Yichun Liu

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558 papers	28,393 citations	79 h-index	147 g-index
568 ext. papers	31,200 ext. citations	5.7 avg, IF	7.21 L-index

#	Paper	IF	Citations
558	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. *Science*, **2014**, 345, 542-6	33.3	5272
557	Electrospun nanofibers of p-type NiO/n-type ZnO heterojunctions with enhanced photocatalytic activity. *ACS Applied Materials & Interfaces*, **2010**, 2, 2915-23	9.5	504
556	In situ assembly of well-dispersed Ag nanoparticles (AgNPs) on electrospun carbon nanofibers (CNFs) for catalytic reduction of 4-nitrophenol. *Nanoscale*, **2011**, 3, 3357-63	7.7	501
555	Synaptic Learning and Memory Functions Achieved Using Oxygen Ion Migration/Diffusion in an Amorphous InGaZnO Memristor. *Advanced Functional Materials*, **2012**, 22, 2759-2765	15.6	477
554	High photocatalytic activity of ZnO-carbon nanofiber heteroarchitectures. *ACS Applied Materials & Interfaces*, **2011**, 3, 590-6	9.5	359
553	Electrospun Nanofibers of ZnO⁄SnO2 Heterojunction with High Photocatalytic Activity. *Journal of Physical Chemistry C*, **2010**, 114, 7920-7925	3.8	318
552	Hierarchical assembly of ultrathin hexagonal SnS2 nanosheets onto electrospun TiO2 nanofibers: enhanced photocatalytic activity based on photoinduced interfacial charge transfer. *Nanoscale*, **2013**, 5, 606-18	7.7	312
551	Structural and Optical Properties of Uniform ZnO Nanosheets. *Advanced Materials*, **2005**, 17, 586-590	24	296
550	SnO2 nanostructures-TiO2 nanofibers heterostructures: controlled fabrication and high photocatalytic properties. *Inorganic Chemistry*, **2009**, 48, 7261-8	5.1	278
549	Highly dispersed Fe3O4 nanosheets on one-dimensional carbon nanofibers: Synthesis, formation mechanism, and electrochemical performance as supercapacitor electrode materials. *Nanoscale*, **2011**, 3, 5034	7.7	276
548	Enhancement of the visible-light photocatalytic activity of In2O3-TiO2 nanofiber heteroarchitectures. *ACS Applied Materials & Interfaces*, **2012**, 4, 424-30	9.5	268
547	In situ assembly of well-dispersed gold nanoparticles on electrospun silica nanotubes for catalytic reduction of 4-nitrophenol. *Chemical Communications*, **2011**, 47, 3906-8	5.8	264
546	A facile in situ hydrothermal method to SrTiO3/TiO2 nanofiber heterostructures with high photocatalytic activity. *Langmuir*, **2011**, 27, 2946-52	4	247
545	A single Eu-activated high-color-rendering oxychloride white-light phosphor for white-light-emitting diodes. *Light: Science and Applications*, **2016**, 5, e16024	16.7	244
544	Low Threshold Voltage Transistors Based on Individual Single-Crystalline Submicrometer-Sized Ribbons of Copper Phthalocyanine. *Advanced Materials*, **2006**, 18, 65-68	24	236
543	An Ultra Closely ⁄Stacked Organic Semiconductor for High Performance Field-Effect Transistors. *Advanced Materials*, **2007**, 19, 2613-2617	24	235
542	Photocatalytic properties BiOCl and Bi2O3 nanofibers prepared by electrospinning. *Scripta Materialia*, **2008**, 59, 332-335	5.6	226

541	Tubular nanocomposite catalysts based on size-controlled and highly dispersed silver nanoparticles assembled on electrospun silica nanotubes for catalytic reduction of 4-nitrophenol. *Journal of Materials Chemistry*, **2012**, 22, 1387-1395		225
540	Photoswitches and Phototransistors from Organic Single-Crystalline Sub-micro/nanometer Ribbons. *Advanced Materials*, **2007**, 19, 2624-2628	24	216
539	One-dimensional Bi2MoO6/TiO2 hierarchical heterostructures with enhanced photocatalytic activity. *CrystEngComm*, **2012**, 14, 605-612	3.3	213
538	Growth of ZnO nanostructures with different morphologies by using hydrothermal technique. *Journal of Physical Chemistry B*, **2006**, 110, 20263-7	3.4	190
537	Hierarchical heterostructures of Bi2MoO6 on carbon nanofibers: controllable solvothermal fabrication and enhanced visible photocatalytic properties. *Journal of Materials Chemistry*, **2012**, 22, 577-584		185
536	Facile in situ synthesis of plasmonic nanoparticles-decorated g-C3N4/TiO2 heterojunction nanofibers and comparison study of their photosynergistic effects for efficient photocatalytic H2 evolution. *Nanoscale*, **2016**, 8, 11034-43	7.7	184
535	White-light emission of polyvinyl alcohol⁄ZnO hybrid nanofibers prepared by electrospinning. *Applied Physics Letters*, **2005**, 87, 113115	3.4	178
534	ZnO Hollow Nanofibers: Fabrication from Facile Single Capillary Electrospinning and Applications in Gas Sensors. *Journal of Physical Chemistry C*, **2009**, 113, 19397-19403	3.8	176
533	Optical properties of ZnO and ZnO:In nanorods assembled by sol-gel method. *Journal of Chemical Physics*, **2005**, 123, 134701	3.9	174
532	Hierarchical nanostructures of copper(II) phthalocyanine on electrospun TiO(2) nanofibers: controllable solvothermal-fabrication and enhanced visible photocatalytic properties. *ACS Applied Materials & Interfaces*, **2011**, 3, 369-77	9.5	173
531	TiO(2)@carbon core/shell nanofibers: controllable preparation and enhanced visible photocatalytic properties. *Nanoscale*, **2011**, 3, 2943-9	7.7	172
530	Flexible solid-state supercapacitors based on freestanding nitrogen-doped porous carbon nanofibers derived from electrospun polyacrylonitrile@polyaniline nanofibers. *Journal of Materials Chemistry A*, **2016**, 4, 4180-4187	13	170
529	Electrospinning preparation, characterization and photocatalytic properties of Bi2O3 nanofibers. *Journal of Colloid and Interface Science*, **2009**, 333, 242-8	9.3	168
528	Superhydrophobic and ultraviolet-blocking cotton textiles. *ACS Applied Materials & Interfaces*, **2011**, 3, 1277-81	9.5	163
527	Gas dielectric transistor of CuPc single crystalline nanowire for SO⁄detection down to sub-ppm levels at room temperature. *Advanced Materials*, **2013**, 25, 2269-73, 2376	24	144
526	F-doping effects on electrical and optical properties of ZnO nanocrystalline films. *Applied Physics Letters*, **2005**, 86, 123107	3.4	144
525	A highly efficient white light (Sr3,Ca,Ba)(PO4)3Cl:Eu2+, Tb3+, Mn2+ phosphor via dual energy transfers for white light-emitting diodes. *Inorganic Chemistry*, **2014**, 53, 3441-8	5.1	129
524	Core/shell nanofibers of TiO2@carbon embedded by Ag nanoparticles with enhanced visible photocatalytic activity. *Journal of Materials Chemistry*, **2011**, 21, 17746		129

523	p-MoO3 nanostructures/n-TiO2 nanofiber heterojunctions: controlled fabrication and enhanced photocatalytic properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 9004-12	9.5	125
522	Bi2MoO6 microtubes: Controlled fabrication by using electrospun polyacrylonitrile microfibers as template and their enhanced visible light photocatalytic activity. *Journal of Hazardous Materials*, **2012**, 225-226, 155-63	12.8	123
521	A novel method for making ZrO2 nanofibres via an electrospinning technique. *Journal of Crystal Growth*, **2004**, 267, 380-384	1.6	123
520	Structure and photoluminescence of Mn-passivated nanocrystalline ZnO thin films. *Journal of Crystal Growth*, **2003**, 254, 80-85	1.6	116
519	Growth and optical properties of faceted hexagonal ZnO nanotubes. *Journal of Physical Chemistry B* , **2006**, 110, 14714-8	3.4	113
518	Visible and ultraviolet light alternative photodetector based on ZnO nanowire/n-Si heterojunction. *Applied Physics Letters*, **2008**, 93, 163501	3.4	112
517	In Situ Patterning of Organic Single-Crystalline Nanoribbons on a SiO2 Surface for the Fabrication of Various Architectures and High-Quality Transistors. *Advanced Materials*, **2006**, 18, 3010-3014	24	111
516	Room-temperature ferromagnetism in (Mn, N)-codoped ZnO thin films prepared by reactive magnetron cosputtering. *Applied Physics Letters*, **2006**, 88, 242502	3.4	110
515	Bi4Ti3O12 nanosheets/TiO2 submicron fibers heterostructures: in situ fabrication and high visible light photocatalytic activity. *Journal of Materials Chemistry*, **2011**, 21, 6922		108
514	Enhanced Raman Scattering of ZnO Quantum Dots on Silver Colloids. *Journal of Physical Chemistry C*, **2007**, 111, 3290-3293	3.8	106
513	Defect-Induced Yellow Color in Nb-Doped TiO2 and Its Impact on Visible-Light Photocatalysis. *Journal of Physical Chemistry C*, **2015**, 119, 16623-16632	3.8	105
512	Flexible Resistive Switching Memory Device Based on Amorphous InGaZnO Film With Excellent Mechanical Endurance. *IEEE Electron Device Letters*, **2011**, 32, 1442-1444	4.4	105
511	Polyacrylonitrile and Carbon Nanofibers with Controllable Nanoporous Structures by Electrospinning. *Macromolecular Materials and Engineering*, **2009**, 294, 673-678	3.9	104
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509	Electrospun nanofibers of V-doped TiO2 with high photocatalytic activity. *Journal of Colloid and Interface Science*, **2010**, 351, 57-62	9.3	103
508	Promotion of multi-electron transfer for enhanced photocatalysis: A review focused on oxygen reduction reaction. *Applied Surface Science*, **2015**, 358, 28-45	6.7	100
507	Photo-assisted preparation and patterning of large-area reduced graphene oxide-TiO(2) conductive thin film. *Chemical Communications*, **2010**, 46, 3499-501	5.8	100
506	In situ assembly of well-dispersed Au nanoparticles on TiO2/ZnO nanofibers: a three-way synergistic heterostructure with enhanced photocatalytic activity. *Journal of Hazardous Materials*, **2012**, 237-238, 331-8	12.8	99

505	Heterojunction of g-C3N4/BiOI Immobilized on Flexible Electrospun Polyacrylonitrile Nanofibers: Facile Preparation and Enhanced Visible Photocatalytic Activity for Floating Photocatalysis. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 2316-2323	8.3	98
504	Polyaniline-coated electrospun carbon nanofibers with high mass loading and enhanced capacitive performance as freestanding electrodes for flexible solid-state supercapacitors. *Energy*, **2016**, 95, 233-241	7.9	97
503	Heterostructured TiO2/WO3 porous microspheres: Preparation, characterization and photocatalytic properties. *Catalysis Today*, **2013**, 201, 195-202	5.3	97
502	Hydrothermal Growth of Layered Titanate Nanosheet Arrays on Titanium Foil and Their Topotactic Transformation to Heterostructured TiO2 Photocatalysts. *Journal of Physical Chemistry C*, **2011**, 115, 22276-22285	3.8	95
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499	One-dimensional hierarchical heterostructures of In_2S_3 nanosheets on electrospun TiO_2 nanofibers with enhanced visible photocatalytic activity. *Journal of Hazardous Materials*, **2013**, 260, 892-900	12.8	92
498	Performance improvement of resistive switching memory achieved by enhancing local-electric-field near electromigrated Ag-nanoclusters. *Nanoscale*, **2013**, 5, 4490-4	7.7	91
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495	Phytotoxic and genotoxic effects of ZnO nanoparticles on garlic (Allium sativum L.): a morphological study. *Nanotoxicology*, **2012**, 6, 241-8	5.3	88
494	Water-dichloromethane interface controlled synthesis of hierarchical rutile TiO2 superstructures and their photocatalytic properties. *Inorganic Chemistry*, **2009**, 48, 1105-13	5.1	87
493	Structure and optically pumped lasing from nanocrystalline ZnO thin films prepared by thermal oxidation of ZnS thin films. *Journal of Applied Physics*, **2002**, 92, 3293-3298	2.5	87
492	Photoluminescence of polyethylene oxide/ZnO composite electrospun fibers. *Polymer*, **2007**, 48, 1459-1463	3.9	86
491	The structural and optical properties of Cu2O films electrodeposited on different substrates. *Semiconductor Science and Technology*, **2005**, 20, 44-49	1.8	86
490	Ultrafast Li-ion battery anode with superlong life and excellent cycling stability from strongly coupled ZnO nanoparticle/conductive nanocarbon skeleton hybrid materials. *Nano Energy*, **2013**, 2, 579-585	17.1	85
489	High quality ZnO thin films grown by plasma enhanced chemical vapor deposition. *Journal of Applied Physics*, **2002**, 91, 501	2.5	85
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487	A simple method for controllable preparation of polymer nanotubes via a single capillary electrospinning. *Langmuir*, **2007**, 23, 10920-3	4	83
486	Color tuning of (K1⊠,Nax)SrPO4:0.005Eu2+, yTb3+ blue-emitting phosphors via crystal field modulation and energy transfer. *Journal of Materials Chemistry C*, **2013**, 1, 4570	7.1	82
485	Fabrication of NiCo2O4 nanofibers by electrospinning. *Solid State Communications*, **2004**, 131, 107-109	1.6	82
484	TiO2-x/CoOx photocatalyst sparkles in photothermocatalytic reduction of CO2 with H2O steam. *Applied Catalysis B: Environmental*, **2019**, 243, 760-770	21.8	82
483	Tin oxide (SnO2) nanoparticles/electrospun carbon nanofibers (CNFs) heterostructures: controlled fabrication and high capacitive behavior. *Journal of Colloid and Interface Science*, **2011**, 356, 706-12	9.3	80
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479	Bi2MoO6 ultrathin nanosheets on ZnTiO3 nanofibers: a 3D open hierarchical heterostructures synergistic system with enhanced visible-light-driven photocatalytic activity. *Journal of Hazardous Materials*, **2012**, 217-218, 422-8	12.8	78
478	The electrical properties and the interfaces of Cu2O/ZnO/ITO p⊠⊠ heterojunction. *Physica B: Condensed Matter*, **2004**, 351, 178-183	2.8	78
477	Nanofibers of CeO2 via an electrospinning technique. *Thin Solid Films*, **2005**, 478, 228-231	2.2	78
476	Nonvolatile/volatile behaviors and quantized conductance observed in resistive switching memory based on amorphous carbon. *Carbon*, **2015**, 91, 38-44	10.4	77
475	Biodegradable Natural Pectin-Based Flexible Multilevel Resistive Switching Memory for Transient Electronics. *Small*, **2019**, 15, e1803970	11	77
474	High-quality ZnO thin films prepared by two-step thermal oxidation of the metallic Zn. *Journal of Crystal Growth*, **2002**, 240, 467-472	1.6	76
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472	Carbon-modified BiVO4 microtubes embedded with Ag nanoparticles have high photocatalytic activity under visible light. *Nanoscale*, **2012**, 4, 7501-8	7.7	75
471	Photoelectrochemical Water Splitting with Rutile TiO2 Nanowires Array: Synergistic Effect of Hydrogen Treatment and Surface Modification with Anatase Nanoparticles. *Electrochimica Acta*, **2014**, 130, 290-295	6.7	74
470	Size-Controlled Synthesis and Optical Properties of Small-Sized ZnO Nanorods. *Journal of Physical Chemistry C*, **2009**, 113, 7497-7502	3.8	74

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468	Structural and optical properties of ZnO nanotower bundles. *Applied Physics Letters*, **2006**, 88, 123111	3.4	71
467	Ultraviolet electroluminescence from p-GaN/i-ZnO/n-ZnO heterojunction light-emitting diodes. *Applied Physics B: Lasers and Optics*, **2005**, 80, 871-874	1.9	71
466	Three-dimensional freestanding hierarchically porous carbon materials as binder-free electrodes for supercapacitors: high capacitive property and long-term cycling stability. *Journal of Materials Chemistry A*, **2016**, 4, 5623-5631	13	70
465	Local chemical states and thermal stabilities of nitrogen dopants in ZnO film studied by temperature-dependent x-ray photoelectron spectroscopy. *Applied Physics Letters*, **2009**, 95, 191903	3.4	70
464	Highly efficient decomposition of organic dye by aqueous-solid phase transfer and in situ photocatalysis using hierarchical copper phthalocyanine hollow spheres. *ACS Applied Materials & Interfaces*, **2011**, 3, 2573-8	9.5	69
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462	Synthesis of Fe3O4/CNTs magnetic nanocomposites at the liquid□quid interface using oleate as surfactant and reactant. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 408-412	2.8	68
461	Synthesis and luminescence properties of Eu3+-doped ZnO nanocrystals by a hydrothermal process. *Materials Chemistry and Physics*, **2007**, 106, 305-309	4.4	68
460	Electrospun nanofibers of NiO/ZnO composite. *Inorganic Chemistry Communication*, **2004**, 7, 625-627	3.1	68
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457	Simple ethanol impregnation treatment can enhance photocatalytic activity of TiO2 nanoparticles under visible-light irradiation. *ACS Applied Materials & Interfaces*, **2015**, 7, 7752-8	9.5	65
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450	BiOCl nanosheets immobilized on electrospun polyacrylonitrile nanofibers with high photocatalytic activity and reusable property. *Applied Surface Science*, **2013**, 285, 509-516	6.7	61
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447	Electrospun nanofibers of p-type BiFeO3/n-type TiO2 hetero-junctions with enhanced visible-light photocatalytic activity. *RSC Advances*, **2014**, 4, 31941	3.7	60
446	The optical properties of ZnO films grown on porous Si templates. *Journal Physics D: Applied Physics* , **2003**, 36, 2705-2708	3	60
445	Growth of single-crystalline rutile TiO2 nanowire array on titanate nanosheet film for dye-sensitized solar cells. *Journal of Materials Chemistry*, **2012**, 22, 6389		59
444	Fabrication, structure, and enhanced photocatalytic properties of hierarchical CeO2 nanostructures/TiO2 nanofibers heterostructures. *Materials Research Bulletin*, **2010**, 45, 1406-1412	5.1	59
443	Electrical and structural properties of p-type ZnO:N thin films prepared by plasma enhanced chemical vapour deposition. *Semiconductor Science and Technology*, **2005**, 20, 796-800	1.8	59
442	Preparation and characterization of ZnO particles embedded in SiO2 matrix by reactive magnetron sputtering. *Journal of Applied Physics*, **2005**, 97, 103509	2.5	59
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438	Effects of thermal annealing on ZnO films grown by plasma enhanced chemical vapour deposition from Zn(C2H5)2and CO2gas mixtures. *Journal Physics D: Applied Physics*, **2003**, 36, 719-722	3	55
437	Enhanced photoelectrochemical performance of nanoporous BiVO 4 photoanode by combining surface deposited cobalt-phosphate with hydrogenation treatment. *Electrochimica Acta*, **2016**, 195, 51-58	6.7	55
436	Highly stable copper wire/alumina/polyimide composite films for stretchable and transparent heaters. *Journal of Materials Chemistry C*, **2016**, 4, 3581-3591	7.1	54
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431	Photocatalytic and photoelectrochemical studies on N-doped TiO2 photocatalyst. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 202, 39-47	4.7	54
430	Nitrogen-related recombination mechanisms in p-type ZnO films grown by plasma-assisted molecular beam epitaxy. *Journal of Applied Physics*, **2007**, 102, 043522	2.5	54
429	Effects of RF power on properties of ZnO thin films grown on Si (001) substrate by plasma enhanced chemical vapor deposition. *Journal of Crystal Growth*, **2003**, 249, 179-185	1.6	54
428	Composition-controllable p-CuO/n-ZnO hollow nanofibers for high-performance H2S detection. *Sensors and Actuators B: Chemical*, **2019**, 285, 495-503	8.5	53
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424	The synthesis and optical properties of the heterostructured ZnO/Au nanocomposites. *Journal of Colloid and Interface Science*, **2008**, 326, 392-5	9.3	52
423	Interface State-Induced Negative Differential Resistance Observed in Hybrid Perovskite Resistive Switching Memory. *ACS Applied Materials & Interfaces*, **2018**, 10, 21755-21763	9.5	51
422	Memristors with organic-inorganic halide perovskites. *Informa□□Materi□y*, **2019**, 1, 183	23.1	50
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419	Preparation of ZnO colloids by aggregation of the nanocrystal subunits. *Journal of Colloid and Interface Science*, **2005**, 283, 380-4	9.3	50
418	TiO/SrTiO/g-CN ternary heterojunction nanofibers: gradient energy band, cascade charge transfer, enhanced photocatalytic hydrogen evolution, and nitrogen fixation. *Nanoscale*, **2020**, 12, 8320-8329	7.7	49
417	Stretchable and conformable synapse memristors for wearable and implantable electronics. *Nanoscale*, **2018**, 10, 18135-18144	7.7	49
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415	Dandelion-like Fe3O4@CuTNPc hierarchical nanostructures as a magnetically separable visible-light photocatalyst. *Journal of Materials Chemistry*, **2011**, 21, 12083		49
414	Rutile TiO2 nanowires on anatase TiO2 nanofibers: a branched heterostructured photocatalysts via interface-assisted fabrication approach. *Journal of Colloid and Interface Science*, **2011**, 363, 157-64	9.3	48
413	Enhanced waveguide-type ultraviolet electroluminescence from ZnO/MgZnO core/shell nanorod array light-emitting diodes via coupling with Ag nanoparticles localized surface plasmons. *Nanoscale*, **2015**, 7, 1073-80	7.7	47
412	Hollow CuFe2O4/Fe2O3 composite with ultrathin porous shell for acetone detection at ppb levels. *Sensors and Actuators B: Chemical*, **2018**, 258, 436-446	8.5	47
411	One-dimensional nanostructure field-effect sensors for gas detection. *Sensors*, **2014**, 14, 13999-4020	3.8	46
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409	Photocatalytic Reduction of Graphene Oxide-TiO Nanocomposites for Improving Resistive-Switching Memory Behaviors. *Small*, **2018**, 14, e1801325	11	45
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