nanorods. <i>Nanotechnology</i> , 2007 , 18, 325705	3.4	9
159	Group III- and Group IV-Nitride Nanorods and Nanowires 2003 , 257-315		9
158	Comparison of the electronic structures of AlN nanotips grown on p- and n-type Si substrates. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 7523-7530	1.8	9
157	Formation and in situ dynamics of metallic nanoblisters in Ga+implanted GaN nanowires. <i>Nanotechnology</i> , 2005 , 16, 2764-2769	3.4	9
156	Fabrication and Characterization of Low Turn-On Voltage Carbon Nanotube Field Emission Triodes. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, H15		9
155	Electronic and bonding structures of amorphous SiO _x thin films by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2001 , 79, 2393-2395	3.4	9
154	Surface-enhanced Raman analysis of diamond films using different metals. <i>Materials Letters</i> , 2000 , 42, 162-165	3.3	9
153	Boosting photocatalytic CO ₂ reduction in a ZnS/ZnIn ₂ S ₄ heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO ₂ interaction thereon. <i>Nano Energy</i> , 2022 , 93, 106809	17.1	9
152	Characterization of the cleaning process on a transferred graphene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014 , 32, 050601	2.9	8
151	Suppressed piezoelectric polarization in single InGaN/GaN heterostructure nanowires. <i>Physical Review B</i> , 2013 , 88,	3.3	8
150	Using optical anisotropy as a quality factor to rapidly characterize structural qualities of large-area graphene films. <i>Analytical Chemistry</i> , 2013 , 85, 1605-14	7.8	8
149	Gold nanoparticle-modulated conductivity in gold peapodded silica nanowires. <i>Nanoscale</i> , 2012 , 4, 3660-47		8

148	An ab-initio approach to the optical properties of CxNy single wall nanotubes. <i>Diamond and Related Materials</i> , 2009 , 18, 1002-1005	3.5	8
147	Superior electrochemical performance of CNx nanotubes using TiSi2 buffer layer on Si substrates. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 87		8
146	Amorphous boron carbon nitride as a pH sensor. <i>Applied Physics Letters</i> , 2004 , 84, 2676-2678	3.4	8
145	Multiplex pure rotational coherent anti-stokes Raman spectroscopy in a molecular beam. <i>Journal of Raman Spectroscopy</i> , 1990 , 21, 819-825	2.3	8
144	Hydrogen enhancing Ga doping efficiency and electron mobility in high-performance transparent conducting Ga-doped ZnO films. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158518	5.7	8
143	Fabrication of Cu2ZnSnSe4 solar cells through multi-step selenization of layered metallic precursor film. <i>Thin Solid Films</i> , 2016 , 618, 42-49	2.2	8
142	Nano-textured fluidic biochip as biological filter for selective survival of neuronal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2015-23	5.4	7
141	Surface plasmon polariton assisted optical switching in noble bimetallic nanoparticle system. <i>Applied Physics Letters</i> , 2015 , 106, 023101	3.4	7
140	Surface diffusion controlled formation of high quality vertically aligned InN nanotubes. <i>Journal of Applied Physics</i> , 2014 , 116, 124301	2.5	7
139	Effect of XeF laser treatment on structure of nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2010 , 19, 445-448	3.5	7
138	The mechanism of the recrystallization process in epitaxial GaN under dynamic stress field: atomistic origin of planar defect formation. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1881-1884	2.3	7
137	Enhancement of electron field emission of nitrogenated carbon nanotubes on chlorination. <i>Diamond and Related Materials</i> , 2009 , 18, 457-460	3.5	7
136	Control of nucleation site density of GaN nanowires. <i>Applied Surface Science</i> , 2007 , 253, 3196-3200	6.7	7
135	Enhanced field emission from nitrogen-doped amorphous diamond. <i>Journal of Materials Research</i> , 2003 , 18, 1594-1599	2.5	7
134	Effect of dilution gas on SiCN films growth using methylamine. <i>Materials Chemistry and Physics</i> , 2001 , 72, 240-244	4.4	7
133	LOW TEMPERATURE GROWTH OF ALIGNED CARBON NANOTUBES IN LARGE AREA. <i>International Journal of Modern Physics B</i> , 2002 , 16, 853-859	1.1	7
132	Thermal diffusivity in diamond, SiCxNy and BCxNy. <i>Diamond and Related Materials</i> , 2002 , 11, 708-713	3.5	7
131	Piezoreflectance study of an Fe-containing silicon carbon nitride crystalline film. <i>Journal of Applied Physics</i> , 2000 , 87, 280-284	2.5	7

130	Characterization of lead zirconate titanate thin film deposition onto Pt/Ti/SiO ₂ /Si substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 1999 , 10, 551-556	2.1	7
129	Multiplex coherent anti-Stokes Raman spectroscopy study of infrared-multiphoton-excited OCS. <i>Journal of Chemical Physics</i> , 1989 , 91, 1462-1468	3.9	7
128	Metal-free four-in-one modification of g-C ₃ N ₄ for superior photocatalytic CO ₂ reduction and H ₂ evolution. <i>Chemical Engineering Journal</i> , 2022 , 430, 132853	14.7	7
127	Thermoelectric and electronic properties of chromium substituted tetrahedrite. <i>Semiconductor Science and Technology</i> , 2019 , 34, 035017	1.8	7
126	Photoconduction properties and anomalous power-dependent quantum efficiency in non-polar ZnO epitaxial films grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2017 , 110, 052101	3.4	6
125	Thermoelectric properties of Pb and Na dual doped BiCuSeO. <i>AIP Advances</i> , 2019 , 9, 015025	1.5	6
124	Enhanced thermoelectric performance of BiCuTeO by excess Bi additions. <i>Ceramics International</i> , 2019 , 45, 9254-9259	5.1	6
123	Nondestructive characterization of the structural quality and thickness of large-area graphene on various substrates. <i>Analytical Chemistry</i> , 2014 , 86, 7192-9	7.8	6
122	Resistance memory device of La _{0.7} Sr _{0.3} MnO ₃ on Si nanotips template. <i>Applied Physics Letters</i> , 2013 , 103, 211606	3.4	6
121	Plasmon management in index engineered 2.5D hybrid nanostructures for surface-enhanced Raman scattering. <i>NPG Asia Materials</i> , 2014 , 6, e123-e123	10.3	6
120	Optical properties of plasma-assisted molecular beam epitaxy grown InN/sapphire. <i>Optical Materials</i> , 2014 , 37, 1-4	3.3	6
119	A self-reductive mesoporous CuO(x)/Fe/silicate nanocomposite as a highly active and stable catalyst for methanol reforming. <i>Chemical Communications</i> , 2011 , 47, 9414-6	5.8	6
118	Pd-catalyzed hydrogen sensing with InN nanobelts. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, L8		6
117	Influence of catalyst oxidation on the growth of nitrogen-containing carbon nanotubes for energy generation and storage applications. <i>Diamond and Related Materials</i> , 2007 , 16, 1140-1143	3.5	6
116	Nitrogen ion beam synthesis of InN in InP(100) at elevated temperature. <i>Applied Physics Letters</i> , 2006 , 88, 241904	3.4	6
115	Self-selected apex angle distribution in aluminum nitride and indium nitride nanotips. <i>Applied Physics Letters</i> , 2006 , 89, 143105	3.4	6
114	Growth and characterization of gallium nitride nanowires produced on different sol-gel derived catalyst dispersed in titania and polyvinyl alcohol matrix. <i>Journal of Materials Research</i> , 2004 , 19, 1768-1774	2.5	6
113	Improvement of Field Emission Characteristics of Carbon Nanotubes by Excimer Laser Treatment. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 6132-6136	1.4	6

112	Scanning microwave microscope imaging of micro-patterned monolayer graphene grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2016 , 108, 053101	3.4	6
111	Atomistic insights into highly active reconstructed edges of monolayer 2H-WSe photocatalyst.. <i>Nature Communications</i> , 2022 , 13, 1256	17.4	6
110	Highly improved thermoelectric performance of BiCuTeO achieved by decreasing the oxygen content. <i>Materials Today Physics</i> , 2020 , 15, 100248	8	5
109	Enhancement in Thermoelectric Properties of TiS ₂ by Sn Addition. <i>Journal of Electronic Materials</i> , 2018 , 47, 3091-3098	1.9	5
108	Photoconductivities in m-plane and c-plane ZnO epitaxial films grown by chemical vapor deposition on LiGaO ₂ substrates: a comparative study. <i>RSC Advances</i> , 2016 , 6, 86095-86100	3.7	5
107	Production and Storage of Energy with One-Dimensional Semiconductor Nanostructures. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2014 , 39, 109-153	10.1	5
106	SIMS methodology for probing the fate and dispersion of catalytically active molecules. <i>International Journal of Mass Spectrometry</i> , 2014 , 370, 107-113	1.9	5
105	Pulsed electrochemical deposition of Pt NPs on polybenzimidazole-CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14398-14404	6.7	5
104	Excitons and biexcitons in InGaN quantum dot like localization centers. <i>Nanotechnology</i> , 2014 , 25, 495703-4	3.4	5
103	High stability of oxidation of methanol catalyzed by Pt supported by oxygen-incorporated bamboo-shaped CNTs grown directly on carbon cloth. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10663-10670	6.7	5
102	Studies of Electronic Excitations of Rectangular ZnO Nanorods by Electron Energy-Loss Spectroscopy. <i>Plasmonics</i> , 2012 , 7, 123-130	2.4	5
101	Nucleation of single GaN nanorods with diameters smaller than 35 nm by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013 , 103, 203108	3.4	5
100	Focused Ion Beam Induced Nanojunction and Defect Doping as a Building Block for Nanoscale Electronics in GaN Nanowires. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15260-15265	3.8	5
99	Coulomb blockade behavior in an indium nitride nanowire with disordered surface states. <i>Applied Physics Letters</i> , 2009 , 95, 092110	3.4	5
98	GaN-Based Sensors. <i>Springer Series in Materials Science</i> , 2012 , 165-207	0.9	5
97	Growth orientation dependent hardness for epitaxial wurtzite InN films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5170-4	1.3	5
96	Electrical properties of annealed MPCVD grown vertically aligned carbon nanotube films. <i>Diamond and Related Materials</i> , 2004 , 13, 2156-2159	3.5	5
95	Phase and thickness dependence of thermal diffusivity in a-SiC _x N _y and a-BC _x N _y . <i>Thin Solid Films</i> , 2002 , 420-421, 205-211	2.2	5

94	Nano-tip emission of tetrahedral amorphous carbon. <i>Diamond and Related Materials</i> , 2003 , 12, 1691-1693.	3.5	5
93	Synthesis and characterization of an organic-organic hybrid compound: [WO ₃ (2,2'-bipy)] (2,2'-bipy=2,2'-bipyridine). <i>Journal of Materials Chemistry</i> , 1998 , 8, 2181-2184		5
92	Poly(ether sulfone)-Based Anion Exchange Membranes Containing Dense Quaternary Ammonium Cations and Their Application for Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2201-2217	6.1	5
91	Copper Zinc Tin Sulfide Anode Materials for Lithium-Ion Batteries at Low Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8970-8979	8.3	5
90	Effect of pore-directing agents and silanol groups in mesoporous silica nanoparticles as Nafion fillers on the performance of DMFCs. <i>RSC Advances</i> , 2016 , 6, 111666-111680	3.7	5
89	Nanoscale redox mapping at the MoS ₂ -liquid interface. <i>Nature Communications</i> , 2021 , 12, 1321	17.4	5
88	Influence of GeP precipitates on the thermoelectric properties of P-type GeTe and Ge _{0.9} PxSb _{0.1} Te compounds. <i>CrystEngComm</i> , 2018 , 20, 6449-6457	3.3	5
87	Thermoelectric Properties of Zn Doped BiCuSeO. <i>Journal of Electronic Materials</i> , 2019 , 48, 3631-3642	1.9	4
86	Analysis and characterization of an atropisomeric ionomer containing quaternary ammonium groups. <i>Polymer</i> , 2018 , 141, 143-153	3.9	4
85	Enhancements in device efficiency of poly(3-hexylthiophene): [6,6]-phenyl C ₆₁ -butyric acid methyl ester based solar cells with incorporation of bathocuproine. <i>Thin Solid Films</i> , 2012 , 520, 5413-5416	2.2	4
84	Tuning open-circuit voltage in organic solar cells by magnesium modified Alq ₃ . <i>Journal of Applied Physics</i> , 2011 , 110, 83104-831045	2.5	4
83	Tuning energy levels in magnesium modified Alq ₃ . <i>Journal of Applied Physics</i> , 2011 , 109, 083541	2.5	4
82	Anisotropic surface plasmon excitation in Au/silica nanowire. <i>Applied Physics Letters</i> , 2010 , 96, 263106	3.4	4
81	Characterization of air-exposure/activation cycles of porous TiZrV getter film using synchrotron radiation photoemission spectroscopy. <i>Thin Solid Films</i> , 2009 , 517, 3672-3676	2.2	4
80	Raman scattering and Rutherford backscattering studies on InN films grown by plasma-assisted molecular beam epitaxy. <i>Thin Solid Films</i> , 2011 , 519, 6778-6782	2.2	4
79	Spectroscopic ellipsometry analysis of silicon nanotips obtained by electron cyclotron resonance plasma etching. <i>Applied Optics</i> , 2009 , 48, 4996-5004	0.2	4
78	Mesoporous active carbon dispersed with ultra-fine platinum nanoparticles and their electrochemical properties. <i>Diamond and Related Materials</i> , 2009 , 18, 303-306	3.5	4
77	Thermal diffusivity study in supported epitaxial InN thin films by the traveling-wave technique. <i>Journal of Applied Physics</i> , 2008 , 104, 064920	2.5	4

76	Improved Field-Emission Properties of Carbon Nanotube Field-Emission Arrays by Controlled Density Growth of Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 365-370	1.4	4
75	Co ₃ V ₂ O ₈ hollow spheres with mesoporous walls as high-capacitance electrode for hybrid supercapacitor device. <i>Chemical Engineering Journal</i> , 2022 , 436, 135225	14.7	4
74	Thermally Strain-Induced Band Gap Opening on Platinum Diselenide-Layered Films: A Promising Two-Dimensional Material with Excellent Thermoelectric Performance. <i>Chemistry of Materials</i> , 2021 , 33, 3490-3498	9.6	4
73	Thermoelectric properties of Mn doped BiCuSeO. <i>Materials Research Express</i> , 2019 , 6, 086305	1.7	4
72	S-Scheme Fe ₂ O ₃ /g-C ₃ N ₄ Nanocomposites as Heterojunction Photocatalysts for Antibiotic Degradation. <i>ACS Applied Nano Materials</i> , 2022 , 5, 4506-4514	5.6	4
71	Polybenzimidazoles containing heterocyclic benzo[c]cinnoline structure prepared by sol-gel process and acid doping level adjustment for high temperature PEMFC application. <i>Polymer</i> , 2019 , 182, 121814	3.9	3
70	The effects of fluorine-contained molecules on improving the polymer solar cell by curing the anomalous S-shaped I-V curve. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6683-9	9.5	3
69	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-10	3.8	3
68	Improving the thermoelectric performance of metastable rock-salt GeTe-rich Ge _{1-x} Te thin films through tuning of grain orientation and vacancies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 3122-3129	1.6	3
67	Local property change of graphene induced by a Cu nanoparticle. <i>Carbon</i> , 2016 , 98, 666-670	10.4	3
66	Low temperature magneto-transport properties in bilayered magnetic anti-dot microarrays. <i>Applied Surface Science</i> , 2014 , 314, 453-457	6.7	3
65	Giant room temperature electric-field-assisted magnetoresistance in La _{0.7} Sr _{0.3} MnO ₃ /n-Si nanotip heterojunctions. <i>Nanotechnology</i> , 2011 , 22, 125701	3.4	3
64	Spectroscopic characterizations of individual single-crystalline GaN nanowires in visible/ultra-violet regime. <i>Micron</i> , 2010 , 41, 827-32	2.3	3
63	Growth of Ternary Silicon Carbon Nitride as a New Wide Band Gap Material. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 468, 31		3
62	Electronic and atomic structures of SiCN thin film by X-ray-absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998 , 92, 115-118	1.7	3
61	Influence of oxygen on the elastic properties of nanocrystalline diamond films studied by laser-induced surface acoustic waves. <i>Ultrasonics</i> , 2006 , 44 Suppl 1, e1229-32	3.5	3
60	Doping and electrical properties of amorphous silicon carbon nitride films. <i>Diamond and Related Materials</i> , 2003 , 12, 1213-1219	3.5	3
59	Characterization of Nanodome on GaN Nanowires Formed with Ga Ion Irradiation. <i>Materials Transactions</i> , 2004 , 45, 435-439	1.3	3

58	Growth of nanocrystalline diamond films in CCl ₄ /H ₂ ambient. <i>Thin Solid Films</i> , 2005 , 473, 24-30	2.2	3
57	Fabrication and Characterization of lateral Field Emission Device Based on Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 2612-2617	1.4	3
56	Raman Spectroscopic Studies of the Thermal Decomposition of Molybdenum Oxide/2,2'-Bipyridine Compounds. <i>Applied Spectroscopy</i> , 1999 , 53, 1083-1086	3.1	3
55	A Comparative Study of Optical Anisotropies of BC ₃ and B ₃ C Systems by Density Functional Theory. <i>ISRN Nanotechnology</i> , 2011 , 2011, 1-9		3
54	Enhanced thermoelectric performance in a percolated bismuth sulfide composite. <i>RSC Advances</i> , 2016 , 6, 98952-98955	3.7	3
53	Impact of Cation Substitution in (Ag _x Cu _{1-x}) ₂ ZnSnSe ₄ Absorber-Based Solar Cells toward 10% Efficiency: Experimental and Theoretical Analyses. <i>Solar Rrl</i> , 2021 , 5, 2100441	7.1	3
52	On the Reduction of O ₂ on Cathode Surfaces of Co ^{II} orrin and Co ^{III} orphyrin: A Computational and Experimental Study on Their Relative Efficiencies in H ₂ O/H ₂ O ₂ Formation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4652-4659	3.8	2
51	Edge Doping Effect to the Surface Plasmon Resonances in Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19820-19827	3.8	2
50	A COMPARATIVE STUDY OF OPTICAL PROPERTIES OF C ₃ N AND CN ₃ SYSTEMS THROUGH DENSITY FUNCTIONAL THEORY (DFT). <i>International Journal of Nanoscience</i> , 2011 , 10, 361-365	0.6	2
49	Magnetoresistance fluctuations in a weak disorder indium nitride nanowire. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 185009	3	2
48	Spontaneous Synthesis and Electrochemical Characterization of Nanostructured MnO ₂ on Nitrogen-Incorporated Carbon Nanotubes. <i>International Journal of Electrochemistry</i> , 2012 , 2012, 1-10	2.4	2
47	Magnetic-field and temperature dependence of the energy gap in InN nanobelt. <i>AIP Advances</i> , 2012 , 2, 012155	1.5	2
46	Electroluminescence enhancement of SiGe/Si multiple quantum wells through nanowall structures. <i>Nanotechnology</i> , 2008 , 19, 365705	3.4	2
45	Thermally activated electron emission from nano-tips of amorphous diamond and carbon nano-tubes. <i>Thin Solid Films</i> , 2004 , 447-448, 187-191	2.2	2
44	Field Emission Characteristics of Amorphous Diamond. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1513-1517	3.8	2
43	Preparation and analysis of the negative resistance characteristic in an amorphous silicon and silicon nitride single-barrier device. <i>Applied Physics Letters</i> , 1994 , 65, 2815-2817	3.4	2
42	On the Optimized Nucleation of Near-Single-Crystal CVD Diamond Film. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 416, 81		2
41	Raman spectroscopy of infrared multiphoton excited molecules. <i>Laser Chemistry</i> , 1988 , 8, 97-122		2

40	Low-Frequency Contact Noise of GaN Nanowire Device Detected by Cross-Spectrum Technique. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 06GF21	1.4	2
39	Recent Advances in GaN Nanowires: Surface-Controlled Conduction and Sensing Applications. <i>Springer Series in Materials Science</i> , 2012 , 295-315	0.9	2
38	Origin of Band Modulation in GeTe-Rich Ge _{1-x} Te _x Thin Film. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2619-2625	4	2
37	Enhanced Thermoelectric Performance via Oxygen Manipulation in BiCuTeO. <i>MRS Advances</i> , 2019 , 4, 499-505	0.7	1
36	Fabrication of m-axial InGaN nanocolumn arrays on silicon substrates using triethylgallium precursor chemical vapor deposition approach. <i>Applied Surface Science</i> , 2014 , 299, 92-96	6.7	1
35	Polarized emission and excitonic fine structure energies of InGaN quantum dots. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1553-1555	2.8	1
34	Origin and tuning of surface optic and long wavelength phonons in biomimetic GaAs nanotip arrays. <i>Optical Materials Express</i> , 2011 , 1, 535	2.6	1
33	Biomimetic nanostructures for anti-reflection (AR) devices 2012 , 108-146		1
32	Carbon Nanotube-Supported Catalysts for the Direct Methanol Fuel Cell 315-354		1
31	Effect of Structural Morphology on Electrochemical Properties of Carbon Nanotubes Directly Grown on Ti Foil. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, K60		1
30	The analyses on the surface properties of the annealed-diamond membrane. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 95, 111-115	3.1	1
29	Effect of target materials on crystalline carbon nitride film preparation by ion beam sputtering. <i>Diamond and Related Materials</i> , 1999 , 8, 1724-1729	3.5	1
28	Methylamine Growth of SiCN Films Using ECR-CVD. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 606, 115		1
27	Direct evidence for π -mode excitation in the infrared multiphoton excitation of SO ₂ . <i>Chemical Physics Letters</i> , 1991 , 176, 355-360	2.5	1
26	RECENT TRENDS IN INDIUM NITRIDE NANOMATERIALS 2008 , 431-462		1
25	Bandgap Shrinkage and Charge Transfer in 2D Layered SnS Doped with V for Photocatalytic Efficiency Improvement. <i>Small</i> , 2021 , e2105076	11	1
24	Synergistic Dual-Atom Molecular Catalyst Derived from Low-Temperature Pyrolyzed Heterobimetallic Macrocyclic N ₄ Corrole Complex for Oxygen Reduction. <i>Small</i> , 2021 , 17, e2103823	11	1
23	Solar to hydrocarbon production using metal-free water-soluble bulk heterojunction of conducting polymer nanoparticle and graphene oxide. <i>Journal of Chemical Physics</i> , 2021 , 154, 164707	3.9	1

22	A facile and green synthesis of copper zinc tin sulfide materials for thin film photovoltaics. <i>Thin Solid Films</i> , 2016 , 618, 124-129	2.2	1
21	Microstructural intra-granular cracking in Cu ₂ ZnSnS ₄ @C thin-film anode enhanced the electrochemical performance in lithium-ion battery applications. <i>Materials Advances</i> , 2021 , 2, 5672-5685 ³⁻³		1
20	Enhanced Thermoelectric Performance in Ternary Skutterudite Co(GeTe) via Band Engineering.. <i>Inorganic Chemistry</i> , 2022 , 61, 4442-4452	5.1	1
19	Achieving synergistic performance through highly compacted microcrystalline rods induced in Mo doped GeTe based compounds. <i>Materials Today Physics</i> , 2021 , 100571	8	0
18	Enhancing the photovoltaic properties of SnS-Based solar cells by crystallographic orientation engineering. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 111499	6.4	0
17	Thickness-Dependent Photocatalysis of Ultra-Thin MoS ₂ Film for Visible-Light-Driven CO ₂ Reduction. <i>Catalysts</i> , 2021 , 11, 1295	4	0
16	Understanding the effect of sputtering pressures on the thermoelectric properties of GeTe films. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162342	5.7	0
15	Optimal method for preparing sulfonated polyaryletherketones with high ion exchange capacity by acid-catalyzed crosslinking for proton exchange membrane fuel cells. <i>Journal of Polymer Science</i> , 2021 , 59, 706-720	2.4	0
14	Enhancing thermoelectric performance of Sn _{0.5} Ge _{0.5} Te via doping with In/Zn, In/Sb and In/Bi. <i>Journal of Solid State Chemistry</i> , 2021 , 302, 122444	3.3	0
13	Enhancing the Areal Capacity and Stability of CuZnSnS Anode Materials by Carbon Coating: Mechanistic and Structural Studies During Lithiation and Delithiation.. <i>ACS Omega</i> , 2022 , 7, 9152-9163	3.9	0
12	Low-Frequency Contact Noise of GaN Nanowire Device Detected by Cross-Spectrum Technique. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 06GF21	1.4	
11	Growth of Highly Transparent Nano-Crystalline Diamond Films by Microwave CVD. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 495, 131		
10	Self assembled gold and silver nanoparticulates on silicon nanotips as surface enhanced Raman active substrates. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 788, 251		
9	Synthesis of Polyaniline Nanotubes in the Channels of Anodic Alumina Membrane 2005 , 8-16		
8	Response to [Comment on Direct evidence of nanocluster-induced luminescence in InGaN epilayers][Appl. Phys. Lett. 87, 136101 (2005)]. <i>Applied Physics Letters</i> , 2005 , 87, 136102	3.4	
7	GENERALLY APPLICABLE SELF-MASKING TECHNIQUE FOR NANOTIPS ARRAY FABRICATION. <i>International Journal of Nanoscience</i> , 2005 , 04, 879-886	0.6	
6	GaN Growth by Nitrogen ECR-CVD Method. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 423, 377		
5	Coherent anti-Stokes Raman spectroscopy of infrared multiphoton excited molecules. <i>Journal of Chemical Physics</i> , 1994 , 101, 8517-8528	3.9	

- 4 Chen, Wang, and Mazur reply. *Physical Review Letters*, **1989**, 63, 1534 7.4
- 3 Highly Nonthermal Intramolecular Energy Distribution in Isolated Infrared Multiphoton Excited CF₂Cl₂ Molecules. *Springer Series in Optical Sciences*, **1987**, 236-238 0.5
- 2 Multiplex CARS Study of Infrared-Multiphoton-Excited OCS **1989**, 439-441
- 1 Two-Dimensional Layered NiLiP₂S₆ Crystals as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. *Catalysts*, **2021**, 11, 786 4