Aanlian Pan

List of Publications by Citations

330 papers	14,251 citations	63 h-index	105 g-index
352 ext. papers	17,075 ext. citations	9.5 avg, IF	6.67 L-index

#	Paper	IF	Citations
330	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. *Nature Nanotechnology*, **2014**, 9, 1024-30	28.7	858
329	Two-dimensional transition metal dichalcogenides as atomically thin semiconductors: opportunities and challenges. *Chemical Society Reviews*, **2015**, 44, 8859-76	58.5	719
328	Growth of alloy MoS(2x)Se2(1-x) nanosheets with fully tunable chemical compositions and optical properties. *Journal of the American Chemical Society*, **2014**, 136, 3756-9	16.4	362
327	Surface Plasmon-Enhanced Photodetection in Few Layer MoS2 Phototransistors with Au Nanostructure Arrays. *Small*, **2015**, 11, 2392-8	11	292
326	Van der Waals epitaxial growth and optoelectronics of large-scale WSe/SnS vertical bilayer p-n junctions. *Nature Communications*, **2017**, 8, 1906	17.4	258
325	Two-Dimensional CHNHPbI Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. *ACS Applied Materials & Interfaces*, **2017**, 9, 12759-12765	9.5	231
324	Novel Ag3PO4/CeO2 composite with high efficiency and stability for photocatalytic applications. *Journal of Materials Chemistry A*, **2014**, 2, 1750-1756	13	226
323	Insights into Enhanced Visible-Light Photocatalytic Hydrogen Evolution of g-C3N4 and Highly Reduced Graphene Oxide Composite: The Role of Oxygen. *Chemistry of Materials*, **2015**, 27, 1612-1621	9.6	219
322	Synthesis of WS2xSe2-2x Alloy Nanosheets with Composition-Tunable Electronic Properties. *Nano Letters*, **2016**, 16, 264-9	11.5	218
321	Color-tunable photoluminescence of alloyed CdS(x)Se(1-x) nanobelts. *Journal of the American Chemical Society*, **2005**, 127, 15692-3	16.4	206
320	Vapor Growth and Tunable Lasing of Band Gap Engineered Cesium Lead Halide Perovskite Micro/Nanorods with Triangular Cross Section. *ACS Nano*, **2017**, 11, 1189-1195	16.7	199
319	Directional Growth of Ultralong CsPbBr Perovskite Nanowires for High-Performance Photodetectors. *Journal of the American Chemical Society*, **2017**, 139, 15592-15595	16.4	195
318	Optical waveguide through CdS nanoribbons. *Small*, **2005**, 1, 980-3	11	184
317	Continuous alloy-composition spatial grading and superbroad wavelength-tunable nanowire lasers on a single chip. *Nano Letters*, **2009**, 9, 784-8	11.5	180
316	Single-Mode Lasers Based on Cesium Lead Halide Perovskite Submicron Spheres. *ACS Nano*, **2017**, 11, 10681-10688	16.7	168
315	Nitrogen treatment generates tunable nanohybridization of Ni5P4 nanosheets with nickel hydr(oxy)oxides for efficient hydrogen production in alkaline, seawater and acidic media. *Applied Catalysis B: Environmental*, **2019**, 251, 181-194	21.8	155
314	Lateral Growth of Composition Graded Atomic Layer MoS(2(1-x))Se(2x) Nanosheets. *Journal of the American Chemical Society*, **2015**, 137, 5284-7	16.4	155

313	High-Quality In-Plane Aligned CsPbX Perovskite Nanowire Lasers with Composition-Dependent Strong Exciton-Photon Coupling. *ACS Nano*, **2018**, 12, 6170-6178	16.7	147
312	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO). *Journal of the American Chemical Society*, **2017**, 139, 13525-13532	16.4	147
311	Stimulated emissions in aligned CdS nanowires at room temperature. *Journal of Physical Chemistry B*, **2005**, 109, 24268-72	3.4	143
310	Strong photoluminescence of nanostructured crystalline tungsten oxide thin films. *Applied Physics Letters*, **2005**, 86, 141901	3.4	136
309	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. *Nature Communications*, **2019**, 10, 4663	17.4	127
308	ZnO flowers made up of thin nanosheets and their optical properties. *Journal of Crystal Growth*, **2005**, 282, 165-172	1.6	119
307	Room-temperature near-infrared photodetectors based on single heterojunction nanowires. *Nano Letters*, **2014**, 14, 694-8	11.5	118
306	How lasing happens in CsPbBr perovskite nanowires. *Nature Communications*, **2019**, 10, 265	17.4	118
305	Spatial composition grading of quaternary ZnCdSSe alloy nanowires with tunable light emission between 350 and 710 nm on a single substrate. *ACS Nano*, **2010**, 4, 671-80	16.7	116
304	Lasing mechanism of ZnO nanowires/nanobelts at room temperature. *Journal of Physical Chemistry B*, **2006**, 110, 12865-73	3.4	112
303	Flexible Photodetector Arrays Based on Patterned CH NH PbI Cl Perovskite Film for Real-Time Photosensing and Imaging. *Advanced Materials*, **2019**, 31, e1805913	24	110
302	Unconventional p-d Hybridization Interaction in PtGa Ultrathin Nanowires Boosts Oxygen Reduction Electrocatalysis. *Journal of the American Chemical Society*, **2019**, 141, 18083-18090	16.4	107
301	Rayleigh-instability-induced metal nanoparticle chains encapsulated in nanotubes produced by atomic layer deposition. *Nano Letters*, **2008**, 8, 114-8	11.5	106
300	Germanium/perovskite heterostructure for high-performance and broadband photodetector from visible to infrared telecommunication band. *Light: Science and Applications*, **2019**, 8, 106	16.7	100
299	Two-Dimensional MoS2-Graphene-Based Multilayer van der Waals Heterostructures: Enhanced Charge Transfer and Optical Absorption, and Electric-Field Tunable Dirac Point and Band Gap. *Chemistry of Materials*, **2017**, 29, 5504-5512	9.6	99
298	Perovskite-Erbium Silicate Nanosheet Hybrid Waveguide Photodetectors at the Near-Infrared Telecommunication Band. *Advanced Materials*, **2017**, 29, 1604431	24	99
297	Composition and bandgap-graded semiconductor alloy nanowires. *Advanced Materials*, **2012**, 24, 13-33	24	99
296	High-Performance Flexible Photodetectors based on High-Quality Perovskite Thin Films by a Vapor-Solution Method. *Advanced Materials*, **2017**, 29, 1703256	24	96

295	Direct Vapor Growth of Perovskite CsPbBr Nanoplate Electroluminescence Devices. *ACS Nano*, **2017**, 11, 9869-9876	16.7	96
294	Room-temperature dual-wavelength lasing from single-nanoribbon lateral heterostructures. *Journal of the American Chemical Society*, **2012**, 134, 12394-7	16.4	96
293	Spatial bandgap engineering along single alloy nanowires. *Journal of the American Chemical Society*, **2011**, 133, 2037-9	16.4	91
292	Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. *Nano Letters*, **2016**, 16, 6416-6424	11.5	90
291	Cesium lead halide perovskite triangular nanorods as high-gain medium and effective cavities for multiphoton-pumped lasing. *Nano Research*, **2017**, 10, 3385-3395	10	89
290	Self-Powered Broad-band Photodetectors Based on Vertically Stacked WSe/BiTe Heterojunctions. *ACS Nano*, **2019**, 13, 13573-13580	16.7	89
289	Composition-Modulated Two-Dimensional Semiconductor Lateral Heterostructures via Layer-Selected Atomic Substitution. *ACS Nano*, **2017**, 11, 961-967	16.7	86
288	Properties of Excitons and Photogenerated Charge Carriers in Metal Halide Perovskites. *Advanced Materials*, **2019**, 31, e1806671	24	85
287	Twist-angle-dependent interlayer exciton diffusion in WS-WSe heterobilayers. *Nature Materials*, **2020**, 19, 617-623	27	85
286	Band Alignment Engineering in Two-Dimensional Lateral Heterostructures. *Journal of the American Chemical Society*, **2018**, 140, 11193-11197	16.4	85
285	Growth of dendritic cobalt nanocrystals at room temperature. *Journal of Crystal Growth*, **2004**, 260, 427-434	1.8	83
284	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Exciton-Phonon Interaction. *ACS Central Science*, **2019**, 5, 1377-1386	16.8	80
283	Facile in situ construction of mediator-free direct Z-scheme g-C3N4/CeO2 heterojunctions with highly efficient photocatalytic activity. *Journal Physics D: Applied Physics*, **2018**, 51, 275302	3	80
282	Broken Symmetry Induced Strong Nonlinear Optical Effects in Spiral WS Nanosheets. *ACS Nano*, **2017**, 11, 4892-4898	16.7	79
281	Dimensional transformation and morphological control of graphitic carbon nitride from water-based supramolecular assembly for photocatalytic hydrogen evolution: from 3D to 2D and 1D nanostructures. *Applied Catalysis B: Environmental*, **2019**, 254, 321-328	21.8	76
280	Wavelength-converted/selective waveguiding based on composition-graded semiconductor nanowires. *Nano Letters*, **2012**, 12, 5003-7	11.5	76
279	Van der Waals epitaxial growth of vertically stacked Sb2Te3/MoS2 p□ heterojunctions for high performance optoelectronics. *Nano Energy*, **2019**, 59, 66-74	17.1	75
278	On-Nanowire Axial Heterojunction Design for High-Performance Photodetectors. *ACS Nano*, **2016**, 10, 8474-81	16.7	73

277	On-nanowire spatial band gap design for white light emission. *Nano Letters*, **2011**, 11, 5085-9	11.5	72
276	Composition modulation in one-dimensional and two-dimensional chalcogenide semiconductor nanostructures. *Chemical Society Reviews*, **2018**, 47, 7504-7521	58.5	72
275	Single-Crystalline InGaAs Nanowires for Room-Temperature High-Performance Near-Infrared Photodetectors. *Nano-Micro Letters*, **2016**, 8, 29-35	19.5	71
274	Quaternary alloy semiconductor nanobelts with bandgap spanning the entire visible spectrum. *Journal of the American Chemical Society*, **2009**, 131, 9502-3	16.4	70
273	Semiconductor alloy nanoribbon lateral heterostructures for high-performance photodetectors. *Advanced Materials*, **2014**, 26, 2844-9	24	65
272	Enhancing Light Emission of ZnO-Nanofilm/Si-Micropillar Heterostructure Arrays by Piezo-Phototronic Effect. *Advanced Materials*, **2015**, 27, 4447-4453	24	65
271	Multicolor Heterostructures of Two-Dimensional Layered Halide Perovskites that Show Interlayer Energy Transfer. *Journal of the American Chemical Society*, **2018**, 140, 15675-15683	16.4	65
270	Strain-Tuning Atomic Substitution in Two-Dimensional Atomic Crystals. *ACS Nano*, **2018**, 12, 4853-4860	16.7	64
269	Band-selective infrared photodetectors with complete-composition-range InAs(x)P(1-x) alloy nanowires. *Advanced Materials*, **2014**, 26, 7444-9	24	64
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267	Low-threshold nanowire laser based on composition-symmetric semiconductor nanowires. *Nano Letters*, **2013**, 13, 1251-6	11.5	62
266	Fabrication and photoluminescence of high-quality ternary CdSSe nanowires and nanoribbons. *Nanotechnology*, **2006**, 17, 1083-6	3.4	62
265	Controllable Growth and Formation Mechanisms of Dislocated WS Spirals. *Nano Letters*, **2018**, 18, 3885-3892	11.5	62
264	Highly stable lead-free Cs3Bi2I9 perovskite nanoplates for photodetection applications. *Nano Research*, **2019**, 12, 1894-1899	10	61
263	Controlled Vapor Growth and Nonlinear Optical Applications of Large-Area 3R Phase WS2 and WSe2 Atomic Layers. *Advanced Functional Materials*, **2019**, 29, 1806874	15.6	59
262	Synthesis of Tower-like ZnO Structures and Visible Photoluminescence Origins of Varied-Shaped ZnO Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 7655-7660	3.8	59
261	Changeable position of SPR peak of Ag nanoparticles embedded in mesoporous SiO2 glass by annealing treatment. *Applied Surface Science*, **2003**, 205, 323-328	6.7	59
260	Photocurrent detection of the orbital angular momentum of light. *Science*, **2020**, 368, 763-767	33.3	58

259	Near Full-Composition-Range High-Quality GaAsSb Nanowires Grown by Molecular-Beam Epitaxy. *Nano Letters*, **2017**, 17, 622-630	11.5	57
258	Direct Vapor Growth of 2D Vertical Heterostructures with Tunable Band Alignments and Interfacial Charge Transfer Behaviors. *Advanced Science*, **2019**, 6, 1802204	13.6	57
257	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. *Nature Communications*, **2020**, 11, 1330	17.4	56
256	Si-CdSSe core/shell nanowires with continuously tunable light emission. *Nano Letters*, **2008**, 8, 3413-7	11.5	55
255	Asymmetric light propagation in composition-graded semiconductor nanowires. *Scientific Reports*, **2012**, 2, 820	4.9	54
254	Vapor growth and interfacial carrier dynamics of high-quality CdS-CdSSe-CdS axial nanowire heterostructures. *Nano Energy*, **2017**, 32, 28-35	17.1	53
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252	Light Emission Properties of 2D Transition Metal Dichalcogenides: Fundamentals and Applications. *Advanced Optical Materials*, **2018**, 6, 1800420	8.1	53
251	Preparation of nanosized particles of FeNi and FeCo alloy in solution. *Journal of Materials Science*, **2003**, 38, 4581-4585	4.3	53
250	Single-Crystalline Cu4Bi4S9Nanoribbons: Facile Synthesis, Growth Mechanism, and Surface Photovoltaic Properties. *Chemistry of Materials*, **2011**, 23, 1299-1305	9.6	52
249	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX3; X = Br, I) Nanowires. *ACS Energy Letters*, **2019**, 4, 1045-1052	20.1	51
248	Preparation and elastic properties of helical nanotubes obtained by atomic layer deposition with carbon nanocoils as templates. *Small*, **2010**, 6, 910-4	11	51
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246	The optical properties of ZnO sheets electrodeposited on ITO glass. *Materials Letters*, **2007**, 61, 2000-2003	3	49
245	High-quality alloyed CdSxSe1-x whiskers as waveguides with tunable stimulated emission. *Journal of Physical Chemistry B*, **2006**, 110, 22313-7	3.4	47
244	Rubidium Doping to Enhance Carrier Transport in CsPbBr Single Crystals for High-Performance X-Ray Detection. *ACS Applied Materials & Interfaces*, **2020**, 12, 989-996	9.5	47
243	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H Evolution Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 17341-17349	9.5	46
242	Space-Confined Synthesis of 2D All-Inorganic CsPbI3 Perovskite Nanosheets for Multiphoton-Pumped Lasing. *Advanced Optical Materials*, **2018**, 6, 1800879	8.1	46

241	Crystal structure and electron transition underlying photoluminescence of methylammonium lead bromide perovskites. *Journal of Materials Chemistry C*, **2017**, 5, 7739-7745	7.1	45
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237	Generalized Synthetic Strategy for Amorphous Transition Metal Oxides-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. *Advanced Functional Materials*, **2021**, 31, 2009230	15.6	45
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233	Ultrahigh Hole Mobility of Sn-Catalyzed GaSb Nanowires for High Speed Infrared Photodetectors. *Nano Letters*, **2019**, 19, 5920-5929	11.5	41
232	Bandgap-engineered GaAsSb alloy nanowires for near-infrared photodetection at 1.31μm. *Semiconductor Science and Technology*, **2015**, 30, 105033	1.8	40
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228	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. *Physical Review Letters*, **2015**, 115, 027403	7.4	38
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220	Up-conversion luminescence and optical temperature-sensing properties of Er3+-doped perovskite Na0.5Bi0.5TiO3 nanocrystals. *Journal of Physics and Chemistry of Solids*, **2016**, 98, 28-31	3.9	35
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215	Spatially composition-modulated two-dimensional WSSe nanosheets. *Nanoscale*, **2017**, 9, 4707-4712	7.7	32
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209	Hierarchical SnO2 Nanostructures: Linear Assembly of Nanorods on the Nanowire Backbones. *Journal of Physical Chemistry C*, **2010**, 114, 1844-1848	3.8	31
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186	Structural stability and Raman scattering of ZnSe nanoribbons under high pressure. *Journal of Alloys and Compounds*, **2009**, 480, 798-801	5.7	25
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179	Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. *Nano Letters*, **2019**, 19, 7217-7225	11.5	23
178	Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. *Journal Physics D: Applied Physics*, **2019**, 53, 015502	3	23
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176	Ferromagnetic and metallic properties of the semihydrogenated GaN sheet. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 1442-1445	1.3	23
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