Johnny C Ho

List of Publications by Year
in descending order

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231 papers	14,941 citations	17440 63 h-index	21540 114 g-index
238 all docs	238 docs citations	238 times ranked	17886 citing authors

#	Article	IF	Citations
1	Vacancy Modulating Co₃Sn₂S₂ Topological Semimetal for Aqueous Zincâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	9
2	Vacancy Modulating Co₃Sn₂S₂ Topological Semimetal for Aqueous Zincâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, e202111826.	13.8	21
3	Ferroelectric P(VDF-TrFE) wrapped InGaAs nanowires for ultralow-power artificial synapses. Nano Energy, 2022, 91, 106654.	16.0	41
4	On-wire axial perovskite heterostructures for monolithic dual-wavelength laser. Nano Energy, 2022, 92, 106778.	16.0	10
5	Sequential self-reconstruction of localized Mo species in hierarchical carbon/Coâ€“Mo oxide heterostructures for boosting alkaline hydrogen evolution kinetics and durability. Journal of Materials Chemistry A, 2022, 10, 3953-3962.	10.3	13
6	Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries. Nature Communications, 2022, 13, 752.	12.8	49
7	Deconvoluting the energy transport mechanisms in all-inorganic CsPb2Br5/CsPbBr3 perovskite composite systems. APL Materials, 2022, 10, .	5.1	3
8	NiMo@C3N5 heterostructures with multiple electronic transmission channels for highly efficient hydrogen evolution from alkaline electrolytes and seawater. Chemical Engineering Journal, 2022, 438, 135379.	12.7	42
9	Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability. Science China Materials, 2022, 65, 1313-1319.	6.3	5
10	Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors. Nano Research, 2022, 15, 3621-3627.	10.4	11
11	Infrared Photodetectors Based on 2D Materials and Nanophotonics. Advanced Functional Materials, 2022, 32, .	14.9	86
12	Near-Infrared Polarimetric Image Sensors Based on Ordered Sulfur-Passivation GaSb Nanowire Arrays. ACS Nano, 2022, 16, 8128-8140.	14.6	22
13	Luminescent concentrators enable highly efficient and broadband photodetection. Light: Science and Applications, 2022, 11, 125.	16.6	5
14	Highly Efficient Full van der Waals 1D pâ€Te/2D nâ€Bi₂O₂Se Heterodiodes with Nanoscale Ultraâ€Photosensitive Channels. Advanced Functional Materials, 2022, 32, .	14.9	32
15	Dropâ€Casting Halide Microcrystals Enabled by Green Glycol Solvent for Highâ€Performance Photodetectors. Advanced Photonics Research, 2022, 3, .	3.6	1
16	Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS₂ Heterojunctions. ACS Nano, 2022, 16, 11036-11048.	14.6	24
17	Superior Electrocatalyst for Allâ€pH Hydrogen Evolution Reaction: Heterogeneous Rh/N and S Coâ€Doped Carbon Yolkâ€“Shell Nanospheres. Advanced Functional Materials, 2022, 32, .	14.9	7
18	Recent Advances in the Construction of 2D Heterostructures for Electrocatalytic Water Splitting. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	15

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19	Topochemical domain engineering to construct 2D mosaic heterostructure with internal electric field for high-performance overall water splitting. Nano Energy, 2022, 101, 107566.	16.0	19
20	2D WS₂: From Vapor Phase Synthesis to Device Applications. Advanced Electronic Materials, 2021, 7, 2000688.	5.1	63
21	More than physical support: The effect of nickel foam corrosion on electrocatalytic performance. Applied Surface Science, 2021, 538, 147977.	6.1	27
22	Photoresponse improvement of mixed-dimensional 1Dâ€“2D GaAs photodetectors by incorporating constructive interface states. Nanoscale, 2021, 13, 1086-1092.	5.6	43
23	High-performance electrically transduced hazardous gas sensors based on low-dimensional nanomaterials. Nanoscale Advances, 2021, 3, 6254-6270.	4.6	14
24	Mechanism of non-catalytic chemical vapor deposition growth of all-inorganic CsPbX₃ (X) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.5	6
25	Crystalline all-inorganic lead-free Cs3Sb2I9 perovskite microplates with ultra-fast photoconductive response and robust thermal stability. Nano Research, 2021, 14, 4116-4124.	10.4	39
26	High elasticity of CsPbBr3 perovskite nanowires for flexible electronics. Nano Research, 2021, 14, 4033-4037.	10.4	20
27	Highâ€Performance Flexible Selfâ€Powered Photodetectors Utilizing Spontaneous Electron and Hole Separation in Quasiâ€2D Halide Perovskites. Small, 2021, 17, e2100442.	10.0	26
28	Two-Step Chemical Vapor Deposition-Synthesized Lead-Free All-Inorganic Cs₃Sb₂Br₉ Perovskite Microplates for Optoelectronic Applications. ACS Applied Materials & Interfaces, 2021, 13, 35930-35940.	8.0	20
29	Toward Unusualâ€High Hole Mobility of pâ€Channel Fieldâ€Effectâ€Transistors. Small, 2021, 17, 2102323.	10.0	18
30	Quantum Artificial Synapses. Advanced Quantum Technologies, 2021, 4, 2100072.	3.9	8
31	Antimonyâ€Rich GaAs_xSb_{1â^'}_x Nanowires Passivated by Organic Sulfides for Highâ€Performance Transistors and Nearâ€Infrared Photodetectors. Advanced Optical Materials, 2021, 9, 2101289.	7.3	13
32	A thermally robust and strongly oxidizing surface of WO₃hydrate nanowires for electrical aldehyde sensing with long-term stability. Journal of Materials Chemistry A, 2021, 9, 5815-5824.	10.3	11
33	Selfâ€Antiâ€Stacking 2D Metal Phosphide Loopâ€Sheet Heterostructures by Edgeâ€Topological Regulation for Highly Efficient Water Oxidation. Small, 2021, 17, e2006860.	10.0	16
34	Van der Waals PdSe₂/WS₂ Heterostructures for Robust Highâ€Performance Broadband Photodetection from Visible to Infrared Optical Communication Band. Advanced Optical Materials, 2021, 9, 2001991.	7.3	40
35	NiFe-layered double hydroxideÂarrays for oxygen evolution reaction in fresh water and seawater. Materials Today Energy, 2021, 22, 100883.	4.7	26
36	Superior Performance and Stability of 2D Dionâ€“Jacobson Halide Perovskite Photodetectors Operated under Harsh Conditions without Encapsulation. Advanced Optical Materials, 2021, 9, 2101523.	7.3	7

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37	Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries. Materials Today, 2021, 51, 87-95.	14.2	10
38	Enhanced epitaxial growth of two-dimensional monolayer WS2 film with large single domains. Applied Materials Today, 2021, 25, 101234.	4.3	4
39	Selfâ€Assembly of Colloidal Particles for Fabrication of Structural Color Materials toward Advanced Intelligent Systems. Advanced Intelligent Systems, 2020, 2, 1900085.	6.1	18
40	Flexible Quasiâ€2D Perovskite/IGZO Phototransistors for Ultrasensitive and Broadband Photodetection. Advanced Materials, 2020, 32, e1907527.	21.0	88
41	Substantially Improving Device Performance of Allâ€Inorganic Perovskiteâ€Based Phototransistors via Indium Tin Oxide Nanowire Incorporation. Small, 2020, 16, e1905609.	10.0	33
42	Fullâ€Color Reflective Filters in a Large Area with a Wideâ€Band Tunable Absorber Deposited by Oneâ€Step Magnetron Sputtering. Advanced Optical Materials, 2020, 8, 1901626.	7.3	16
43	In situ electrochemical conversion of cobalt oxide@MOF-74 core-shell structure as an efficient and robust electrocatalyst for water oxidation. Applied Materials Today, 2020, 21, 100820.	4.3	11
44	Efficient and stable electrocatalysts for water splitting. MRS Bulletin, 2020, 45, 531-538.	3.5	10
45	Artificial visual systems enabled by quasiâ€“two-dimensional electron gases in oxide superlattice nanowires. Science Advances, 2020, 6, .	10.3	51
46	Bication-Mediated Quasi-2D Halide Perovskites for High-Performance Flexible Photodetectors: From Ruddlesdenâ€“Popper Type to Dionâ€“Jacobson Type. ACS Applied Materials & Interfaces, 2020, 12, 39567-39577.	8.0	25
47	Controllable optical emission wavelength in all-inorganic halide perovskite alloy microplates grown by two-step chemical vapor deposition. Nano Research, 2020, 13, 2939-2949.	10.4	18
48	Unusual phase-pure zinc blende and highly-crystalline As-rich InAs_{1â^'x}Sb_x nanowires for high-mobility transistors. Journal of Materials Chemistry C, 2020, 8, 13189-13196.	5.5	3
49	Morphology and strain control of hierarchical cobalt oxide nanowire electrocatalysts via solvent effect. Nano Research, 2020, 13, 3130-3136.	10.4	13
50	The origin of gate bias stress instability and hysteresis in monolayer WS2 transistors. Nano Research, 2020, 13, 3278-3285.	10.4	20
51	Flexible Nearâ€Infrared InGaSb Nanowire Array Detectors with Ultrafast Photoconductive Response Below 20 Âµs. Advanced Optical Materials, 2020, 8, 2001201.	7.3	17
52	Face-selective tungstate ions drive zinc oxide nanowire growth direction and dopant incorporation. Communications Materials, 2020, 1, .	6.9	12
53	Perovskite Coreâ€“Shell Nanowire Transistors: Interfacial Transfer Doping and Surface Passivation. ACS Nano, 2020, 14, 12749-12760.	14.6	34
54	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.	5.5	16

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55	Surfaceâ€Guided Formation of Amorphous Mixedâ€Metal Oxyhydroxides on Ultrathin MnO₂ Nanosheet Arrays for Efficient Electrocatalytic Oxygen Evolution. Advanced Energy Materials, 2020, 10, 2001059.	19.5	87
56	Stable Hysteresis-Free MoS₂ Transistors With Low-k/High-k Bilayer Gate Dielectrics. IEEE Electron Device Letters, 2020, 41, 1036-1039.	3.9	10
57	High-mobility In and Ga co-doped ZnO nanowires for high-performance transistors and ultraviolet photodetectors. Nanoscale, 2020, 12, 16153-16161.	5.6	20
58	Enhancing Performance of a GaAs/AlGaAs/GaAs Nanowire Photodetector Based on the Two-Dimensional Electronâ€“Hole Tube Structure. Nano Letters, 2020, 20, 2654-2659.	9.1	106
59	Gate Bias Stress Instability and Hysteresis Characteristics of InAs Nanowire Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 56330-56337.	8.0	13
60	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.	8.0	70
61	Cerium Phosphate as a Novel Cocatalyst Promoting NiCo₂O₄ Nanowire Arrays for Efficient and Robust Electrocatalytic Oxygen Evolution. ACS Applied Energy Materials, 2019, 2, 5769-5776.	5.1	39
62	Incorporating mixed cations in quasi-2D perovskites for high-performance and flexible photodetectors. Nanoscale Horizons, 2019, 4, 1342-1352.	8.0	35
63	Simple and cost effective fabrication of 3D porous coreâ€“shell Ni nanochains@NiFe layered double hydroxide nanosheet bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2019, 7, 21722-21729.	10.3	129
64	Utilizing a NaOH Promoter to Achieve Large Single-Domain Monolayer WS2 Films via Modified Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2019, 11, 35238-35246.	8.0	19
65	Global Photocurrent Generation in Phototransistors Based on Singleâ€Walled Carbon Nanotubes toward Highly Sensitive Infrared Detection. Advanced Optical Materials, 2019, 7, 1900597.	7.3	15
66	Composition tunable inorganic Lead Halide Perovskites microstructures synthesized by single and two-step chemical vapor deposition methods. , 2019, , .		0
67	Two-Dimensional Cobalt Phosphate Hydroxide Nanosheets: A New Type of High-Performance Electrocatalysts with Intrinsic CoO₆ Lattice Distortion for Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 38633-38640.	8.0	31
68	High-Performance Transparent Ultraviolet Photodetectors Based on InGaZnO Superlattice Nanowire Arrays. ACS Nano, 2019, 13, 12042-12051.	14.6	43
69	Recent advances in layered double hydroxide electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 5069-5089.	10.3	422
70	Transparent metal-oxide nanowires and their applications in harsh electronics. Journal of Materials Chemistry C, 2019, 7, 202-217.	5.5	53
71	Crystalline InGaZnO quaternary nanowires with superlattice structure for high-performance thin-film transistors. Nano Research, 2019, 12, 1796-1803.	10.4	20
72	Direct Vaporâ€“Liquidâ€“Solid Synthesis of All-Inorganic Perovskite Nanowires for High-Performance Electronics and Optoelectronics. ACS Nano, 2019, 13, 6060-6070.	14.6	93

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73	Optical Properties of In_{2x}Ga_{2â€“2x}O₃ Nanowires Revealed by Photoacoustic Spectroscopy. ACS Applied Materials & Interfaces, 2019, 11, 19260-19266.	8.0	11
74	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.	10.3	62
75	Enhanced Power Conversion Efficiency in Solutionâ€Processed Rigid CuIn(S,Se) 2 and Flexible Cu(In,Ga)Se 2 Solar Cells Utilizing Plasmonic Auâ€SiO 2 Coreâ€Shell Nanoparticles. Solar Rrl, 2019, 3, 1800343.	5.8	5
76	Ultra-fast photodetectors based on high-mobility indium gallium antimonide nanowires. Nature Communications, 2019, 10, 1664.	12.8	70
77	Incorporation of rare earth elements with transition metalâ€“based materials for electrocatalysis: a review for recent progress. Materials Today Chemistry, 2019, 12, 266-281.	3.5	82
78	Perovskite/Black Phosphorus/MoS₂ Photogate Reversed Photodiodes with Ultrahigh Light On/Off Ratio and Fast Response. ACS Nano, 2019, 13, 4804-4813.	14.6	81
79	Selfâ€Assembly of Colloidal Spheres toward Fabrication of Hierarchical and Periodic Nanostructures for Technological Applications. Advanced Materials Technologies, 2019, 4, 1800541.	5.8	62
80	Recent advances in flexible photodetectors based on 1D nanostructures. Journal of Semiconductors, 2019, 40, 111602.	3.7	15
81	MXene-based wearable bio-sensor. Journal of Semiconductors, 2019, 40, 110202.	3.7	1
82	Preface to the Special Issue on Flexible and Wearable Sensors for Robotics and Health. Journal of Semiconductors, 2019, 40, 110101.	3.7	0
83	Direct Visualization of Grain Boundaries in 2D Monolayer WS₂ via Induced Growth of CdS Nanoparticle Chains. Small Methods, 2019, 3, 1800245.	8.6	26
84	Two-dimensional perovskite materials: From synthesis to energy-related applications. Materials Today Energy, 2019, 11, 61-82.	4.7	133
85	Properties Engineering of IIIâ€“V Nanowires for Electronic Application. Nanostructure Science and Technology, 2019, , 53-82.	0.1	0
86	Modulating Electrical Performances of In₂O₃ Nanofiber Channel Thin Film Transistors via Sr Doping. Advanced Electronic Materials, 2019, 5, 1800707.	5.1	36
87	Recent advances in III-Sb nanowires: from synthesis to applications. Nanotechnology, 2019, 30, 202003.	2.6	26
88	Regulating the surface of nanoceria and its applications in heterogeneous catalysis. Surface Science Reports, 2018, 73, 1-36.	7.2	141
89	Comprehensive Understanding of the Spatial Configurations of CeO₂ in NiO for the Electrocatalytic Oxygen Evolution Reaction: Embedded or Surfaceâ€Loaded. Advanced Functional Materials, 2018, 28, 1706056.	14.9	141
90	High-Index Faceted Porous Co₃O₄ Nanosheets with Oxygen Vacancies for Highly Efficient Water Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 7079-7086.	8.0	179

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91	Roomâ€Temperature Redâ€“Greenâ€“Blue Whisperingâ€Gallery Mode Lasing and Whiteâ€Light Emission from Cesium Lead Halide Perovskite (CsPbX₃, X = Cl, Br, I) Microstructures. Advanced Optical Materials, 2018, 6, 1700993.	7.3	47
92	Amine-Modulated/Engineered Interfaces of NiMo Electrocatalysts for Improved Hydrogen Evolution Reaction in Alkaline Solutions. ACS Applied Materials & Interfaces, 2018, 10, 1728-1733.	8.0	65
93	Wafer-scale synthesis of monolayer WS2 for high-performance flexible photodetectors by enhanced chemical vapor deposition. Nano Research, 2018, 11, 3371-3384.	10.4	190
94	Thinâ€Film Transistors: ZnO Nanofiber Thinâ€Film Transistors with Lowâ€Operating Voltages (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.1	0
95	Enhanced performance of perovskite solar cells based on vertical TiO 2 nanotube arrays with full filling of CH 3 NH 3 PbI 3. Applied Surface Science, 2018, 451, 250-257.	6.1	32
96	Phosphorusâ€Doped MoS₂ Nanosheets Supported on Carbon Cloths as Efficient Hydrogenâ€Generation Electrocatalysts. ChemCatChem, 2018, 10, 1571-1577.	3.7	55
97	Enhanced Negative Photoconductivity in InAs Nanowire Phototransistors Surfaceâ€Modified with Molecular Monolayers. Advanced Materials Interfaces, 2018, 5, 1701104.	3.7	24
98	ZnO Nanofiber Thinâ€Film Transistors with Lowâ€Operating Voltages. Advanced Electronic Materials, 2018, 4, 1700336.	5.1	32
99	High-performance enhancement-mode thin-film transistors based on Mg-doped In2O3 nanofiber networks. Nano Research, 2018, 11, 1227-1237.	10.4	55
100	Orientation controlled GaSb nanowires: from growth to application. , 2018, , .		0
101	Layered Ternary and Quaternary Transition Metal Chalcogenide Based Catalysts for Water Splitting. Catalysts, 2018, 8, 551.	3.5	45
102	Sub-kT/q switching in In₂O₃ nanowire negative capacitance field-effect transistors. Nanoscale, 2018, 10, 19131-19139.	5.6	10
103	Nonpolar-Oriented Wurtzite InP Nanowires with Electron Mobility Approaching the Theoretical Limit. ACS Nano, 2018, 12, 10410-10418.	14.6	30
104	GaAs Nanowires Grown by Catalyst Epitaxy for High Performance Photovoltaics. Crystals, 2018, 8, 347.	2.2	8
105	Semi-solid and solid frustrated Lewis pair catalysts. Chemical Society Reviews, 2018, 47, 5541-5553.	38.1	102
106	Controlled Growth of Heterostructured Ga/GaAs Nanowires with Sharp Schottky Barrier. Crystal Growth and Design, 2018, 18, 4438-4444.	3.0	4
107	Spectroscopic examination of enamel staining by coffee indicates dentin erosion by sequestration of elements. Talanta, 2018, 189, 550-559.	5.5	20
108	Chalcogen passivation: an in-situ method to manipulate theÂmorphology and electrical property of GaAs nanowires. Scientific Reports, 2018, 8, 6928.	3.3	7

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109	Novel Series of Quasi-2D Ruddlesdenâ€“Popper Perovskites Based on Short-Chained Spacer Cation for Enhanced Photodetection. ACS Applied Materials & Interfaces, 2018, 10, 19019-19026.	8.0	75
110	Environmentally and Mechanically Stable Selenium 1D/2D Hybrid Structures for Broad-Range Photoresponse from Ultraviolet to Infrared Wavelengths. ACS Applied Materials & Interfaces, 2018, 10, 35477-35486.	8.0	39
111	Coupling of Nickel Boride and Ni(OH)₂ Nanosheets with Hierarchical Interconnected Conductive Porous Structure Synergizes the Oxygen Evolution Reaction. ChemCatChem, 2018, 10, 4555-4561.	3.7	23
112	Towards high-mobility In2xGa2â€“2xO3 nanowire field-effect transistors. Nano Research, 2018, 11, 5935-5945.	10.4	22
113	High-Performance Near-Infrared Photodetectors Based on p-Type SnX (X = S, Se) Nanowires Grown via Chemical Vapor Deposition. ACS Nano, 2018, 12, 7239-7245.	14.6	101
114	Enhanced Self-Assembly of Crystalline, Large-Area, and Periodicity-Tunable TiO₂ Nanotube Arrays on Various Substrates. ACS Applied Materials & Interfaces, 2017, 9, 6265-6272.	8.0	10
115	Manipulating IIIâ€“V Nanowire Transistor Performance via Surface Decoration of Metalâ€Oxide Nanoparticles. Advanced Materials Interfaces, 2017, 4, 1700260.	3.7	13
116	In situ formation of highly active Niâ€“Fe based oxygen-evolving electrocatalysts via simple reactive dip-coating. Journal of Materials Chemistry A, 2017, 5, 11009-11015.	10.3	85
117	Is platinum a suitable counter electrode material for electrochemical hydrogen evolution reaction?. Science Bulletin, 2017, 62, 971-973.	9.0	59
118	Modulating electronic structure of CoP electrocatalysts towards enhanced hydrogen evolution by Ce chemical doping in both acidic and basic media. Nano Energy, 2017, 38, 290-296.	16.0	212
119	Controllable IIIâ€“V nanowire growth via catalyst epitaxy. Journal of Materials Chemistry C, 2017, 5, 4393-4399.	5.5	17
120	Complementary Metal Oxide Semiconductor-Compatible, High-Mobility, âŸ¨111âŸ©-Oriented GaSb Nanowires Enabled by Vaporâ€“Solidâ€“Solid Chemical Vapor Deposition. ACS Nano, 2017, 11, 4237-4246.	14.6	38
121	Recent developments in IIIâ€“V semiconducting nanowires for high-performance photodetectors. Materials Chemistry Frontiers, 2017, 1, 630-645.	5.9	55
122	Photodetectors: Largeâ€Scale Synthesis of Freestanding Layerâ€Structured PbI₂ and MAPbI₃ Nanosheets for Highâ€Performance Photodetection (Adv. Mater. 39/2017). Advanced Materials, 2017, 29, .	21.0	0
123	Hierarchical Nanostructures: Design for Sustainable Water Splitting. Advanced Energy Materials, 2017, 7, 1700559.	19.5	247
124	Largeâ€Scale Synthesis of Freestanding Layerâ€Structured PbI₂ and MAPbI₃ Nanosheets for Highâ€Performance Photodetection. Advanced Materials, 2017, 29, 1702759.	21.0	111
125	Co₃O₄ Nanosheets with In-Plane Pores and Highly Active {112} Exposed Facets for High Performance Lithium Storage. Journal of Physical Chemistry C, 2017, 121, 19002-19009.	3.1	30
126	Hierarchical Nanostructures: Hierarchical Nanostructures: Design for Sustainable Water Splitting (Adv. Energy Mater. 23/2017). Advanced Energy Materials, 2017, 7, 1770135.	19.5	12

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127	Nanowire Transistors: Manipulating IIIâ€“V Nanowire Transistor Performance via Surface Decoration of Metalâ€Oxide Nanoparticles (Adv. Mater. Interfaces 12/2017). Advanced Materials Interfaces, 2017, 4, .	3.7	0
128	Unraveling the Morphological Evolution and Etching Kinetics of Porous Silicon Nanowires During Metal-Assisted Chemical Etching. Nanoscale Research Letters, 2017, 12, 385.	5.7	27
129	Performance Limits of the Selfâ€Aligned Nanowire Topâ€Gated MoS₂ Transistors. Advanced Functional Materials, 2017, 27, 1602250.	14.9	37
130	Visible to near-infrared photodetectors based on MoS₂vertical Schottky junctions. Nanotechnology, 2017, 28, 484002.	2.6	73
131	Highâ€Sensitivity Floatingâ€Gate Phototransistors Based on WS₂ and MoS₂. Advanced Functional Materials, 2016, 26, 6084-6090.	14.9	124
132	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for Highâ€Performance 2D Field Effect Transistors. Advanced Materials, 2016, 28, 2062-2069.	21.0	65
133	Hierarchical NiMo-based 3D electrocatalysts for highly-efficient hydrogen evolution in alkaline conditions. Nano Energy, 2016, 27, 247-254.	16.0	196
134	Inverted Silicon Nanopencil Array Solar Cells with Enhanced Contact Structures. Scientific Reports, 2016, 6, 34139.	3.3	17
135	Diameter Dependence of Planar Defects in InP Nanowires. Scientific Reports, 2016, 6, 32910.	3.3	13
136	Design and fabrication of 1-D semiconductor nanomaterials for high-performance photovoltaics. Science Bulletin, 2016, 61, 357-367.	9.0	14
137	INTEGRATING SEMICONDUCTOR NANOWIRES FOR HIGH PERFORMANCE FLEXIBLE ELECTRONIC CIRCUITS. , 2016, , 117-165.		0
138	Growth and Photovoltaic Properties of High-Quality GaAs Nanowires Prepared by the Two-Source CVD Method. Nanoscale Research Letters, 2016, 11, 191.	5.7	9
139	Highâ€Performance Ferroelectric Polymer Sideâ€Gated CdS Nanowire Ultraviolet Photodetectors. Advanced Functional Materials, 2016, 26, 7690-7696.	14.9	107
140	On-Nanowire Axial Heterojunction Design for High-Performance Photodetectors. ACS Nano, 2016, 10, 8474-8481.	14.6	88
141	Sideâ€Gated In₂O₃ Nanowire Ferroelectric FETs for Highâ€Performance Nonvolatile Memory Applications. Advanced Science, 2016, 3, 1600078.	11.2	41
142	Crystal Orientation Controlled Photovoltaic Properties of Multilayer GaAs Nanowire Arrays. ACS Nano, 2016, 10, 6283-6290.	14.6	22
143	High-Performance Wrap-Gated InGaAs Nanowire Field-Effect Transistors with Sputtered Dielectrics. Scientific Reports, 2015, 5, 16871.	3.3	20
144	Integration of Highâ€k Oxide on MoS₂ by Using Ozone Pretreatment for Highâ€Performance MoS₂ Topâ€Gated Transistor with Thicknessâ€Dependent Carrier Scattering Investigation. Small, 2015, 11, 5932-5938.	10.0	74

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145	Thermoplasmonics-assisted nanoheterostructured Au-decorated CuInS2 nanoparticles: Matching solar spectrum absorption and its application on selective distillation of non-polar solvent systems by thermal solar energy. Nano Energy, 2015, 15, 470-478.	16.0	22
146	Modulating the Morphology and Electrical Properties of GaAs Nanowires via Catalyst Stabilization by Oxygen. ACS Applied Materials & Interfaces, 2015, 7, 5591-5597.	8.0	16
147	Photodetectors: High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios (Small 8/2015). Small, 2015, 11, 890-890.	10.0	2
148	Modulating Electrical Properties of InAs Nanowires via Molecular Monolayers. ACS Nano, 2015, 9, 7545-7552.	14.6	33
149	Hydrogen gas sensor based on metal oxide nanoparticles decorated graphene transistor. Nanoscale, 2015, 7, 10078-10084.	5.6	163
150	Insight into the electrochemical activation of carbon-based cathodes for hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 13080-13086.	10.3	198
151	High-Performance GaAs Nanowire Solar Cells for Flexible and Transparent Photovoltaics. ACS Applied Materials & Interfaces, 2015, 7, 20454-20459.	8.0	58
152	Approaching the Hole Mobility Limit of GaSb Nanowires. ACS Nano, 2015, 9, 9268-9275.	14.6	70
153	Area-Selective Atomic Layer Deposition: Conformal Coating, Subnanometer Thickness Control, and Smart Positioning. ACS Nano, 2015, 9, 8651-8654.	14.6	93
154	High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios. Small, 2015, 11, 936-942.	10.0	166
155	Floating Gate Memory-based Monolayer MoS₂Transistor with Metal Nanocrystals Embedded in the Gate Dielectrics. Small, 2015, 11, 208-213.	10.0	102
156	Nanowires: Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8232-8232.	21.0	9
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