

Lih-Juann Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Superb Low Threshold Surface-Plasmon Polariton ZnO Nanolasers on an Aluminum Film with Tailored MoO ₃ and Ta ₂ O ₅ Dielectric Interlayers of Varied Thickness. Journal of Physical Chemistry C, 2022, 126, 11779-11787.	3.1	2
2	Distinct Carrier Transport Properties Across Horizontally vs Vertically Oriented Heterostructures of 2D/3D Perovskites. Journal of the American Chemical Society, 2021, 143, 4969-4978.	13.7	52
3	Very Robust Spray-Synthesized CsPbI ₃ Quantum Emitters with Ultrahigh Room-Temperature Cavity-Free Brightness and Self-Healing Ability. ACS Nano, 2021, 15, 11358-11368.	14.6	15
4	Facet-Dependent and Adjacent Facet-Related Electrical Conductivity Properties of SrTiO ₃ Crystals. Journal of Physical Chemistry C, 2021, 125, 10051-10056.	3.1	23
5	Organic Lead Halide Nanocrystals Providing an Ultra-Wide Color Gamut with Almost-Unity Photoluminescence Quantum Yield. ACS Applied Materials & Interfaces, 2021, 13, 25202-25213.	8.0	11
6	Plasmonic enhancement of hydrogen production by water splitting with CdS nanowires protected by metallic TiN overlayers as highly efficient photocatalysts. Nano Energy, 2021, 89, 106407.	16.0	23
7	Facet-dependent electrical conductivity properties of GaN wafers. Journal of Materials Chemistry C, 2021, 9, 15354-15358.	5.5	10
8	Green Treatment of Phosphate from Wastewater Using a Porous Bio-Templated Graphene Oxide/MgMn-Layered Double Hydroxide Composite. IScience, 2020, 23, 101065.	4.1	21
9	Aluminum Plasmonics Enriched Ultraviolet GaN Photodetector with Ultrahigh Responsivity, Detectivity, and Broad Bandwidth. Advanced Science, 2020, 7, 2002274.	11.2	65
10	ZnO Nanowires on Single-Crystalline Aluminum Film Coupled with an Insulating WO ₃ Interlayer Manifesting Low Threshold SPP Laser Operation. Nanomaterials, 2020, 10, 1680.	4.1	7
11	Large Facet-Specific Built-in Potential Differences Affecting Trap State Densities and Carrier Lifetimes of GaAs Wafers. Journal of Physical Chemistry C, 2020, 124, 21577-21582.	3.1	15
12	Strain Control of a NO Gas Sensor Based on Ga-Doped ZnO Epilayers. ACS Applied Electronic Materials, 2020, 2, 1365-1372.	4.3	24
13	Advanced Room Temperature Single-Electron Transistor of a Germanium Nanochain with Two and Multitunnel Junctions. ACS Applied Electronic Materials, 2020, 2, 1843-1848.	4.3	4
14	Germanium Possessing Facet-Specific Trap States and Carrier Lifetimes. Journal of Physical Chemistry C, 2020, 124, 13304-13309.	3.1	15
15	Power Saving High Performance Deep-Ultraviolet Phototransistors Made of ZnGa ₂ O ₄ Epilayers. ACS Applied Electronic Materials, 2020, 2, 590-596.	4.3	10
16	Facet-Dependent Surface Trap States and Carrier Lifetimes of Silicon. Nano Letters, 2020, 20, 1952-1958.	9.1	20
17	GaAs wafers possessing facet-dependent electrical conductivity properties. Journal of Materials Chemistry C, 2020, 8, 5456-5460.	5.5	20
18	Vastly improved solar-light induced water splitting catalyzed by few-layer MoS ₂ on Au nanoparticles utilizing localized surface plasmon resonance. Nano Energy, 2020, 77, 105267.	16.0	23

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19	A Facile Microwave-Assisted Method to Prepare Highly Electrosorptive Reduced Graphene Oxide/Activated Carbon Composite Electrode for Capacitive Deionization. <i>Advanced Materials Technologies</i> , 2019, 4, 1900213.	5.8	14
20	Titanium Nitride Epitaxial Films as a Plasmonic Material Platform: Alternative to Gold. <i>ACS Photonics</i> , 2019, 6, 1848-1854.	6.6	88
21	Tunable Moiré Superlattice of Artificially Twisted Monolayers. <i>Advanced Materials</i> , 2019, 31, 1901077.	21.0	27
22	Monolayer Stacking: Tunable Moiré Superlattice of Artificially Twisted Monolayers (<i>Adv. Mater.</i>)	21.0	2
23	Electro-assisted selective uptake/release of phosphate using a graphene oxide/MgMn-layered double hydroxide composite. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3962-3970.	10.3	31
24	Low threshold room-temperature UV surface plasmon polariton lasers with ZnO nanowires on single-crystal aluminum films with Al ₂ O ₃ interlayers. <i>RSC Advances</i> , 2019, 9, 13600-13607.	3.6	17
25	Shape-Tunable SrTiO ₃ Crystals Revealing Facet-Dependent Optical and Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13664-13671.	3.1	65
26	Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. <i>Nature Catalysis</i> , 2019, 2, 251-258.	34.4	188
27	A flexible transparent one-structure tribo-piezo-pyroelectric hybrid energy generator based on bio-inspired silver nanowires network for biomechanical energy harvesting and physiological monitoring. <i>Nano Energy</i> , 2018, 48, 383-390.	16.0	118
28	Epitaxial Aluminum-on-Sapphire Films as a Plasmonic Material Platform for Ultraviolet and Full Visible Spectral Regions. <i>ACS Photonics</i> , 2018, 5, 2624-2630.	6.6	43
29	<i>In Situ</i> Investigation of Defect-Free Copper Nanowire Growth. <i>Nano Letters</i> , 2018, 18, 778-784.	9.1	15
30	Copper nanocavities confine intermediates for efficient electrosynthesis of C3 alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018, 1, 946-951.	34.4	354
31	Germanium Wafers Possessing Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie</i> , 2018, 130, 16394-16397.	2.0	3
32	Germanium Wafers Possessing Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16162-16165.	13.8	23
33	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO ₂ . <i>Nature Communications</i> , 2018, 9, 3828.	12.8	279
34	Defect Engineering: Polycrystalline TiO ₂ Nanofibers with H ₂ Plasma Treatment Tuning Grain to Grain Boundary Potential for Photochemical Antibacterial Agents. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
35	Omnidirectional Harvesting of Weak Light Using a Graphene Quantum Dot-Modified Organic/Silicon Hybrid Device. <i>ACS Nano</i> , 2017, 11, 4564-4570.	14.6	41
36	A leaf-molded transparent triboelectric nanogenerator for smart multifunctional applications. <i>Nano Energy</i> , 2017, 32, 180-186.	16.0	89

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37	Silicon Wafers with Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie</i> , 2017, 129, 15541-15545.	2.0	12
38	Silicon Wafers with Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15339-15343.	13.8	46
39	2D Materials: Single Atomically Sharp Lateral Monolayer π -n Heterojunction Solar Cells with Extraordinarily High Power Conversion Efficiency (<i>Adv. Mater.</i> 32/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	0
40	Single Atomically Sharp Lateral Monolayer π -n Heterojunction Solar Cells with Extraordinarily High Power Conversion Efficiency. <i>Advanced Materials</i> , 2017, 29, 1701168.	21.0	111
41	Magnetic MoS ₂ Interface Monolayer on a CdS Nanowire by Cation Exchange. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23055-23060.	3.1	24
42	Nanoscale Copper and Copper Compounds for Advanced Device Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5845-5851.	2.2	6
43	Optimization of the nanotwin-induced zigzag surface of copper by electromigration. <i>Nanoscale</i> , 2016, 8, 2584-2588.	5.6	16
44	Facet-Dependent Electrical Conductivity Properties of PbS Nanocrystals. <i>Chemistry of Materials</i> , 2016, 28, 1574-1580.	6.7	56
45	Thermal dewetting with a chemically heterogeneous nano-template for self-assembled Li ₀ FePt nanoparticle arrays. <i>Nanoscale</i> , 2016, 8, 3926-3935.	5.6	10
46	Plasmonic enhancement of Au nanoparticle-embedded single-crystalline ZnO nanowire dye-sensitized solar cells. <i>Nano Energy</i> , 2016, 20, 264-271.	16.0	48
47	Si Hybrid Solar Cells with 13% Efficiency <i>via</i> Concurrent Improvement in Optical and Electrical Properties by Employing Graphene Quantum Dots. <i>ACS Nano</i> , 2016, 10, 815-821.	14.6	76
48	Efficiency Enhancement of Silicon Heterojunction Solar Cells via Photon Management Using Graphene Quantum Dot as Downconverters. <i>Nano Letters</i> , 2016, 16, 309-313.	9.1	115
49	Intermediates in the cation reactions in solution probed by an in situ surface enhanced Raman scattering method. <i>Scientific Reports</i> , 2015, 5, 13759.	3.3	6
50	Facet-Dependent Electrical Conductivity Properties of Cu ₂ O Crystals. <i>Nano Letters</i> , 2015, 15, 2155-2160.	9.1	203
51	Role of Carbon Nanotube Interlayer in Enhancing the Electron Field Emission Behavior of Ultrananocrystalline Diamond Coated Si-Tip Arrays. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7732-7740.	8.0	10
52	Direct Observation of Sublimation Behaviors in One-Dimensional In ₂ Se ₃ /In ₂ O ₃ Nanoheterostructures. <i>Analytical Chemistry</i> , 2015, 87, 5584-5588.	6.5	10
53	Multibit Programmable Optoelectronic Nanowire Memory with Sub-femtojoule Optical Writing Energy. <i>Advanced Functional Materials</i> , 2014, 24, 2967-2974.	14.9	28
54	All-Color Plasmonic Nanolasers with Ultralow Thresholds: Autotuning Mechanism for Single-Mode Lasing. <i>Nano Letters</i> , 2014, 14, 4381-4388.	9.1	201

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55	Sequential Cation Exchange Generated Superlattice Nanowires Forming Multiple p-n Heterojunctions. ACS Nano, 2014, 8, 9422-9426.	14.6	29
56	Electron Field Emission Enhancement of Vertically Aligned Ultrananocrystalline Diamond-Coated ZnO Core-shell Heterostructured Nanorods. , 2014, 10, 179.		1
57	Triboelectric nanogenerator built inside shoe insole for harvesting walking energy. Nano Energy, 2013, 2, 856-862.	16.0	337
58	Integrated optical waveguide and photodetector arrays based on comb-like ZnO structures. Nanoscale, 2013, 5, 12185.	5.6	30
59	Large area controllable hexagonal close-packed single-crystalline metal nanocrystal arrays with localized surface plasmon resonance response. Journal of Materials Chemistry C, 2013, 1, 3593.	5.5	9
60	Three-dimensional heterostructured ZnSe nanoparticles/Si wire arrays with enhanced photodetection and photocatalytic performances. Journal of Materials Chemistry C, 2013, 1, 1345-1351.	5.5	17
61	Magnetic anisotropy in nanostructured gadolinium. Journal of Applied Physics, 2012, 111, .	2.5	15
62	Ge nanowire transistors with high-quality interfaces by atomic-scale thermal annealing. , 2012, , .		0
63	Large scale two-dimensional nanobowl array high efficiency polymer solar cell. RSC Advances, 2012, 2, 1314.	3.6	15
64	Highly sensitive metal-insulator-semiconductor UV photodetectors based on ZnO/SiO ₂ core-shell nanowires. Journal of Materials Chemistry, 2012, 22, 8420.	6.7	52
65	Metal sulfide nanostructures: synthesis, properties and applications in energy conversion and storage. Journal of Materials Chemistry, 2012, 22, 19-30.	6.7	557
66	Low temperature synthesis of copper telluride nanostructures: phase formation, growth, and electrical transport properties. Journal of Materials Chemistry, 2012, 22, 7098.	6.7	36
67	Plasmonic Nanolaser Using Epitaxially Grown Silver Film. Science, 2012, 337, 450-453.	12.6	686
68	Low-temperature electrodeposited Co-doped ZnO nanorods with enhanced ethanol and CO sensing properties. Sensors and Actuators B: Chemical, 2012, 161, 734-739.	7.8	105
69	Controlled growth of the silicide nanostructures on Si bicrystal nanotemplate at a precision of a few nanometres. CrystEngComm, 2011, 13, 3967.	2.6	8
70	Chromium-Doped Germanium Nanotowers: Growth Mechanism and Room Temperature Ferromagnetism. Crystal Growth and Design, 2011, 11, 2957-2963.	3.0	8
71	Heterogeneous and Homogeneous Nucleation of Epitaxial NiSi ₂ in [110] Si Nanowires. Journal of Physical Chemistry C, 2011, 115, 397-401.	3.1	24
72	Anomalous adhesive superhydrophobicity on aligned ZnO nanowire arrays grown on a lotus leaf. Journal of Materials Chemistry, 2011, 21, 18061.	6.7	20

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73	Direct growth of FeSi_2 nanowires with infrared emission, ferromagnetism at room temperature and high magnetoresistance via a spontaneous chemical reaction method. <i>Journal of Materials Chemistry</i> , 2011, 21, 5704.	6.7	24
74	Room-temperature ferromagnetism in $\text{CrSi}_2(\text{core})/\text{SiO}_2(\text{shell})$ semiconducting nanocables. <i>Applied Physics Letters</i> , 2011, 98, 193104.	3.3	12
75	Nanothermometers for Transmission Electron Microscopy " Fabrication and Characterization. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4298-4303.	2.0	6
76	Single-Crystal Nanowire Nanogenerator with Upto 1 V Output Voltage. <i>Advanced Materials</i> , 2010, 22, 4008-4013.	21.0	169
77	Direct Growth of Aligned Zinc Oxide Nanorods on Paper Substrates for Low-Cost Flexible Electronics. <i>Advanced Materials</i> , 2010, 22, 4059-4063.	21.0	344
78	Stability of nanoscale twins in copper under electric current stressing. <i>Journal of Applied Physics</i> , 2010, 108, 066103.	2.5	14
79	Large enhancement in photon detection sensitivity via Schottky-gated CdS nanowire nanosensors. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	123
80	In-situ transmission electron microscopy study of nanotwinned copper under electromigration. , 2010, , .		1
81	Direct growth of high-rate capability and high capacity copper sulfide nanowire array cathodes for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 6638.	6.7	174
82	Direct Conversion of Single-Layer SnO Nanoplates to Multi-Layer SnO_2 Nanoplates with Enhanced Ethanol Sensing Properties. <i>Advanced Functional Materials</i> , 2009, 19, 2453-2456.	14.9	95
83	Oriented growth of large-scale nickel sulfide nanowire arrays via a general solution route for lithium-ion battery cathode applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 7277.	6.7	132
84	Controlled Growth of ZnO Nanopagoda Arrays with Varied Lamination and Apex Angles. <i>Crystal Growth and Design</i> , 2009, 9, 3161-3167.	3.0	49
85	Nd-doped silicon nanowires with room temperature ferromagnetism and infrared photoemission. <i>Applied Physics Letters</i> , 2009, 94, 263117.	3.3	5
86	Highly luminescent, homogeneous ZnO nanoparticles synthesized via semiconductive polyalkyloxythiophene template. <i>Journal of Materials Chemistry</i> , 2009, 19, 7284.	6.7	35
87	Intercrossed Sheet-Like Ga-Doped ZnS Nanostructures with Superb Photocatalytic Activity and Photoresponse. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12878-12882.	3.1	70
88	Facile synthesis of large scale Er-doped ZnO flower-like structures with enhanced 1.54 μm infrared emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1190-1195.	1.8	17
89	High-Sensitivity Solid-State Pb(Core)/ZnO(Shell) Nanothermometers Fabricated by a Facile Galvanic Displacement Method. <i>Advanced Materials</i> , 2008, 20, 4789-4792.	21.0	41
90	Elastic Properties and Buckling of Silicon Nanowires. <i>Advanced Materials</i> , 2008, 20, 3919-3923.	21.0	119

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91	Vertically well-aligned epitaxial Ni ₃ Si ₂ nanowire arrays with excellent field emission properties. Applied Physics Letters, 2008, 93, 113109.	3.3	37
92	Tunable electric and magnetic properties of Co _x Zn _{1-x} S nanowires. Applied Physics Letters, 2008, 93, .	3.3	43
93	Direct observation of electromigration-induced surface atomic steps in Cu lines by in situ transmission electron microscopy. Applied Physics Letters, 2007, 90, 203101.	3.3	26
94	Single-Crystalline Pb Nanowires Grown by Galvanic Displacement Reactions of Pb Ions on Zinc Foils and Their Superconducting Properties. Journal of Physical Chemistry C, 2007, 111, 6215-6219.	3.1	33
95	Supramolecular nanotubes with high thermal stability: a rigidity enhanced structure transformation induced by electron-beam irradiation and heat. Journal of Materials Chemistry, 2007, 17, 2307.	6.7	10
96	Electrical and photoelectrical performances of nano-photodiode based on ZnO nanowires. Chemical Physics Letters, 2007, 435, 119-122.	2.6	94
97	Growth of SiO _x Nanowires on Self-Assembled Hexagonal Au Particle Networks. Materials Research Society Symposia Proceedings, 2004, 818, 45.	0.1	0
98	Dislocation multiplication inside contact holes. , 0, , .		0