Changyong Lan

List of Publications by Citations

69 papers	2,361 citations	23 h-index	47 g-index
75 ext. papers	2,895 ext. citations	7.1 avg, IF	5.38 L-index

#	Paper	IF	Citations
69	Ultrafast erbium-doped fiber laser mode-locked by a CVD-grown molybdenum disulfide (MoS2) saturable absorber. *Optics Express*, **2014**, 22, 17341-8	3.3	240
68	Transparent, flexible, and stretchable WS based humidity sensors for electronic skin. *Nanoscale*, **2017**, 9, 6246-6253	7.7	208
67	Large-area synthesis of monolayer WS and its ambient-sensitive photo-detecting performance. *Nanoscale*, **2015**, 7, 5974-80	7.7	172
66	Wafer-scale synthesis of monolayer WS2 for high-performance flexible photodetectors by enhanced chemical vapor deposition. *Nano Research*, **2018**, 11, 3371-3384	10	118
65	High-Index Faceted Porous CoO Nanosheets with Oxygen Vacancies for Highly Efficient Water Oxidation. *ACS Applied Materials & Interfaces*, **2018**, 10, 7079-7086	9.5	117
64	Magnetic properties of La and (La, Zr) doped BiFeO3 ceramics. *Journal of Materials Science*, **2011**, 46, 734-738	4.3	98
63	Passively Q -Switched Erbium-Doped Fiber Laser Based on Few-Layer MoS2 Saturable Absorber. *IEEE Photonics Technology Letters*, **2015**, 27, 69-72	2.2	95
62	Two-dimensional perovskite materials: From synthesis to energy-related applications. *Materials Today Energy*, **2019**, 11, 61-82	7	93
61	Synthesis of single-crystalline GeS nanoribbons for high sensitivity visible-light photodetectors. *Journal of Materials Chemistry C*, **2015**, 3, 8074-8079	7.1	82
60	Highly responsive and broadband photodetectors based on WS2 graphene van der Waals epitaxial heterostructures. *Journal of Materials Chemistry C*, **2017**, 5, 1494-1500	7.1	79
59	Large-Scale Synthesis of Freestanding Layer-Structured PbI and MAPbI Nanosheets for High-Performance Photodetection. *Advanced Materials*, **2017**, 29, 1702759	24	78
58	Zener Tunneling and Photoresponse of a WS2/Si van der Waals Heterojunction. *ACS Applied Materials & Interfaces*, **2016**, 8, 18375-82	9.5	73
57	Direct Vapor-Liquid-Solid Synthesis of All-Inorganic Perovskite Nanowires for High-Performance Electronics and Optoelectronics. *ACS Nano*, **2019**, 13, 6060-6070	16.7	63
56	Reactive Sputter Deposition of WO3/Ag/WO3 Film for Indium Tin Oxide (ITO)-Free Electrochromic Devices. *ACS Applied Materials & Interfaces*, **2016**, 8, 3861-7	9.5	58
55	Novel Series of Quasi-2D Ruddlesden-Popper Perovskites Based on Short-Chained Spacer Cation for Enhanced Photodetection. *ACS Applied Materials & Interfaces*, **2018**, 10, 19019-19026	9.5	58
54	Ultra-fast photodetectors based on high-mobility indium gallium antimonide nanowires. *Nature Communications*, **2019**, 10, 1664	17.4	39
53	Few-layer MoS_2 grown by chemical vapor deposition as a passive Q-switcher for tunable erbium-doped fiber lasers. *Photonics Research*, **2015**, 3, A92	6	39

52	A unique sandwich structure of a CoMnP/Ni2P/NiFe electrocatalyst for highly efficient overall water splitting. *Journal of Materials Chemistry A*, **2019**, 7, 12325-12332	13	38
51	ZnO□WS2 heterostructures for enhanced ultra-violet photodetectors. *RSC Advances*, **2016**, 6, 67520-67524	3.7	38
50	Transparent metal-oxide nanowires and their applications in harsh electronics. *Journal of Materials Chemistry C*, **2019**, 7, 202-217	7.1	37
49	Engineering Surface Structure of Spinel Oxides via High-Valent Vanadium Doping for Remarkably Enhanced Electrocatalytic Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2019**, 11, 33012-33021	9.5	36
48	2D materials beyond graphene toward Si integrated infrared optoelectronic devices. *Nanoscale*, **2020**, 12, 11784-11807	7.7	34
47	High Performance Van der Waals Graphene□WS2□Si Heterostructure Photodetector. *Advanced Materials Interfaces*, **2019**, 6, 1901304	4.6	26
46	Incorporating mixed cations in quasi-2D perovskites for high-performance and flexible photodetectors. *Nanoscale Horizons*, **2019**, 4, 1342-1352	10.8	23
45	Nonpolar-Oriented Wurtzite InP Nanowires with Electron Mobility Approaching the Theoretical Limit. *ACS Nano*, **2018**, 12, 10410-10418	16.7	22
44	Artificial visual systems enabled by quasi-two-dimensional electron gases in oxide superlattice nanowires. *Science Advances*, **2020**, 6,	14.3	21
43	Synthesis of large-area uniform MoS 2 films by substrate-moving atmospheric pressure chemical vapor deposition: from monolayer to multilayer. *2D Materials*, **2019**, 6, 025030	5.9	20
42	Graphene/WS heterostructure saturable absorbers for ultrashort pulse generation in L-band passively mode-locked fiber lasers. *Optics Express*, **2020**, 28, 11514-11523	3.3	20
41	High-Performance Transparent Ultraviolet Photodetectors Based on InGaZnO Superlattice Nanowire Arrays. *ACS Nano*, **2019**, 13, 12042-12051	16.7	19
40	Controlled synthesis of ZnS nanocombs by self-evaporation using ZnS nanobelts as source and substrates. *CrystEngComm*, **2012**, 14, 708-712	3.3	18
39	Effect of Gd-doping on electrochromic properties of sputter deposited WO3 films. *Journal of Alloys and Compounds*, **2018**, 739, 623-631	5.7	17
38	Effect of thermal annealing on the performance of WO 3 □Ag□WO 3 transparent conductive film. *Thin Solid Films*, **2014**, 571, 134-138	2.2	17
37	Direct Visualization of Grain Boundaries in 2D Monolayer WS2 via Induced Growth of CdS Nanoparticle Chains. *Small Methods*, **2019**, 3, 1800245	12.8	17
36	2D WS2: From Vapor Phase Synthesis to Device Applications. *Advanced Electronic Materials*, **2021**, 7, 2000688	6.2	16
35	Towards high-mobility In2xGa2□xO3 nanowire field-effect transistors. *Nano Research*, **2018**, 11, 5935-5945	10	15

34	Van der Waals PdSe2/WS2 Heterostructures for Robust High-Performance Broadband Photodetection from Visible to Infrared Optical Communication Band. *Advanced Optical Materials*, **2021**, 9, 2001991	8.1	15
33	Synthesis of K6Ta10.8O30 nanowires by molten salt technique. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 679-683	3.1	14
32	Enhanced Negative Photoconductivity in InAs Nanowire Phototransistors Surface-Modified with Molecular Monolayers. *Advanced Materials Interfaces*, **2018**, 5, 1701104	4.6	14
31	Utilizing a NaOH Promoter to Achieve Large Single-Domain Monolayer WS Films via Modified Chemical Vapor Deposition. *ACS Applied Materials & Interfaces*, **2019**, 11, 35238-35246	9.5	11
30	Synthesis and photoluminescence properties of string-like ZnO/SnO nanowire/nanosheet nano-heterostructures. *Journal of Alloys and Compounds*, **2013**, 575, 24-28	5.7	11
29	Synthesis and magnetic properties of single-crystalline Na2-xMn8O16 nanorods. *Nanoscale Research Letters*, **2011**, 6, 133	5	11
28	Crystalline InGaZnO quaternary nanowires with superlattice structure for high-performance thin-film transistors. *Nano Research*, **2019**, 12, 1796-1803	10	10
27	Electrochromic and energy storage bifunctional Gd-doped WO3/Ag/WO3 films. *Journal of Materials Chemistry A*, **2020**, 8, 10973-10982	13	10
26	Optical properties of (1 0 0) oriented ZnO:Gd films deposited by reactive radio frequency magnetron sputtering. *Materials Letters*, **2014**, 132, 116-118	3.3	10
25	Gate Bias Stress Instability and Hysteresis Characteristics of InAs Nanowire Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 56330-56337	9.5	10
24	Flexible Near-Infrared InGaSb Nanowire Array Detectors with Ultrafast Photoconductive Response Below 20 μs. *Advanced Optical Materials*, **2020**, 8, 2001201	8.1	10
23	Single crystalline Cr2O3 nanowires/nanobelts: CrCl3 assistant synthesis and novel magnetic properties. *Applied Surface Science*, **2012**, 258, 8965-8969	6.7	9
22	Synthesis and photoluminescence properties of SnO2/ZnO hierarchical nanostructures. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 791-796	3	8
21	Fabrication of ZnS/SnO nanowire/nanosheet hierarchical nanoheterostructure and its photoluminescence properties. *CrystEngComm*, **2012**, 14, 8063	3.3	8
20	Enhanced performance of near-infrared photodetectors based on InGaAs nanowires enabled by a two-step growth method. *Journal of Materials Chemistry C*, **2020**, 8, 17025-17033	7.1	7
19	Facile large-area autofocusing Raman mapping system for 2D material characterization. *Optics Express*, **2018**, 26, 9071-9080	3.3	6
18	Passive harmonic mode-locking of Er-doped fiber laser using CVD-grown few-layer MoS 2 as a saturable absorber. *Chinese Physics B*, **2015**, 24, 084206	1.2	6
17	The origin of gate bias stress instability and hysteresis in monolayer WS2 transistors. *Nano Research* , **2020**, 13, 3278-3285	10	6

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16	Enhanced responsivity of a graphene/Si-based heterostructure broadband photodetector by introducing a WS2 interfacial layer. *Journal of Materials Chemistry C*, **2021**, 9, 3846-3853	7.1	6
15	Low temperature synthesis of multiwall carbon nanotubes from carbonaceous solid prepared by sol□gel autocombustion. *Materials Letters*, **2015**, 157, 269-272	3.3	4
14	Sputter deposition of Ag-induced WO3 nanoisland films with enhanced electrochromic properties. *Journal of Alloys and Compounds*, **2020**, 829, 154431	5.7	4
13	Synthesis and photoluminescence properties of comb-like CdS nanobelt/ZnO nanorod heterostructures. *Applied Surface Science*, **2012**, 261, 385-389	6.7	4
12	Increasing the Mn doping level in semiconductor nanocrystals by sol□gel auto-combustion method. *Materials Letters*, **2012**, 89, 269-271	3.3	3
11	Enhanced photoelectrocatalytic performance from size effects in pure and La-doped BiFeO3 nanoparticles. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	2
10	Synthesis of branched Sn/carbon nanotube core/shell structures. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 2128-2131	3	2
9	ZnxCd1□S nanocrystals synthesised by sol□gel autocombustion method. *Materials Research Innovations*, **2012**, 16, 257-260	1.9	2
8	Layer-number determination of two-dimensional materials by optical characterization. *Chinese Optics Letters*, **2018**, 16, 020006	2.2	2
7	Gate-bias instability of few-layer WSe field effect transistors.. *RSC Advances*, **2021**, 11, 6818-6824	3.7	2
6	Optical coupling between two nanobelts. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 373, 2061-2064	2.3	1
5	Enhanced epitaxial growth of two-dimensional monolayer WS2 film with large single domains. *Applied Materials Today*, **2021**, 25, 101234	6.6	0
4	Bistable Silver Electrodeposition-Based Electrochromic Device with Reversible Three-State Optical Transformation By Using WO 3 Nanoislands Modified ITO Electrode. *Advanced Materials Interfaces*,2102566	4.6	0
3	Microstructures, Growth Mechanism of ZnS Nanomatrials Farbicated by Physical Vapor Deposition. *Advanced Materials Research*, **2011**, 356-360, 533-536	0.5	
2	ZnO Nanostructures and Field Emission Properties on Cu Substrate Achieved by Electrodeposition Method. *Advanced Materials Research*, **2011**, 347-353, 3388-3391	0.5	
1	A Strategy for High-Performance Photodetector based on Graphene-Si heterostructure. *E3S Web of Conferences*, **2020**, 213, 02014	0.5	