

Li-Chyong Chen

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442
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447
ext. papers

20,470
ext. citations

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avg, IF

6.41
L-index

#	Paper	IF	Citations
442	Improved broadband and quasi-omnidirectional anti-reflection properties with biomimetic silicon nanostructures. <i>Nature Nanotechnology</i> , 2007 , 2, 770-4	28.7	872
441	Tunable photoluminescence from graphene oxide. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6662-6	16.4	520
440	Catalytic growth and characterization of gallium nitride nanowires. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2791-8	16.4	462
439	Anti-reflecting and photonic nanostructures. <i>Materials Science and Engineering Reports</i> , 2010 , 69, 1-35	30.9	438
438	Conducting polymer-based flexible supercapacitor. <i>Energy Science and Engineering</i> , 2015 , 3, 2-26	3.4	377
437	DNA-gold nanorod conjugates for remote control of localized gene expression by near infrared irradiation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3709-15	16.4	370
436	Graphene oxide as a promising photocatalyst for CO ₂ to methanol conversion. <i>Nanoscale</i> , 2013 , 5, 262-87.7		346
435	Heterostructures of ZnO/Zn coaxial nanocables and ZnO nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 1312-1314	3.4	306
434	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
433	Polymer structure and solvent effects on the selective dispersion of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3543-53	16.4	264
432	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
431	Calorimetric evidence for the micro-quasicrystalline structure of 'amorphous' Al/transition metal alloys. <i>Nature</i> , 1988 , 336, 366-368	50.4	253
430	Elastic, mechanical, and thermal properties of nanocrystalline diamond films. <i>Journal of Applied Physics</i> , 2003 , 93, 2164-2171	2.5	248
429	Photosensitive gold-nanoparticle-embedded dielectric nanowires. <i>Nature Materials</i> , 2006 , 5, 102-6	27	245
428	Analysis of calorimetric measurements of grain growth. <i>Journal of Applied Physics</i> , 1991 , 69, 679-688	2.5	230
427	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
426	Band gap engineering of chemical vapor deposited graphene by in situ BN doping. <i>ACS Nano</i> , 2013 , 7, 1333-41	16.7	222

425	Carbon-doped SnS nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018 , 9, 169	17.4	219
424	Highly flexible supercapacitors with manganese oxide nanosheet/carbon cloth electrode. <i>Electrochimica Acta</i> , 2011 , 56, 7124-7130	6.7	198
423	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
422	Complete corrosion inhibition through graphene defect passivation. <i>ACS Nano</i> , 2014 , 8, 443-8	16.7	185
421	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
420	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
419	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
418	5nm ruthenium thin film as a directly plateable copper diffusion barrier. <i>Applied Physics Letters</i> , 2005 , 86, 083104	3.4	152
417	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
416	Crystalline silicon carbon nitride: A wide band gap semiconductor. <i>Applied Physics Letters</i> , 1998 , 72, 2463-2465	3.4	145
415	Controlling the Oxidation State of the Cu Electrode and Reaction Intermediates for Electrochemical CO Reduction to Ethylene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2857-2867	16.4	142
414	Generally Applicable Self-Masked Dry Etching Technique for Nanotip Array Fabrication. <i>Nano Letters</i> , 2004 , 4, 471-475	11.5	138
413	Synthesis and Characterization of Core/Shell GaP@GaN and GaN@GaP Nanowires. <i>Nano Letters</i> , 2003 , 3, 537-541	11.5	128
412	Ultrahigh photocurrent gain in m-axial GaN nanowires. <i>Applied Physics Letters</i> , 2007 , 91, 223106	3.4	126
411	Novel iron oxyhydroxide lepidocrocite nanosheet as ultrahigh power density anode material for asymmetric supercapacitors. <i>Small</i> , 2014 , 10, 3803-10	11	125
410	Electroluminescence from ZnO nanowire/polymer composite p-n junction. <i>Applied Physics Letters</i> , 2006 , 88, 173503	3.4	121
409	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
408	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

407	High-cell-voltage supercapacitor of carbon nanotube/carbon cloth operating in neutral aqueous solution. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3383		112
406	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. <i>Nanoscale</i> , 2012 , 4, 6515-9	7.7	106
405	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
404	Quantum Confinement Effect in Diamond Nanocrystals Studied by X-Ray-Absorption Spectroscopy. <i>Physical Review Letters</i> , 1999 , 82, 5377-5380	7.4	103
403	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
402	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
401	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
400	High photocurrent gain in SnO ₂ nanowires. <i>Applied Physics Letters</i> , 2008 , 93, 112115	3.4	94
399	Pyrolyzed Cobalt Corrole as a Potential Non-Precious Catalyst for Fuel Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 3500-3508	15.6	93
398	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
397	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
396	Surface-Enhanced Raman Spectroscopy Using Self-Assembled Silver Nanoparticles on Silicon Nanotips. <i>Chemistry of Materials</i> , 2005 , 17, 553-559	9.6	86
395	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
394	Growth mechanism, structure and IR photoluminescence studies of indium nitride nanorods. <i>Journal of Crystal Growth</i> , 2004 , 269, 87-94	1.6	84
393	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	13	83
392	The affinity of Si ^{δ-} and Si ^{δ+} bonding in amorphous silicon carbon nitride (a-SiCN) thin film. <i>Diamond and Related Materials</i> , 2005 , 14, 1126-1130	3.5	83
391	Atomic-scale deformation in N-doped carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8368-9	16.4	83
390	SiC-capped nanotip arrays for field emission with ultralow turn-on field. <i>Applied Physics Letters</i> , 2003 , 83, 1420-1422	3.4	82

389	Ni-Nanocluster Modified Black TiO with Dual Active Sites for Selective Photocatalytic CO Reduction. <i>Small</i> , 2018 , 14, 1702928	11	80
388	Label-free dual sensing of DNA molecules using GaN nanowires. <i>Analytical Chemistry</i> , 2009 , 81, 36-42	7.8	79
387	Electroluminescence from ZnO/Si-nanotips light-emitting diodes. <i>Nano Letters</i> , 2009 , 9, 1839-43	11.5	79
386	Arrayed CNx NT@RuO ₂ nanocomposites directly grown on Ti-buffered Si substrate for supercapacitor applications. <i>Electrochemistry Communications</i> , 2007 , 9, 239-244	5.1	79
385	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
384	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
383	Field emission from quasi-aligned SiCN nanorods. <i>Applied Physics Letters</i> , 2000 , 76, 2630-2632	3.4	76
382	Crystalline SiCN: a hard material rivals to cubic BN. <i>Thin Solid Films</i> , 1999 , 355-356, 112-116	2.2	75
381	Nanotips: Growth, Model, and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2006 , 31, 15-53	10.1	73
380	Design for approaching Cicada-wing reflectance in low- and high-index biomimetic nanostructures. <i>ACS Nano</i> , 2015 , 9, 301-11	16.7	71
379	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
378	Composition of SiCN crystals consisting of a predominantly carbon-nitride network. <i>Journal of Materials Research</i> , 1997 , 12, 322-325	2.5	69
377	Fluorescent organic nanoparticles of benzofuran-naphthyridine linked molecules: formation and fluorescence enhancement in aqueous media. <i>Organic Letters</i> , 2006 , 8, 3713-6	6.2	69
376	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
375	Mechanism of luminescence in InGaN/GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2000 , 76, 3712-3714	3.4	68
374	Micro-Raman for diamond film stress analysis. <i>Diamond and Related Materials</i> , 1995 , 4, 460-463	3.5	68
373	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
372	Eco-friendly plasmonic sensors: using the photothermal effect to prepare metal nanoparticle-containing test papers for highly sensitive colorimetric detection. <i>Analytical Chemistry</i> , 2012 , 84, 5140-5	7.8	65

371	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
370	Nanohomojunction (GaN) and Nanoheterojunction (InN) Nanorods on One-Dimensional GaN Nanowire Substrates. <i>Advanced Functional Materials</i> , 2004 , 14, 233-237	15.6	65
369	Nanostructured zinc oxide nanorods with copper nanoparticles as a microreformation catalyst. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7586-90	16.4	63
368	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
367	Direct-growth of polyaniline nanowires for enzyme-immobilization and glucose detection. <i>Electrochemistry Communications</i> , 2009 , 11, 850-853	5.1	61
366	Enhanced dynamic annealing in Ga ⁺ ion-implanted GaN nanowires. <i>Applied Physics Letters</i> , 2003 , 82, 451-453	3.4	61
365	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
364	Room-temperature negative photoconductivity in degenerate InN thin films with a supergap excitation. <i>Physical Review B</i> , 2010 , 81,	3.3	60
363	Electrical transport properties of single GaN and InN nanowires. <i>Journal of Electronic Materials</i> , 2006 , 35, 738-743	1.9	60
362	Transport properties of InN nanowires. <i>Applied Physics Letters</i> , 2005 , 87, 093112	3.4	60
361	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
360	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. <i>Carbon</i> , 2015 , 82, 124-134	10.4	58
359	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
358	Field emission from quasi-aligned aluminum nitride nanotips. <i>Applied Physics Letters</i> , 2005 , 87, 073109	3.4	57
357	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
356	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
355	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
354	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

353	Nanostructures and carrier localization behaviors of green-luminescence InGaN/GaN quantum-well structures of various silicon-doping conditions. <i>Applied Physics Letters</i> , 2004 , 84, 2506-2508	3-4	53
352	Effects of cathode buffer layers on the efficiency of bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2010 , 96, 263506	3-4	52
351	Direct voltammetric sensing of L-cysteine at pristine GaN nanowires electrode. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1688-91	11.8	52
350	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
349	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
348	High-gain photoconductivity in semiconducting InN nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 162112	3-4	50
347	Substitutional nitrogen incorporation through rf glow discharge treatment and subsequent oxygen uptake on vertically aligned carbon nanotubes. <i>Physical Review B</i> , 2007 , 75,	3-3	50
346	Structure and elastic properties of amorphous silicon carbon nitride films. <i>Physical Review B</i> , 2001 , 64,	3-3	50
345	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
344	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
343	Coalescence overgrowth of GaN nanocolumns on sapphire with patterned metal organic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2009 , 105, 023501	2.5	47
342	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
341	Prestrained effect on the emission properties of InGaN/GaN quantum-well structures. <i>Applied Physics Letters</i> , 2006 , 89, 051913	3-4	47
340	Size-dependent persistent photocurrent and surface band bending in m-axial GaN nanowires. <i>Physical Review B</i> , 2011 , 84,	3-3	46
339	Functionalized GaN nanowire-based electrode for direct label-free voltammetric detection of DNA hybridization. <i>Journal of Materials Chemistry</i> , 2009 , 19, 928		45
338	Multiphonon Raman scattering in GaN nanowires. <i>Applied Physics Letters</i> , 2007 , 90, 213104	3-4	45
337	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
336	Microwave-activated CuO nanotip/ZnO nanorod nanoarchitectures for efficient hydrogen production. <i>Journal of Materials Chemistry</i> , 2011 , 21, 324-326		44

335	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
334	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
333	Photoconductivity in single AlN nanowires by subband gap excitation. <i>Applied Physics Letters</i> , 2010 , 96, 062104	3.4	43
332	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
331	Molecule-modulated photoconductivity and gain-amplified selective gas sensing in polar GaN nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 233119	3.4	42
330	Structural evolution of AlN nano-structures: Nanotips and nanorods. <i>Chemical Physics Letters</i> , 2006 , 418, 152-157	2.5	42
329	Directly-Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. <i>ChemSusChem</i> , 2016 , 9, 370-8	8.3	40
328	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
327	Infrared lasing in InN nanobelts. <i>Applied Physics Letters</i> , 2007 , 90, 123109	3.4	40
326	Luminescence properties of wurtzite AlN nanotips. <i>Applied Physics Letters</i> , 2006 , 89, 163127	3.4	40
325	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
324	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
323	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
322	First principles calculations of the optical properties of C _x N _y single walled nanotubes. <i>Nanotechnology</i> , 2009 , 20, 175701	3.4	39
321	A first principles study of the optical properties of B _x C _y single wall nanotubes. <i>Carbon</i> , 2007 , 45, 1482-1494	10.4	39
320	Strong luminescence from strain relaxed InGaN/GaN nanotips for highly efficient light emitters. <i>Optics Express</i> , 2007 , 15, 9357-65	3.3	39
319	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
318	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

317	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
316	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
315	Enhanced Charge Separation by Sieve-Layer Mediation in High-Efficiency Inorganic-Organic Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 759-763	24	36
314	Surface optical Raman modes in InN nanostructures. <i>Applied Physics Letters</i> , 2008 , 93, 233116	3-4	36
313	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
312	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
311	Deposition of silicon carbon nitride films by ion beam sputtering. <i>Thin Solid Films</i> , 1999 , 355-356, 417-422.	2.2	36
310	Fast growth of large-grain and continuous MoS films through a self-capping vapor-liquid-solid method. <i>Nature Communications</i> , 2020 , 11, 3682	17.4	36
309	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
308	Cluster size and composition variations in yellow and red light-emitting InGaN thin films upon thermal annealing. <i>Journal of Applied Physics</i> , 2004 , 95, 5388-5396	2.5	35
307	Laser irradiation of carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2001 , 72, 218-222	4-4	35
306	Structure and properties of C ₆₀ Pd films formed by electroreduction of C ₆₀ and palladium(II) acetate trimer: evidence for the presence of palladium nanoparticles. <i>Journal of Materials Chemistry</i> , 2003 , 13, 518-525		34
305	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
304	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
303	Blueshift of yellow luminescence band in self-ion-implanted n-GaN nanowire. <i>Applied Physics Letters</i> , 2004 , 84, 3486-3488	3-4	33
302	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
301	How to use calorimetry to distinguish a microcrystalline structure from an amorphous structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 133, 342-345	5-3	33
300	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

- 299 Hydrogen in InN: A ubiquitous phenomenon in molecular beam epitaxy grown material. *Applied Physics Letters*, **2010**, 96, 081907 3.4 32
- 298 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
- 297 Selective-hydrogen sensing at room temperature with Pt-coated InN nanobelts. *Applied Physics Letters*, **2008**, 93, 202109 3.4 31
- 296 Hexagonal-to-cubic phase transformation in GaN nanowires by Ga⁺ implantation. *Applied Physics Letters*, **2004**, 84, 5473-5475 3.4 31
- 295 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
- 294 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
- 293 Chloroboron subphthalocyanine/C₆₀ planar heterojunction organic solar cell with N,N-dicarbazolyl-3,5-benzene blocking layer. *Solar Energy Materials and Solar Cells*, **2014**, 122, 264-270 6.4 30
- 292 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
- 291 Near infrared photodetector based on polymer and indium nitride nanorod organic/inorganic hybrids. *Scripta Materialia*, **2010**, 63, 653-656 5.6 30
- 290 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
- 289 Integrated nano-architected photocatalysts for photochemical CO reduction. *Nanoscale*, **2020**, 12, 23301-23332 7.7 30
- 288 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
- 287 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
- 286 Size-dependent photoconductivity and dark conductivity of m-axial GaN nanowires with small critical diameter. *Applied Physics Letters*, **2009**, 95, 143123 3.4 29
- 285 Quasiquenching size effects in gold nanoclusters embedded in silica matrix. *Chemical Physics Letters*, **2003**, 370, 254-260 2.5 29
- 284 Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. *Biosensors and Bioelectronics*, **2015**, 70, 137-44 11.8 28
- 283 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
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