# Changyong Lan

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Enhanced epitaxial growth of two-dimensional monolayer WS2 film with large single domains. *Applied Materials Today*, **2021**, 25, 101234 | 6.6 | 0 |
| 68 | 2D WS2: From Vapor Phase Synthesis to Device Applications. *Advanced Electronic Materials*, **2021**, 7, 2000688 | 6.4 | 16 |
| 67 | Gate-bias instability of few-layer WSe field effect transistors.. *RSC Advances*, **2021**, 11, 6818-6824 | 3.7 | 2 |
| 66 | 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 |
| 65 | 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 |
| 64 | Electrochromic and energy storage bifunctional Gd-doped WO3/Ag/WO3 films. *Journal of Materials Chemistry A*, **2020**, 8, 10973-10982 | 13 | 10 |
| 63 | 2D materials beyond graphene toward Si integrated infrared optoelectronic devices. *Nanoscale*, **2020**, 12, 11784-11807 | 7.7 | 34 |
| 62 | 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 |
| 61 | Sputter deposition of Ag-induced WO3 nanoisland films with enhanced electrochromic properties. *Journal of Alloys and Compounds*, **2020**, 829, 154431 | 5.7 | 4 |
| 60 | 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 |
| 59 | Gate Bias Stress Instability and Hysteresis Characteristics of InAs Nanowire Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 56330-56337 | 9.5 | 10 |
| 58 | Artificial visual systems enabled by quasi-two-dimensional electron gases in oxide superlattice nanowires. *Science Advances*, **2020**, 6, | 14.3 | 21 |
| 57 | The origin of gate bias stress instability and hysteresis in monolayer WS2 transistors. *Nano Research* , **2020**, 13, 3278-3285 | 10 | 6 |
| 56 | Flexible Near-Infrared InGaSb Nanowire Array Detectors with Ultrafast Photoconductive Response Below 20 μs. *Advanced Optical Materials*, **2020**, 8, 2001201 | 8.1 | 10 |
| 55 | 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 |
| 54 | A Strategy for High-Performance Photodetector based on Graphene-Si heterostructure. *E3S Web of Conferences*, **2020**, 213, 02014 | 0.5 | |
| 53 | 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 |

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|---|---|---|---|
| 52 | High-Performance Transparent Ultraviolet Photodetectors Based on InGaZnO Superlattice Nanowire Arrays. *ACS Nano*, **2019**, 13, 12042-12051 | 16.7 | 19 |
| 51 | Transparent metal-oxide nanowires and their applications in harsh electronics. *Journal of Materials Chemistry C*, **2019**, 7, 202-217 | 7.1 | 37 |
| 50 | Crystalline InGaZnO quaternary nanowires with superlattice structure for high-performance thin-film transistors. *Nano Research*, **2019**, 12, 1796-1803 | 10 | 10 |
| 49 | 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 |
| 48 | 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 |
| 47 | Ultra-fast photodetectors based on high-mobility indium gallium antimonide nanowires. *Nature Communications*, **2019**, 10, 1664 | 17.4 | 39 |
| 46 | 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 |
| 45 | 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 |
| 44 | Incorporating mixed cations in quasi-2D perovskites for high-performance and flexible photodetectors. *Nanoscale Horizons*, **2019**, 4, 1342-1352 | 10.8 | 23 |
| 43 | High Performance Van der Waals Graphene□WS2□Si Heterostructure Photodetector. *Advanced Materials Interfaces*, **2019**, 6, 1901304 | 4.6 | 26 |
| 42 | Direct Visualization of Grain Boundaries in 2D Monolayer WS2 via Induced Growth of CdS Nanoparticle Chains. *Small Methods*, **2019**, 3, 1800245 | 12.8 | 17 |
| 41 | Two-dimensional perovskite materials: From synthesis to energy-related applications. *Materials Today Energy*, **2019**, 11, 61-82 | 7 | 93 |
| 40 | 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 |
| 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 | Wafer-scale synthesis of monolayer WS2 for high-performance flexible photodetectors by enhanced chemical vapor deposition. *Nano Research*, **2018**, 11, 3371-3384 | 10 | 118 |
| 37 | Facile large-area autofocusing Raman mapping system for 2D material characterization. *Optics Express*, **2018**, 26, 9071-9080 | 3.3 | 6 |
| 36 | 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 |
| 35 | Towards high-mobility In2xGa2□xO3 nanowire field-effect transistors. *Nano Research*, **2018**, 11, 5935-5945 | 10 | 15 |

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| 34 | Layer-number determination of two-dimensional materials by optical characterization. *Chinese Optics Letters*, **2018**, 16, 020006 | 2.2 | 2 |
| 33 | Enhanced Negative Photoconductivity in InAs Nanowire Phototransistors Surface-Modified with Molecular Monolayers. *Advanced Materials Interfaces*, **2018**, 5, 1701104 | 4.6 | 14 |
| 32 | Nonpolar-Oriented Wurtzite InP Nanowires with Electron Mobility Approaching the Theoretical Limit. *ACS Nano*, **2018**, 12, 10410-10418 | 16.7 | 22 |
| 31 | 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 |
| 30 | Transparent, flexible, and stretchable WS based humidity sensors for electronic skin. *Nanoscale*, **2017**, 9, 6246-6253 | 7.7 | 208 |
| 29 | Large-Scale Synthesis of Freestanding Layer-Structured PbI and MAPbI Nanosheets for High-Performance Photodetection. *Advanced Materials*, **2017**, 29, 1702759 | 24 | 78 |
| 28 | 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 |
| 27 | ZnO–WS2 heterostructures for enhanced ultra-violet photodetectors. *RSC Advances*, **2016**, 6, 67520-67524 | 3.7 | 38 |
| 26 | Zener Tunneling and Photoresponse of a WS2/Si van der Waals Heterojunction. *ACS Applied Materials & Interfaces*, **2016**, 8, 18375-82 | 9.5 | 73 |
| 25 | Large-area synthesis of monolayer WS and its ambient-sensitive photo-detecting performance. *Nanoscale*, **2015**, 7, 5974-80 | 7.7 | 172 |
| 24 | Low temperature synthesis of multiwall carbon nanotubes from carbonaceous solid prepared by sol–gel autocombustion. *Materials Letters*, **2015**, 157, 269-272 | 3.3 | 4 |
| 23 | Synthesis of single-crystalline GeS nanoribbons for high sensitivity visible-light photodetectors. *Journal of Materials Chemistry C*, **2015**, 3, 8074-8079 | 7.1 | 82 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |

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| 16 | 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 |
| 15 | Synthesis and photoluminescence properties of SnO2/ZnO hierarchical nanostructures. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 791-796 | 3 | 8 |
| 14 | Fabrication of ZnS/SnO nanowire/nanosheet hierarchical nanoheterostructure and its photoluminescence properties. *CrystEngComm*, **2012**, 14, 8063 | 3.3 | 8 |
| 13 | Controlled synthesis of ZnS nanocombs by self-evaporation using ZnS nanobelts as source and substrates. *CrystEngComm*, **2012**, 14, 708-712 | 3.3 | 18 |
| 12 | Synthesis of branched Sn/carbon nanotube core/shell structures. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 2128-2131 | 3 | 2 |
| 11 | Single crystalline Cr2O3 nanowires/nanobelts: CrCl3 assistant synthesis and novel magnetic properties. *Applied Surface Science*, **2012**, 258, 8965-8969 | 6.7 | 9 |
| 10 | Synthesis and photoluminescence properties of comb-like CdS nanobelt/ZnO nanorod heterostructures. *Applied Surface Science*, **2012**, 261, 385-389 | 6.7 | 4 |
| 9 | Increasing the Mn doping level in semiconductor nanocrystals by sol□gel auto-combustion method. *Materials Letters*, **2012**, 89, 269-271 | 3.3 | 3 |
| 8 | ZnxCd1□S nanocrystals synthesised by sol□gel autocombustion method. *Materials Research Innovations*, **2012**, 16, 257-260 | 1.9 | 2 |
| 7 | Magnetic properties of La and (La, Zr) doped BiFeO3 ceramics. *Journal of Materials Science*, **2011**, 46, 734-738 | 4.3 | 98 |
| 6 | 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 |
| 5 | Synthesis and magnetic properties of single-crystalline Na2-xMn8O16 nanorods. *Nanoscale Research Letters*, **2011**, 6, 133 | 5 | 11 |
| 4 | Microstructures, Growth Mechanism of ZnS Nanomatrials Farbicated by Physical Vapor Deposition. *Advanced Materials Research*, **2011**, 356-360, 533-536 | 0.5 | |
| 3 | ZnO Nanostructures and Field Emission Properties on Cu Substrate Achieved by Electrodeposition Method. *Advanced Materials Research*, **2011**, 347-353, 3388-3391 | 0.5 | |
| 2 | Optical coupling between two nanobelts. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 373, 2061-2064 | 2.3 | 1 |
| 1 | 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 |