Hong Liu

List of Publications by Citations

557 papers	26,996 citations	78 h-index	143 g-index
583 ext. papers	31,690 ext. citations	8.9 avg, IF	7.41 L-index

#	Paper	IF	Citations
557	Synthesis of few-layer MoS2 nanosheet-coated TiO2 nanobelt heterostructures for enhanced photocatalytic activities. *Small*, **2013**, 9, 140-7	11	1059
556	Applications of 2D MXenes in energy conversion and storage systems. *Chemical Society Reviews*, **2019**, 48, 72-133	58.5	878
555	Ni3S2 nanorods/Ni foam composite electrode with low overpotential for electrocatalytic oxygen evolution. *Energy and Environmental Science*, **2013**, 6, 2921	35.4	814
554	Recent progress in design, synthesis, and applications of one-dimensional TiO2 nanostructured surface heterostructures: a review. *Chemical Society Reviews*, **2014**, 43, 6920-37	58.5	651
553	One-step synthesis of Ni3S2 nanorod@Ni(OH)2nanosheet core□shell nanostructures on a three-dimensional graphene network for high-performance supercapacitors. *Energy and Environmental Science*, **2013**, 6, 2216-2221	35.4	503
552	A Bi2 WO6 -based hybrid photocatalyst with broad spectrum photocatalytic properties under UV, visible, and near-infrared irradiation. *Advanced Materials*, **2013**, 25, 5075-80	24	467
551	Self-Assembled Copper-Amino Acid Nanoparticles for in Situ Glutathione "AND" HO Sequentially Triggered Chemodynamic Therapy. *Journal of the American Chemical Society*, **2019**, 141, 849-857	16.4	464
550	Ag2O/TiO2 nanobelts heterostructure with enhanced ultraviolet and visible photocatalytic activity. *ACS Applied Materials & Interfaces*, **2010**, 2, 2385-92	9.5	444
549	Hierarchical porous carbon aerogel derived from bagasse for high performance supercapacitor electrode. *Nanoscale*, **2014**, 6, 12120-9	7.7	443
548	Graphene-based nitrogen self-doped hierarchical porous carbon aerogels derived from chitosan for high performance supercapacitors. *Nano Energy*, **2015**, 15, 9-23	17.1	420
547	From UV to near-infrared, WS2 nanosheet: a novel photocatalyst for full solar light spectrum photodegradation. *Advanced Materials*, **2015**, 27, 363-9	24	402
546	Dynamic pressure mapping of personalized handwriting by a flexible sensor matrix based on the mechanoluminescence process. *Advanced Materials*, **2015**, 27, 2324-31	24	353
545	Carbon quantum dots/hydrogenated TiO2 nanobelt heterostructures and their broad spectrum photocatalytic properties under UV, visible, and near-infrared irradiation. *Nano Energy*, **2015**, 11, 419-427	17.1	352
544	Synthesis of CuO nanostructures and their application for nonenzymatic glucose sensing. *Sensors and Actuators B: Chemical*, **2010**, 144, 220-225	8.5	340
543	Enhanced ferroelectric-nanocrystal-based hybrid photocatalysis by ultrasonic-wave-generated piezophototronic effect. *Nano Letters*, **2015**, 15, 2372-9	11.5	308
542	3D Bi2MoO6 Nanosheet/TiO2 Nanobelt Heterostructure: Enhanced Photocatalytic Activities and Photoelectochemistry Performance. *ACS Catalysis*, **2015**, 5, 4530-4536	13.1	295
541	La(OH)3 and La2O3 Nanobelts□Synthesis and Physical Properties. *Advanced Materials*, **2007**, 19, 470-474	24	255

540	Structure, synthesis, and applications of TiO2 nanobelts. *Advanced Materials*, **2015**, 27, 2557-82	24	247
539	Ultrathin N-Doped MoC Nanosheets with Exposed Active Sites as Efficient Electrocatalyst for Hydrogen Evolution Reactions. *ACS Nano*, **2017**, 11, 12509-12518	16.7	238
538	MoO2 nanobelts@nitrogen self-doped MoS2 nanosheets as effective electrocatalysts for hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2014**, 2, 11358	13	232
537	Enhanced photocatalytic performances of CeO2/TiO2 nanobelt heterostructures. *Small*, **2013**, 9, 3864-72	11	231
536	Nanostructured Sheets of Ti?O Nanobelts for Gas Sensing and Antibacterial Applications. *Advanced Functional Materials*, **2008**, 18, 1131-1137	15.6	226
535	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. *ACS Nano*, **2019**, 13, 2520-2525	16.7	218
534	Three-dimensional hierarchical frameworks based on MoS□nanosheets self-assembled on graphene oxide for efficient electrocatalytic hydrogen evolution. *ACS Applied Materials & Interfaces*, **2014**, 6, 21534-40	9.5	209
533	Silver nanoparticle-decorated porous ceramic composite for water treatment. *Journal of Membrane Science*, **2009**, 331, 50-56	9.6	207
532	Paper-based electrochemical sensing platform with integral battery and electrochromic read-out. *Analytical Chemistry*, **2012**, 84, 2528-32	7.8	204
531	Engineering the Absorption and Field Enhancement Properties of Au-TiO2 Nanohybrids via Whispering Gallery Mode Resonances for Photocatalytic Water Splitting. *ACS Nano*, **2016**, 10, 4496-503	16.7	197
530	Flexible Electronics Based on Micro/Nanostructured Paper. *Advanced Materials*, **2018**, 30, e1801588	24	185
529	Composite-hydroxide-mediated approach for the synthesis of nanostructures of complex functional-oxides. *Nano Letters*, **2006**, 6, 1535-40	11.5	183
528	One-dimensional single-crystalline Ti□ based nanostructures: properties, synthesis, modifications and applications. *Journal of Materials Chemistry*, **2010**, 20, 5993		182
527	Self-Powered Electrical Stimulation for Enhancing Neural Differentiation of Mesenchymal Stem Cells on Graphene-Poly(3,4-ethylenedioxythiophene) Hybrid Microfibers. *ACS Nano*, **2016**, 10, 5086-95	16.7	182
526	Enhancement of ethanol vapor sensing of TiO2 nanobelts by surface engineering. *ACS Applied Materials & Interfaces*, **2010**, 2, 3263-9	9.5	171
525	One-step synthesis of CdS nanoparticles/MoS 2 nanosheets heterostructure on porous molybdenum sheet for enhanced photocatalytic H 2 evolution. *Applied Catalysis B: Environmental*, **2017**, 210, 290-296	21.8	166
524	Heterostructures construction on TiO2 nanobelts: A powerful tool for building high-performance photocatalysts. *Applied Catalysis B: Environmental*, **2017**, 202, 620-641	21.8	166
523	Ultrathin MoO 3 nanocrystalsself-assembled on graphene nanosheets via oxygen bonding as supercapacitor electrodes of high capacitance and long cycle life. *Nano Energy*, **2015**, 12, 510-520	17.1	165

522	Structure, Conductivity, and Thermopower of Crystalline Polyaniline Synthesized by the Ultrasonic Irradiation Polymerization Method. *Macromolecules*, **2002**, 35, 9414-9419	5.5	151
521	Sol–gel preparation of transparent zinc oxide films with highly preferential crystal orientation. *Vacuum*, **2004**, 77, 57-62	3.7	147
520	Nanoheterostructures on TiO2 nanobelts achieved by acid hydrothermal method with enhanced photocatalytic and gas sensitive performance. *Journal of Materials Chemistry*, **2011**, 21, 7937		138
519	Enhancing the electrochemical performance of lithium ion batteries using mesoporous Li3V2(PO4)3/C microspheres. *Journal of Materials Chemistry*, **2012**, 22, 5960		137
518	A Photoresponsive Rutile TiO Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. *Advanced Materials*, **2019**, 31, e1806596	24	137
517	Full-Spectrum Solar-Light-Activated Photocatalysts for Light–Chemical Energy Conversion. *Advanced Energy Materials*, **2017**, 7, 1700473	21.8	135
516	Direct synthesis and structure characterization of ultrafine CeO2nanoparticles. *Nanotechnology*, **2006**, 17, 5983-5987	3.4	135
515	Sulfur and nitrogen self-doped carbon nanosheets derived from peanut root nodules as high-efficiency non-metal electrocatalyst for hydrogen evolution reaction. *Nano Energy*, **2015**, 16, 357-366	17.1	125
514	Enhanced catalytic performance by multi-field coupling in KNbO3 nanostructures: Piezo-photocatalytic and ferro-photoelectrochemical effects. *Nano Energy*, **2019**, 58, 695-705	17.1	123
513	Enhanced photocatalytic property of reduced graphene oxide/TiO2 nanobelt surface heterostructures constructed by an in situ photochemical reduction method. *Small*, **2014**, 10, 3775-82	11	119
512	Gold and gold-palladium alloy nanoparticles on heterostructured TiO2 nanobelts as plasmonic photocatalysts for benzyl alcohol oxidation. *Nanoscale*, **2015**, 7, 209-17	7.7	117
511	Few-layered MoS2 nanosheets wrapped ultrafine TiO2 nanobelts with enhanced photocatalytic property. *Nanoscale*, **2016**, 8, 6101-9	7.7	114
510	NiO–TiO2 p–n heterostructured nanocables bridged by zero-bandgap rGO for highly efficient photocatalytic water splitting. *Nano Energy*, **2015**, 16, 207-217	17.1	112
509	Photocatalysis from UV/Vis to Near-Infrared Light: Towards Full Solar-Light Spectrum Activity. *ChemCatChem*, **2015**, 7, 559-573	5.2	108
508	Regulating the vertical phase distribution by fullerene-derivative in high performance ternary organic solar cells. *Nano Energy*, **2018**, 46, 81-90	17.1	108
507	Water Splitting: From Electrode to Green Energy System. *Nano-Micro Letters*, **2020**, 12, 131	19.5	106
506	Nano-p–n junctions on surface-coarsened TiO2 nanobelts with enhanced photocatalytic activity. *Journal of Materials Chemistry*, **2011**, 21, 5106		106
505	Chemical assembly of TiO2 and TiO2@Ag nanoparticles on silk fiber to produce multifunctional fabrics. *Journal of Colloid and Interface Science*, **2011**, 358, 307-15	9.3	106

504	In2S3 nanomaterial as a broadband spectrum photocatalyst to display significant activity. *Applied Catalysis B: Environmental*, **2015**, 176-177, 83-90	21.8	104
503	Ni@NiO Nanowires on Nickel Foam Prepared via "Acid Hungry" Strategy: High Supercapacitor Performance and Robust Electrocatalysts for Water Splitting Reaction. *Small*, **2018**, 14, e1800294	11	103
502	Construction of a 3D rGO-collagen hybrid scaffold for enhancement of the neural differentiation of mesenchymal stem cells. *Nanoscale*, **2016**, 8, 1897-904	7.7	101
501	Phase transformation of TiO2 nanobelts and TiO2(B)/anatase interface heterostructure nanobelts with enhanced photocatalytic activity. *CrystEngComm*, **2011**, 13, 6643	3.3	101
500	Multifunctional Carbon□ilica Nanocapsules with Gold Core for Synergistic Photothermal and Chemo-Cancer Therapy under the Guidance of Bimodal Imaging. *Advanced Functional Materials*, **2016**, 26, 4252-4261	15.6	100
499	Synthesis of scaly Sn3O4/TiO2 nanobelt heterostructures for enhanced UV-visible light photocatalytic activity. *Nanoscale*, **2015**, 7, 3117-25	7.7	98
498	Surface modification and functionalization of silk fibroin fibers/fabric toward high performance applications. *Materials Science and Engineering C*, **2012**, 32, 627-636	8.3	96
497	Synthesis of Bi2Se3 thermoelectric nanosheets and nanotubes through hydrothermal co-reduction method. *Journal of Solid State Chemistry*, **2004**, 177, 4001-4006	3.3	95
496	Hierarchical TiO2 nanowire/graphite fiber photoelectrocatalysis setup powered by a wind-driven nanogenerator: A highly efficient photoelectrocatalytic device entirely based on renewable energy. *Nano Energy*, **2015**, 11, 19-27	17.1	92
495	YAG:Ce nano-sized phosphor particles prepared by a solvothermal method. *Materials Research Bulletin*, **2004**, 39, 1923-1930	5.1	90
494	Molybdenum carbide on hierarchical porous carbon synthesized from Cu-MoO2 as efficient electrocatalysts for electrochemical hydrogen generation. *Nano Energy*, **2017**, 41, 749-757	17.1	88
493	Microenvironment-Driven Bioelimination of Magnetoplasmonic Nanoassemblies and Their Multimodal Imaging-Guided Tumor Photothermal Therapy. *ACS Nano*, **2016**, 10, 7094-105	16.7	88
492	TiO2@Carbon Photocatalysts: The Effect of Carbon Thickness on Catalysis. *ACS Applied Materials & Interfaces*, **2016**, 8, 1903-12	9.5	87
491	Enhanced performance of layered titanate nanowire-based supercapacitor electrodes by nickel ion exchange. *ACS Applied Materials & Interfaces*, **2014**, 6, 4578-86	9.5	87
490	Confined distribution of platinum clusters on MoO2 hexagonal nanosheets with oxygen vacancies as a high-efficiency electrocatalyst for hydrogen evolution reaction. *Nano Energy*, **2019**, 62, 127-135	17.1	86
489	Zinc oxide films prepared by sol□el method. *Journal of Crystal Growth*, **2005**, 275, e943-e946	1.6	84
488	One-Dimensional Ferroelectric Nanostructures: Synthesis, Properties, and Applications. *Advanced Science*, **2016**, 3, 1500358	13.6	84
487	Effects of Graphene Quantum Dots on the Self-Renewal and Differentiation of Mesenchymal Stem Cells. *Advanced Healthcare Materials*, **2016**, 5, 702-10	10.1	83

486	1D Ni-Co oxide and sulfide nanoarray/carbon aerogel hybrid nanostructures for asymmetric supercapacitors with high energy density and excellent cycling stability. *Nanoscale*, **2016**, 8, 16292-16301	7.7	83
485	Ni-Co-N hybrid porous nanosheets on graphene paper for flexible and editable asymmetric all-solid-state supercapacitors. *Nano Energy*, **2019**, 61, 18-26	17.1	79
484	RuRu2PNPC and NPC@RuO2 Synthesized via Environment-Friendly and Solid-Phase Phosphating Process by Saccharomycetes as N/P Sources and Carbon Template for Overall Water Splitting in Acid Electrolyte. *Advanced Functional Materials*, **2019**, 29, 1901154	15.6	78
483	Hydrogenated TiO2 nanobelts as highly efficient photocatalytic organic dye degradation and hydrogen evolution photocatalyst. *Journal of Hazardous Materials*, **2015**, 299, 165-73	12.8	78
482	Flexible wire-like all-carbon supercapacitors based on porous coreshell carbon fibers. *Journal of Materials Chemistry A*, **2014**, 2, 7250-7255	13	78
481	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCo-nitrides Nanoparticle/NiCoO Nanoflake/graphite Fibers. *Advanced Science*, **2019**, 6, 1801829	13.6	78
480	Ultrasensitive Physical, Bio, and Chemical Sensors Derived from 1-, 2-, and 3-D Nanocellulosic Materials. *Small*, **2020**, 16, e1906567	11	78
479	The hybrid nanostructure of MnCo2O4.5 nanoneedle/carbon aerogel for symmetric supercapacitors with high energy density. *Nanoscale*, **2015**, 7, 14401-12	7.7	76
478	Iron oxide embedded titania nanowires An active and stable electrocatalyst for oxygen evolution in acidic media. *Nano Energy*, **2018**, 45, 118-126	17.1	76
477	CobaltCobalt Phosphide Nanoparticles@Nitrogen-Phosphorus Doped Carbon/Graphene Derived from Cobalt Ions Adsorbed Saccharomycete Yeasts as an Efficient, Stable, and Large-Current-Density Electrode for Hydrogen Evolution Reactions. *Advanced Functional Materials*, **2018**, 28, 1801332	15.6	75
476	Preparation of cellulose fiberTiO2 nanobeltsilver nanoparticle hierarchically structured hybrid paper and its photocatalytic and antibacterial properties. *Chemical Engineering Journal*, **2013**, 228, 272-280	14.7	75
475	Polylactic Acid Nanopillar Array-Driven Osteogenic Differentiation of Human Adipose-Derived Stem Cells Determined by Pillar Diameter. *Nano Letters*, **2018**, 18, 2243-2253	11.5	72
474	Lignosulphonate-cellulose derived porous activated carbon for supercapacitor electrode. *Journal of Materials Chemistry A*, **2015**, 3, 15049-15056	13	72
473	Photosensitization of TiO2 nanorods with CdS quantum dots for photovoltaic applications: A wet-chemical approach. *Nano Energy*, **2012**, 1, 440-447	17.1	72
472	Biopolymer/Calcium phosphate scaffolds for bone tissue engineering. *Advanced Healthcare Materials*, **2014**, 3, 469-84	10.1	71
471	Synthesis of monodisperse and spherical YAG nanopowder by a mixed solvothermal method. *Journal of Alloys and Compounds*, **2004**, 372, 300-303	5.7	71
470	Preparation of highly dispersed YAG nano-sized powder by co-precipitation method. *Materials Letters*, **2006**, 60, 962-965	3.3	70
469	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. *Angewandte Chemie - International Edition*, **2019**, 58, 10606-10611	16.4	69

468	Metallic Intermediate Phase Inducing Morphological Transformation in Thermal Nitridation: NiFeN-Based Three-Dimensional Hierarchical Electrocatalyst for Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 3699-3706	9.5	69
467	A 2,7-carbazole-based dicationic salt for fluorescence detection of nucleic acids and two-photon fluorescence imaging of RNA in nucleoli and cytoplasm. *Organic and Biomolecular Chemistry*, **2011**, 9, 3615-8	3.9	68
466	Composite-hydroxide-mediated approach as a general methodology for synthesizing nanostructures. *Journal of Materials Chemistry*, **2009**, 19, 858		68
465	Metallic Ni3Mo3N Porous Microrods with Abundant Catalytic Sites as Efficient Electrocatalyst for Large Current Density and Superstability of Hydrogen Evolution Reaction and Water Splitting. *Applied Catalysis B: Environmental*, **2020**, 272, 118956	21.8	68
464	Core□shell structured Fe3O4/PANI microspheres and their Cr(VI) ion removal properties. *Synthetic Metals*, **2013**, 171, 1-6	3.6	67
463	Fluorescent graphene quantum dots as traceable, pH-sensitive drug delivery systems. *International Journal of Nanomedicine*, **2015**, 10, 6709-24	7.3	67
462	Highly Morphology-Controllable and Highly Sensitive Capacitive Tactile Sensor Based on Epidermis-Dermis-Inspired Interlocked Asymmetric-Nanocone Arrays for Detection of Tiny Pressure. *Small*, **2020**, 16, e1904774	11	67
461	Oxygen-incorporated MoX (X: S, Se or P) nanosheets via universal and controlled electrochemical anodic activation for enhanced hydrogen evolution activity. *Nano Energy*, **2019**, 62, 338-347	17.1	66
460	Bone repair by periodontal ligament stem cellseeded nanohydroxyapatite-chitosan scaffold. *International Journal of Nanomedicine*, **2012**, 7, 5405-14	7.3	66
459	Hierarchical hybrid nanostructures of Sn3O4 on N doped TiO2 nanotubes with enhanced photocatalytic performance. *Journal of Materials Chemistry A*, **2015**, 3, 19129-19136	13	64
458	1319 nm and 1338 nm dual-wavelength operation of LD end-pumped Nd:YAG ceramic laser. *Optics Express*, **2010**, 18, 9098-106	3.3	64
457	Hierarchical microsphere of MoNi porous nanosheets as electrocatalyst and cocatalyst for hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2019**, 249, 98-105	21.8	63
456	In vitro assessment of the differentiation potential of bone marrow-derived mesenchymal stem cells on genipin-chitosan conjugation scaffold with surface hydroxyapatite nanostructure for bone tissue engineering. *Tissue Engineering - Part A*, **2011**, 17, 1341-9	3.9	63
455	Cr(VI), Pb(II), Cd(II) adsorption properties of nanostructured BiOBr microspheres and their application in a continuous filtering removal device for heavy metal ions. *Journal of Materials Chemistry A*, **2014**, 2, 2599	13	62
454	Photoluminescence Origin of Zero-Dimensional Cs4PbBr6 Perovskite. *ACS Energy Letters*, **2020**, 5, 87-99	20.1	62
453	High-Performance Symmetric Supercapacitor Constructed Using Carbon Cloth Boosted by Engineering Oxygen-Containing Functional Groups. *ACS Applied Materials & Interfaces*, **2019**, 11, 18044-18050	9.5	61
452	High-Energy Faceted SnO□Coated TiO□Nanobelt Heterostructure for Near-Ambient Temperature-Responsive Ethanol Sensor. *ACS Applied Materials & Interfaces*, **2015**, 7, 24950-6	9.5	61
451	Microwave-assisted hydrothermal synthesis of Sn3O4 nanosheet/rGO planar heterostructure for efficient photocatalytic hydrogen generation. *Applied Catalysis B: Environmental*, **2018**, 227, 470-476	21.8	61

450	Fabricating high-energy quantum dots in ultra-thin LiFePO4 nanosheets using a multifunctional high-energy biomolecule ATP. *Energy and Environmental Science*, **2014**, 7, 2285-2294	35.4	61
449	High yield production of reduced TiO2 with enhanced photocatalytic activity. *Applied Surface Science*, **2016**, 360, 738-743	6.7	60
448	Conversion of solar power to chemical energy based on carbon nanoparticle modified photo-thermoelectric generator and electrochemical water splitting system. *Nano Energy*, **2018**, 48, 481-488	17.1	59
447	Graphene Nanostructure-Based Tactile Sensors for Electronic Skin Applications. *Nano-Micro Letters*, **2019**, 11, 71	19.5	58
446	Tunable Layered (Na,Mn)VO HO Cathode Material for High-Performance Aqueous Zinc Ion Batteries. *Advanced Science*, **2020**, 7, 2000083	13.6	57
445	Surface charge regulation of osteogenic differentiation of mesenchymal stem cell on polarized ferroelectric crystal substrate. *Advanced Healthcare Materials*, **2015**, 4, 998-1003	10.1	56
444	Carbon-nanosphere-supported Pt nanoparticles for methanol and ethanol electro-oxidation in alkaline media. *Journal of Power Sources*, **2011**, 196, 1904-1908	8.9	56
443	Preparation and properties of YAG nano-sized powder from different precipitating agent. *Optical Materials*, **2004**, 25, 407-412	3.3	55
442	Hierarchical porous carbon with ordered straight micro-channels templated by continuous filament glass fiber arrays for high performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 1516-1525	13	54
441	Enhanced gas sensing property of SnO2 nanoparticles by constructing the SnO2 TiO2 nanobelt heterostructure. *Journal of Alloys and Compounds*, **2015**, 639, 571-576	5.7	54
440	Partial Nitridation-Induced Electrochemistry Enhancement of Ternary Oxide Nanosheets for Fiber Energy Storage Device. *Advanced Energy Materials*, **2018**, 8, 1800685	21.8	54
439	Pt nanoparticles supported on submicrometer-sized TiO2 spheres for effective methanol and ethanol oxidation. *Electrochimica Acta*, **2013**, 105, 130-136	6.7	54
438	BaTiO3 nanocrystal-mediated micro pseudo-electrochemical cells with ultrasound-driven piezotronic enhancement for polymerization. *Nano Energy*, **2017**, 39, 461-469	17.1	54
437	Preparation of YAG:Nd nano-sized powder by co-precipitation method. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 379, 347-350	5.3	54
436	Ni-Ni3P nanoparticles embedded into N, P-doped carbon on 3D graphene frameworks via in situ phosphatization of saccharomycetes with multifunctional electrodes for electrocatalytic hydrogen production and anodic degradation. *Applied Catalysis B: Environmental*, **2020**, 261, 118147	21.8	54
435	Synthesis of Monodispersed Spherical Yttrium Aluminum Garnet (YAG) Powders by a Homogeneous Precipitation Method. *Journal of the American Ceramic Society*, **2012**, 95, 3821-3826	3.8	53
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431	Nanopaper based on Ag/TiO2 nanobelts heterostructure for continuous-flow photocatalytic treatment of liquid and gas phase pollutants. *Journal of Hazardous Materials*, **2011**, 197, 19-25	12.8	52
430	Interface dominated high photocatalytic properties of electrostatic self-assembled Ag(2)O/TiO(2) heterostructure. *Physical Chemistry Chemical Physics*, **2010**, 12, 15119-23	3.6	52
429	Synthesis of Nd3+ doped nano-crystalline yttrium aluminum garnet (YAG) powders leading to transparent ceramic. *Optical Materials*, **2007**, 29, 528-531	3.3	52
428	Growth of Yb:YAl3(BO3)4 crystals and their optical and self-frequency-doubling properties. *Journal of Crystal Growth*, **2001**, 233, 248-252	1.6	51
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425	Building Ag nanoparticle 3D catalyst via Na2Ti3O7 nanowires for the detection of hydrogen peroxide. *Sensors and Actuators B: Chemical*, **2010**, 144, 289-294	8.5	50
424	Production of Nanosized YAG Powders with Spherical Morphology and Nonaggregation via a Solvothermal Method. *Journal of the American Ceramic Society*, **2004**, 87, 2288-2290	3.8	50
423	Manipulation of charge transfer in vertically aligned epitaxial ferroelectric KNbO3 nanowire array photoelectrodes. *Nano Energy*, **2017**, 35, 92-100	17.1	49
422	WSe2 2D p-type semiconductor-based electronic devices for information technology: Design, preparation, and applications. *InformaDD Materily*, **2020**, 2, 656-697	23.1	49
421	One-step synthesis of ultrathin nanobelts-assembled urchin-like anatase TiO2 nanostructures for highly efficient photocatalysis. *CrystEngComm*, **2017**, 19, 129-136	3.3	49
420	High-performance TiO(2) from Baker's yeast. *Journal of Colloid and Interface Science*, **2011**, 354, 109-15	9.3	49
419	Growth and investigation of a new nonlinear optical crystal: bismuth borate BiB3O6. *Journal of Crystal Growth*, **2001**, 224, 280-283	1.6	49
418	TiO2 Nanorod Array Constructed Nanotopography for Regulation of Mesenchymal Stem Cells Fate and the Realization of Location-Committed Stem Cell Differentiation. *Small*, **2016**, 12, 1770-8	11	48
417	RuO2/TiO2 nanobelt heterostructures with enhanced photocatalytic activity and gas-phase selective oxidation of benzyl alcohol. *Solar Energy Materials and Solar Cells*, **2016**, 151, 7-13	6.4	48
416	In Vivo Tumor Visualization through MRI Off-On Switching of NaGdF -CaCO Nanoconjugates. *Advanced Materials*, **2019**, 31, e1901851	24	48
415	PdO/TiO2 and Pd/TiO2 heterostructured nanobelts with enhanced photocatalytic activity. *Chemistry - an Asian Journal*, **2014**, 9, 1648-54	4.5	48

414	A high performance quasi-solid-state self-powered UV photodetector based on TiO2 nanorod arrays. *Nanoscale*, **2014**, 6, 9116-21	7.7	48
413	Chemical assembly of silver nanoparticles on stainless steel for antimicrobial applications. *Surface and Coatings Technology*, **2010**, 204, 3871-3875	4.4	48
412	Tailoring the ruthenium reactive sites on N doped molybdenum carbide nanosheets via the anti-Ostwald ripening as efficient electrocatalyst for hydrogen evolution reaction in alkaline media. *Applied Catalysis B: Environmental*, **2020**, 277, 119236	21.8	47
411	Carbodiimide crosslinked collagen from porcine dermal matrix for high-strength tissue engineering scaffold. *International Journal of Biological Macromolecules*, **2013**, 61, 69-74	7.9	47
410	UV-visible-light-activated photocatalysts based on Bi2O3/Bi4Ti3O12/TiO2 double-heterostructured TiO2 nanobelts. *Journal of Materials Chemistry*, **2012**, 22, 23395		47
409	Rutile Nanorod/Anatase Nanowire Junction Array as Both Sensor and Power Supplier for High-Performance, Self-Powered, Wireless UV Photodetector. *Small*, **2016**, 12, 2759-67	11	47
408	A simple gas sensor based on zinc ferrite hollow spheres: Highly sensitivity, excellent selectivity and long-term stability. *Sensors and Actuators B: Chemical*, **2019**, 280, 34-40	8.5	47
407	In situ construction of a titanate□silver nanoparticle□titanate sandwich nanostructure on a metallic titanium surface for bacteriostatic and biocompatible implants. *Journal of Materials Chemistry*, **2012**, 22, 19151		46
406	Killing two birds with one stone: To eliminate the toxicity and enhance the photocatalytic property of CdS nanobelts by assembling ultrafine TiO2 nanowires on them. *Solar Energy Materials and Solar Cells*, **2018**, 183, 41-47	6.4	44
405	Rapid synthesis of YAG nano-sized powders by a novel method. *Materials Letters*, **2004**, 58, 2377-2380	3.3	44
404	Bioactivity of periodontal ligament stem cells on sodium titanate coated with graphene oxide. *Scientific Reports*, **2016**, 6, 19343	4.9	44
403	Efficient photo-electrochemical water splitting based on hematite nanorods doped with phosphorus. *Applied Catalysis B: Environmental*, **2019**, 248, 388-393	21.8	43
402	MoSe nanosheet/MoO nanobelt/carbon nanotube membrane as flexible and multifunctional electrodes for full water splitting in acidic electrolyte. *Nanoscale*, **2018**, 10, 9268-9275	7.7	43
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