Shuijin Lei

List of Publications by Year in Descending Order

100 papers	2,530 citations	30 h-index	45 g-index
107 ext. papers	2,917 ext. citations	6.3 avg, IF	5.02 L-index

#	Paper	IF	Citations
100	Revealing the synergistic mechanism of multiply nanostructured VO hollow nanospheres integrated with doped N, Ni heteroatoms, in-situ grown carbon nanotubes and coated carbon nanolayers for the enhancement of lithium-sulfur batteries.. *Journal of Colloid and Interface Science*, **2022**, 612, 760-771	9.3	1
99	Self-supported electrode based on two-dimensional NiPS for supercapacitor application.. *Journal of Colloid and Interface Science*, **2022**, 616, 401-412	9.3	1
98	Unique multi-hierarchical Z-scheme heterojunction of branching SnIn4S8 nanosheets on ZnIn2S4 nanopetals for boosted photocatalytic performance. *Separation and Purification Technology*, **2022**, 121267	8.3	0
97	Pore regulation of well-developed honeycomb-like carbon materials from Zizania latifolia for supercapacitors. *Journal of Energy Storage*, **2022**, 52, 104910	7.8	2
96	Spatially distributed Z-scheme heterojunction of g-C3N4/SnIn4S8 for enhanced photocatalytic hydrogen production and pollutant degradation. *Applied Surface Science*, **2022**, 598, 153870	6.7	0
95	An individual sandwich hybrid nanostructure of cobalt disulfide in-situ grown on N doped carbon layer wrapped on multi-walled carbon nanotubes for high-efficiency lithium sulfur batteries. *Journal of Colloid and Interface Science*, **2021**,	9.3	2
94	Giant Piezoresistive Effect of CdS@C Hybrid Nanobelts for Volatile Real-Time Sensor and Erasable Nonvolatile Memory to Stress. *ACS Applied Materials & Interfaces*, **2021**, 13, 22785-22795	9.5	
93	BiSI nanorods: a new candidate for photothermal therapy in the first and second biological near-infrared windows. *Nanoscale*, **2021**, 13, 5369-5382	7.7	3
92	Phase-controlled growth of nickel hydroxide nanostructures on nickel foam for enhanced supercapacitor performance. *Journal of Energy Storage*, **2021**, 43, 103171	7.8	6
91	Isomorphous Substitution Synthesis and Photoelectric Properties of Spinel AgInSnS4 Nanosheets. *Chemistry of Materials*, **2020**, 32, 9713-9720	9.6	5
90	MOF-derived NiCo2S4@C as a separator modification material for high-performance lithium-sulfur batteries. *Electrochimica Acta*, **2020**, 344, 135811	6.7	19
89	Preparation of quinary CuNi Zn2InS4 nanocrystals with wurtzite structure and tunable band gap. *Journal of Alloys and Compounds*, **2020**, 820, 153436	5.7	4
88	Solution Growth of BiSI Nanorod Arrays on a Tungsten Substrate for Solar Cell Application. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13488-13496	8.3	6
87	Photoflexoelectric effect in halide perovskites. *Nature Materials*, **2020**, 19, 605-609	27	64
86	Nickel formate induced high-level in situ Ni-doping of g-C3N4 for a tunable band structure and enhanced photocatalytic performance. *Journal of Materials Chemistry A*, **2019**, 7, 22385-22397	13	54
85	High electrical conductivity-induced enhancement effect of electrochemical performance in mesoporous NiCo2S4 nanorod-based supercapacitor. *Journal of Energy Storage*, **2019**, 26, 100955	7.8	10
84	Tunable hysteresis behaviour related to trap filling dependence of surface barrier in an individual CHNHPbI micro/nanowire. *Nanoscale*, **2019**, 11, 3360-3369	7.7	14

83	Ultrahigh stress response and storage properties in a single CdS nanobelt-based flexible device for an erasable nonvolatile stress sensing and memory effect. *Journal of Materials Chemistry C*, **2019**, 7, 7654-7663	7.1	3
82	Silkworm Excrement Derived In-situ Co-doped Nanoporous Carbon as Confining Sulfur Host for Lithium Sulfur Batteries. *ChemistrySelect*, **2019**, 4, 5678-5685	1.8	3
81	Controllable switching properties in an individual CH3NH3PbI3 micro/nanowire-based transistor for gate voltage and illumination dual-driving non-volatile memory. *Journal of Materials Chemistry C*, **2019**, 7, 4259-4266	7.1	14
80	Bias-Controlled Tunable Electronic Transport with Memory Characteristics in an Individual ZnO Nanowire for Realization of a Self-Driven UV Photodetector with Two Symmetrical Electrodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 14932-14943	9.5	15
79	Wurtzite CuNiInS Nanocrystals: A Quaternary Chalcogenide Magnetic Semiconductor. *Inorganic Chemistry*, **2019**, 58, 15283-15290	5.1	1
78	Trap-Related Nonvolatile Negative Photoconductivity in a Single Ag@Al2O3 Hybrid Nanorod for a Photomemory with Light-Writing and Bias-Erasing. *Advanced Optical Materials*, **2019**, 7, 1901154	8.1	9
77	Back-to-back Interface diodes induced symmetrical negative differential resistance and reversible bipolar resistive switching in CuSCN trigonal pyramid micro/nanoarray. *Applied Surface Science*, **2019**, 480, 13-25	6.7	3
76	Erasable memory properties of spectral selectivity modulated by temperature and bias in an individual CdS nanobelt-based photodetector. *Nanoscale Horizons*, **2019**, 4, 138-147	10.8	13
75	Tetra-heteroatom self-doped carbon nanosheets derived from silkworm excrement for high-performance supercapacitors. *Journal of Power Sources*, **2018**, 379, 74-83	8.9	69
74	Fabrication of BiSI nanorod cluster films for enhanced photodetection performance. *Dalton Transactions*, **2018**, 47, 3408-3416	4.3	9
73	Bias-switchable negative and positive photoconductivity in 2D FePS ultraviolet photodetectors. *Nanotechnology*, **2018**, 29, 244001	3.4	45
72	Conversion of biomass waste to multi-heteroatom-doped carbon networks with high surface area and hierarchical porosity for advanced supercapacitors. *Journal of Materials Science*, **2018**, 53, 14536-14547	4.3	33
71	Hydrothermal growth of ferrous hydroxide terephthalate as a new positive electrode material for supercapacitors. *Dalton Transactions*, **2018**, 47, 12056-12060	4.3	
70	Light-Induced Anomalous Resistive Switches Based on Individual Organic–Inorganic Halide Perovskite Micro-/Nanofibers. *Advanced Electronic Materials*, **2018**, 4, 1800206	6.4	15
69	Reversible Negative Resistive Switching in an Individual Fe@AlO Hybrid Nanotube for Nonvolatile Memory. *ACS Applied Materials & Interfaces*, **2018**, 10, 19002-19009	9.5	7
68	Terephthalate-based cobalt hydroxide: a new electrode material for supercapacitors with ultrahigh capacitance. *Dalton Transactions*, **2018**, 47, 14958-14967	4.3	28
67	From weed to multi-heteroatom-doped honeycomb-like porous carbon for advanced supercapacitors: A gelatinization-controlled one-step carbonization. *Journal of Power Sources*, **2018**, 402, 203-212	8.9	56
66	Enhanced visible light catalysis activity of CdS-sheathed SrAlO:Eu,Dy nanocomposites. *Dalton Transactions*, **2018**, 47, 7941-7948	4.3	6

65	A surface state-controlled, high-performance, self-powered photovoltaic detector based on an individual SnS nanorod with a symmetrical electrode structure. *Journal of Materials Chemistry C*, **2018**, 6, 9071-9080	7.1	15
64	A novel fluffy nanostructured 3D network of Ni(C7H4O5) for supercapacitors. *Electrochimica Acta*, **2017**, 230, 141-150	6.7	1
63	Rewritable non-volatile stress information memory by bulk trap-induced giant piezoresistance effect in individual PbS micro/nanowires. *Journal of Materials Chemistry C*, **2017**, 5, 229-237	7.1	11
62	A Hierarchically Porous Hollow Structure of Layered Bi2TiO4F2 for Efficient Photocatalysis. *European Journal of Inorganic Chemistry*, **2017**, 2017, 1892-1899	2.3	7
61	Large flexoelectricity in Al2O3-doped Ba(Ti0.85Sn0.15)O3 ceramics. *Applied Physics Letters*, **2017**, 110, 192903	3.4	19
60	A new low-temperature solution route to Aurivillius-type layered oxyfluoride perovskites Bi2MO5F (M = Nb, Ta) as photocatalysts. *Applied Catalysis B: Environmental*, **2017**, 205, 112-120	21.8	18
59	Direct growth of nickel terephthalate on Ni foam with large mass-loading for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 19323-19332	13	48
58	Commercial Dacron cloth supported Cu(OH)2 nanobelt arrays for wearable supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 14781-14788	13	62
57	Surface state controlled ultrahigh selectivity and sensitivity for UV photodetectors based on individual SnO2 nanowires. *Journal of Materials Chemistry C*, **2016**, 4, 8399-8406	7.1	32
56	Direct TEM observations of growth mechanisms of two-dimensional MoS2 flakes. *Nature Communications*, **2016**, 7, 12206	17.4	147
55	Gate-Free Controlled Multibit Memories Based on Individual ZnO:In Micro/Nanowire Back-to-Back Diodes. *Advanced Electronic Materials*, **2016**, 2, 1500395	6.4	7
54	One-pot synthesis of □Fe 2 O 3 nanoplates-reduced graphene oxide composites for supercapacitor application. *Chemical Engineering Journal*, **2016**, 286, 165-173	14.7	137
53	Enhanced Giant Piezoresistance Performance of Sandwiched ZnS/Si/SiO Radial Heterostructure Nanotubes for Nonvolatile Stress Memory with Repeatable Writing and Erasing. *ACS Applied Materials & Interfaces*, **2016**, 8, 34648-34658	9.5	8
52	A novel approach to prepare a tissue engineering decellularized valve scaffold with poly(ethylene glycol)□poly(□caprolactone). *RSC Advances*, **2016**, 6, 14427-14438	3.7	5
51	One-pot synthesis of □MnS/nitrogen-doped reduced graphene oxide hybrid for high-performance asymmetric supercapacitors. *Electrochimica Acta*, **2016**, 210, 557-566	6.7	96
50	Carbon-encapsulated CdSe quantum dot inorganic hybrid nanobelts for high performance photoelectronic devices based on the efficient separation and transfer of photoinduced holes. *Journal of Materials Chemistry C*, **2015**, 3, 2471-2478	7.1	9
49	Space charge polarization-induced symmetrical negative resistive switching in individual p-type GeSe2:Bi superstructure nanobelts for non-volatile memory. *Journal of Materials Chemistry C*, **2015**, 3, 5207-5213	7.1	17
48	PMMA interlayer-modulated memory effects by space charge polarization in resistive switching based on CuSCN-nanopyramids/ZnO-nanorods p-n heterojunction. *Scientific Reports*, **2015**, 5, 17859	4.9	26

47	Ultrahigh performance negative thermal-resistance switching based on individual ZnO:K, Cl micro/nanowires for multibit nonvolatile resistance random access memory dual-written/erased repeatedly by temperature or bias. *Journal of Materials Chemistry C*, **2015**, 3, 12220-12229	7.1	7
46	Hierarchical BiF3Bi2NbO5F CoreShell Structure and Its Application in the Photosensitized Degradation of Rhodamine B under Visible Light Irradiation. *Journal of Physical Chemistry C*, **2015**, 119, 502-511	3.8	16
45	A facile in situ reduction route for preparation of spinel CoCr2O4 polycrystalline nanosheets and their magnetic properties. *CrystEngComm*, **2014**, 16, 277-286	3.3	18
44	Synthesis and magnetic properties of MNb2O6 (M = Fe, Co, Ni) nanoparticles. *RSC Advances*, **2014**, 4, 52740-52748	3.7	12
43	Effects of interface states on photoexcited carriers in ZnO/Zn(2)SnO(4) type-II radial heterostructure nanowires. *ACS Applied Materials & Interfaces*, **2014**, 6, 4057-62	9.5	21
42	Preparation and magnetic and microwave absorption properties of MnNb2O6 ellipsoid-like hierarchical structures. *CrystEngComm*, **2014**, 16, 7949-7955	3.3	9
41	Individual Ohmic contacted ZnO/Zn2SnO4 radial heterostructured nanowires as photodetectors with a broad-spectral-response: injection of electrons into/from interface states. *Journal of Materials Chemistry C*, **2014**, 2, 1808	7.1	28
40	Enhanced orange emission of ZnS/SiOx core/shell heterostructure nanospheres synthesized via a facile one-step thermal evaporation method. *Journal of Alloys and Compounds*, **2014**, 614, 60-62	5.7	1
39	The ferromagneticantiferromagnetic properties of NiCr2O3 composite hollow spheres prepared by an in situ reduction method. *CrystEngComm*, **2014**, 16, 1322-1333	3.3	11
38	Modulation of surface trap induced resistive switching by electrode annealing in individual PbS micro/nanowire-based devices for resistance random access memory. *ACS Applied Materials & Interfaces*, **2014**, 6, 20812-8	9.5	16
37	Spinel Indium Sulfide Precursor for the Phase-Selective Synthesis of CuInS2 Nanocrystals with Zinc-Blende, Wurtzite, and Spinel Structures. *Chemistry of Materials*, **2013**, 25, 2991-2997	9.6	52
36	Fabrication of hollow-sphere films of wurtzite CuInS2 on copper substrate. *Materials Chemistry and Physics*, **2013**, 143, 195-202	4.4	6
35	General synthesis of rare-earth orthochromites with quasi-hollow nanostructures and their magnetic properties. *Journal of Materials Chemistry A*, **2013**, 1, 11982	13	47
34	Porous ZnAl2O4 spinel nanorods: High sensitivity humidity sensors. *Ceramics International*, **2013**, 39, 7379-7386	5.1	42
33	Individual ZnO nanowires for photodetectors with wide response range from solar-blind ultraviolet to near-infrared modulated by bias voltage and illumination intensity. *Optics Express*, **2013**, 21, 29719-30	3.3	26
32	Individual Zn2SnO4-sheathed ZnO heterostructure nanowires for efficient resistive switching memory controlled by interface states. *Scientific Reports*, **2013**, 3, 3249	4.9	24
31	Self-template formation and properties study of Cr2O3 nanoparticle tubes. *Journal of Materials Chemistry*, **2012**, 22, 1643-1651		26
30	SrAlxOy:Eu2+, Dy3+ (x = 4) nanostructures: Structure and morphology transformations and long-lasting phosphorescence properties. *CrystEngComm*, **2011**, 13, 3545	3.3	27

29	Highly sensitive humidity sensor based on amorphous Al2O3 nanotubes. *Journal of Materials Chemistry*, **2011**, 21, 1907-1912		111
28	Novel detached system to MnCO3 nanowires: A self-sacrificing template for homomorphous Mn3O4 and Mn2O3 nanostructures. *Materials Chemistry and Physics*, **2011**, 125, 405-410	4.4	18
27	Growth and lattice dynamics of single-crystalline SnO2 nanowires prepared by annealing a gel precursor. *Materials Chemistry and Physics*, **2011**, 129, 713-717	4.4	11
26	Controlled fabrication of SrMoO4 hierarchical nanosheets in a surfactant-assisted nonaqueous system. *Materials Research Bulletin*, **2011**, 46, 601-608	5.1	20
25	BaAl2O4:Eu2+, Dy3+ Nanotube Synthesis by Heating Conversion of Homogeneous Coprecipitates and Afterglow Characteristics. *Journal of Physical Chemistry C*, **2011**, 115, 1708-1713	3.8	40
24	SrAl2O4:Eu2+,Dy3+ nanobelts: Synthesis by combustion and properties of long-persistent phosphorescence. *Journal of Materials Research*, **2011**, 26, 2311-2315	2.5	16
23	Trapping states in CdS:Eu nanobelts studied by excitation-dependent photoluminescence. *Journal of Applied Physics*, **2010**, 108, 014309	2.5	14
22	Lattice variation and Raman spectroscopy in hierarchical heterostructures of zinc antimonate nanoislands on ZnO nanobelts. *Nanotechnology*, **2010**, 21, 025704	3.4	9
21	Power- and energy-dependent photoluminescence of Eu3+ incorporated and segregated ZnO polycrystalline nanobelts synthesized by a facile combustion method followed by heat treatment. *Journal of Materials Chemistry*, **2010**, 20, 7821		30
20	Disorder-induced Raman scattering effects in one-dimensional ZnO nanostructures by incorporation and anisotropic distribution of Dy and Li codopants. *Journal of Raman Spectroscopy*, **2010**, 41, 1221-1226	2.3	32
19	Synthesis and morphological control of MnCO3 and Mn(OH)2 by a complex homogeneous precipitation method. *Materials Chemistry and Physics*, **2009**, 113, 445-450	4.4	30
18	Preparation of Mn2SnO4 nanoparticles as the anode material for lithium secondary battery. *Materials Research Bulletin*, **2009**, 44, 393-397	5.1	33
17	Ordered Zinc Antimonate Nanoisland Attachment and Morphology Control of ZnO Nanobelts by Sb Doping. *Journal of Physical Chemistry C*, **2009**, 113, 9638-9643	3.8	15
16	Long-persistent phosphorescent SrAl2O4:Eu2+, Dy3+ nanotubes. *Chemical Communications*, **2009**, 944-6	5.8	39
15	One-step synthesis of colloidal Mn3O4 and Fe2O3 nanoparticles at room temperature. *Journal of Nanoparticle Research*, **2007**, 9, 833-840	2.3	10
14	Growth of tin dioxide nanobelts via Au-catalytic VLS process. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 4567-70	1.3	
13	Preparation of aligned MnV2O6 nanorods and their anodic performance for lithium secondary battery use. *Nanotechnology*, **2007**, 18, 175605	3.4	42
12	Preparation of manganese indium sulfide urchins in aqueous solution-immiscible organic solvent. *Materials Research Bulletin*, **2006**, 41, 2325-2333	5.1	14

11	Preparation of Mn2O3 and MnO from thermal decomposition of MnCO3 and control of morphology. *Materials Letters*, **2006**, 60, 53-56	3.3	67
10	Oriented attachment growth of LaMn2O5+ nanorods. *Materials Letters*, **2006**, 60, 1347-1349	3.3	10
9	Solvothermal synthesis of MnSe uniform nanospheres and nanorods. *Materials Letters*, **2006**, 60, 1625-1628	3.3	19
8	Self-assembled ZnO 3D flowerlike nanostructures. *Materials Letters*, **2006**, 60, 2530-2533	3.3	58
7	A Self-Sacrificing Template Route to Spinel MIIIn2S4 (MII = Mn, Zn, Cd, Fe, Co, Ni) and MIIn5S8 (MI = Cu, Ag) Porous Microspheres. *European Journal of Inorganic Chemistry*, **2006**, 2006, 2406-2410	2.3	16
6	CTAB-assisted hydrothermal synthesis of Ag/C nanostructures. *Nanotechnology*, **2006**, 17, 3008-3011	3.4	42
5	Ultrasonic-Assisted Synthesis of Colloidal Mn3O4 Nanoparticles at Normal Temperature and Pressure. *Crystal Growth and Design*, **2006**, 6, 1757-1760	3.5	71
4	Preparation of manganese molybdate rods and hollow olive-like spheres. *Journal of Materials Science*, **2006**, 41, 4737-4743	4.3	21
3	Solvothermal Synthesis of Metastable MnS Hollow Spheres and Control of Their Phase. *European Journal of Inorganic Chemistry*, **2005**, 2005, 4124-4128	2.3	41
2	Synthesis of MnWO(4) nanofibres by a surfactant-assisted complexation-precipitation approach and control of morphology. *Nanotechnology*, **2005**, 16, 2407-11	3.4	41
1	Microwave-assisted polyol synthesis of nanoscale SnSx (x=1, 2) flakes. *Journal of Crystal Growth*, **2004**, 260, 469-474	1.6	81