Yu Huang

List of Publications by Year in descending order

370 papers	63,031 citations	1027 117 h-index	1013 243 g-index
388 all docs	388 docs citations	388 times ranked	64384 citing authors

#	Article	IF	Citations
1	1D PtCo nanowires as catalysts for PEMFCs with low Pt loading. Science China Materials, 2022, 65, 704-711.	3.5	16
2	Defect passivation and interface modification by tetra-n-octadecyl ammonium bromide for efficient and stable inverted perovskite solar cells. Chemical Engineering Journal, 2022, 429, 132426.	6.6	24
3	Facile and green synthesis of carbon nanopinnacles for the removal of chlortetracycline: Performance, mechanism and biotoxicity. Chemical Engineering Journal, 2022, 433, 133822.	6.6	38
4	Noble Metal Based Electrocatalysts for Alcohol Oxidation Reactions in Alkaline Media. Advanced Functional Materials, 2022, 32, .	7.8	70
5	Crystallization Kinetics Control Enabled by a Green Ionic Liquid Additive toward Efficient and Stable Carbon-Based Mesoscopic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 9161-9171.	4.0	19
6	Highly stretchable van der Waals thin films for adaptable and breathable electronic membranes. Science, 2022, 375, 852-859.	6.0	96
7	Enhanced Performance of Carbonâ€Based, Fully Printed Mesoscopic Perovskite Solar Cells through Defects Passivation. Advanced Materials Interfaces, 2022, 9, .	1.9	3
8	Perovskite Films Treated with Polyvinyl Pyrrolidone for High-Performance Inverted Perovskite Solar Cells. ACS Applied Energy Materials, 2022, 5, 4448-4460.	2.5	12
9	Engineering cerebral folding in brain organoids. Neural Regeneration Research, 2022, 17, 2420.	1.6	3
10	Outstanding Ferroelectricity in Solâ€“Gel-Derived Polycrystalline BiFeO‹sub›3‹/sub› Films within a Wide Thickness Range. ACS Applied Materials & Interfaces, 2022, 14, 21696-21704.	4.0	11
11	Stability of Platinumâ€Groupâ€Metalâ€Based Electrocatalysts in Proton Exchange Membrane Fuel Cells. Advanced Functional Materials, 2022, 32, .	7.8	25
12	Experimental Sabatier plot for predictive design of active and stable Pt-alloy oxygen reduction reaction catalysts. Nature Catalysis, 2022, 5, 513-523.	16.1	57
13	Chiral molecular intercalation superlattices. Nature, 2022, 606, 902-908.	13.7	67
14	A Redox-Responsive, In-Situ Polymerized Polyplatinum(IV)-Coated Gold Nanorod as An Amplifier of Tumor Accumulation for Enhanced Thermo-Chemotherapy. Biomaterials, 2021, 266, 120400.	5.7	26
15	Elastic ceramic aerogels for thermal superinsulation under extreme conditions. Materials Today, 2021, 42, 162-177.	8.3	73
16	Ultraâ€Steep Slope Impact Ionization Transistors Based on Graphene/InAs Heterostructures. Small Structures, 2021, 2, 2000039.	6.9	11
17	Van der Waals Heterostructures by Design: From 1D and 2D to 3D. Matter, 2021, 4, 552-581.	5.0	83
18	Study on patterned photodynamic cross-linking for keratoconus. Experimental Eye Research, 2021, 204, 108450.	1.2	5

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19	Van der Waals epitaxial growth of air-stable CrSe2 nanosheets with thickness-tunable magnetic order. Nature Materials, 2021, 20, 818-825.	13.3	206
20	High-order superlattices by rolling up van der Waals heterostructures. Nature, 2021, 591, 385-390.	13.7	163
21	Toward Rational Design of Single-Atom Catalysts. Journal of Physical Chemistry Letters, 2021, 12, 2837-2847.	2.1	45
22	Promises and prospects of two-dimensional transistors. Nature, 2021, 591, 43-53.	13.7	548
23	Simultaneously achieved highâ€energy storage density and efficiency in (K,Na)NbO₃â€based leadâ€free ferroelectric films. Journal of the American Ceramic Society, 2021, 104, 4119-4130.	1.9	27
24	Mieâ€Resonanceâ€Enhanced Visible Light Absorption in Dielectricâ€Supported Small Pt Nanoparticles for Photocatalysis. Annalen Der Physik, 2021, 533, 2000557.	0.9	6
25	Optimized MoP with Pseudo-Single-Atom Tungsten for Efficient Hydrogen Electrocatalysis. Chemistry of Materials, 2021, 33, 3639-3649.	3.2	20
26	Layered Intercalation Materials. Advanced Materials, 2021, 33, e2004557.	11.1	92
27	Anomalous effects of dielectric coated plasmonic metal nanoparticles on solar absorption enhancement in perovskite thin films. Journal Physics D: Applied Physics, 2021, 54, 305501.	1.3	5
28	Tailoring the Pt Surface Oxophilicity Via Single-Atom Rh Doping for Boosting Hydrogen Oxidation/Evolution Reaction in Alkaline Electrolyte. ECS Meeting Abstracts, 2021, MA2021-01, 1233-1233.	0.0	0
29	Poly(3,4â€ethylenedioxythiophene)â€poly(styrenesulfonate) Modified by Water for Efficient Inverted Perovskite Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100066.	0.8	1
30	Direct correlation of oxygen adsorption on platinum-electrolyte interfaces with the activity in the oxygen reduction reaction. Science Advances, 2021, 7, .	4.7	44
31	Chemical vapour deposition of Feâ€“Nâ€“C oxygen reduction catalysts with full utilization of dense Feâ€“N4 sites. Nature Materials, 2021, 20, 1385-1391.	13.3	359
32	Multifunctional passivation strategy based on tetraoctylammonium bromide for efficient inverted perovskite solar cells. Nano Energy, 2021, 84, 105882.	8.2	46
33	Plasmonic Newton's cradle for low-loss subwavelength energy transport: Homogeneous or heterogeneous nanoparticle chains?. Current Applied Physics, 2021, 27, 66-72.	1.1	1
34	Intimate atomic Cu-Ag interfaces for high CO2RR selectivity towards CH4 at low over potential. Nano Research, 2021, 14, 3497-3501.	5.8	54
35	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. CheM, 2021, 7, 1887-1902.	5.8	36
36	Constructing defect-related subband in silver indium sulfide QDs via pH-dependent oriented aggregation for boosting photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2021, 593, 222-230.	5.0	11

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37	Expanding the scope of antennaâ€“reactor photocatalysts for strong visible light absorption in small transition metal nanoparticles. Applied Physics Letters, 2021, 119, .	1.5	5
38	All-Inorganic Flexible (K, Na)NbO₃-Based Lead-Free Piezoelectric Thin Films Spin-Coated on Metallic Foils. ACS Applied Materials & Interfaces, 2021, 13, 39633-39640.	4.0	10
39	Two-dimensional van der Waals thin film transistors as active matrix for spatially resolved pressure sensing. Nano Research, 2021, 14, 3395-3401.	5.8	19
40	Synergistic Effect of Defect Passivation and Crystallization Control Enabled by Bifunctional Additives for Carbon-Based Mesoscopic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 45435-45445.	4.0	12
41	Silver nanoparticles boost charge-extraction efficiency in Shewanella microbial fuel cells. Science, 2021, 373, 1336-1340.	6.0	171
42	Large-Area Synthesis and Patterning of All-Inorganic Lead Halide Perovskite Thin Films and Heterostructures. Nano Letters, 2021, 21, 1454-1460.	4.5	27
43	Tailoring morphologies of mesoporous polydopamine nanoparticles to deliver high-loading radioiodine for anaplastic thyroid carcinoma imaging and therapy. Nanoscale, 2021, 13, 15021-15030.	2.8	16
44	Approaching the intrinsic exciton physics limit in two-dimensional semiconductor diodes. Nature, 2021, 599, 404-410.	13.7	57
45	Effects of Gelatin Methacrylate Hydrogel on Corneal Repair and Regeneration in Rats. Translational Vision Science and Technology, 2021, 10, 25.	1.1	8
46	Reducing the loss of electric field enhancement for plasmonic coreâ€“shell nanoparticle dimers by high refractive index dielectric coating. Journal of Physics Condensed Matter, 2020, 32, 105001.	0.7	13
47	Perovskite Lightâ€Emitting Diodes: Surfaceâ€2D/Bulkâ€3D Heterophased Perovskite Nanograins for Longâ€Termâ€Stable Lightâ€Emitting Diodes (Adv. Mater. 1/2020). Advanced Materials, 2020, 32, 2070007.	11.1	3
48	Evolution Pathway from Iron Compounds to Fe₁(II)â€“N₄ Sites through Gas-Phase Iron during Pyrolysis. Journal of the American Chemical Society, 2020, 142, 1417-1423.	6.6	185
49	Surfaceâ€2D/Bulkâ€3D Heterophased Perovskite Nanograins for Longâ€Termâ€Stable Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e1905674.	11.1	59
50	Hermetic seal for perovskite solar cells: An improved plasma enhanced atomic layer deposition encapsulation. Nano Energy, 2020, 69, 104375.	8.2	78
51	Tungsten as â€œAdhesiveâ€•in Pt₂CuW_{0.25} Ternary Alloy for Highly Durable Oxygen Reduction Electrocatalysis. Advanced Functional Materials, 2020, 30, 1908230.	7.8	59
52	Beyond Extended Surfaces: Understanding the Oxygen Reduction Reaction on Nanocatalysts. Journal of the American Chemical Society, 2020, 142, 17812-17827.	6.6	134
53	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Matter, 2020, 3, 1774-1790.	5.0	71
54	Probing photoelectrical transport in lead halide perovskites with van der Waals contacts. Nature Nanotechnology, 2020, 15, 768-775.	15.6	63

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55	Interpretable molecular models for molybdenum disulfide and insight into selective peptide recognition. Chemical Science, 2020, 11, 8708-8722.	3.7	32
56	Enhancement of oxygen reduction reaction activity by grain boundaries in platinum nanostructures. Nano Research, 2020, 13, 3310-3314.	5.8	17
57	Solid-phase hetero epitaxial growth of Î±-phase formamidinium perovskite. Nature Communications, 2020, 11, 5514.	5.8	71
58	A fundamental look at electrocatalytic sulfur reduction reaction. Nature Catalysis, 2020, 3, 762-770.	16.1	455
59	Robust Flexible Pressure Sensors Made from Conductive Micropyramids for Manipulation Tasks. ACS Nano, 2020, 14, 12866-12876.	7.3	106
60	Highly active and stable stepped Cu surface for enhanced electrochemical CO2 reduction to C2H4. Nature Catalysis, 2020, 3, 804-812.	16.1	298
61	Emerging Artificial Two-Dimensional van der Waals Heterostructures for Optoelectronics. , 2020, , .		2
62	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general hostâ€“guest strategy. Nature Chemistry, 2020, 12, 764-772.	6.6	452
63	Redox Control of Charge Transport in Vertical Ferrocene Molecular Tunnel Junctions. CheM, 2020, 6, 1172-1182.	5.8	40
64	General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.	13.7	393
65	A Polymerizationâ€Assisted Grain Growth Strategy for Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2020, 32, e1907769.	11.1	161
66	Band structure engineered tunneling heterostructures for high-performance visible and near-infrared photodetection. Science China Materials, 2020, 63, 1537-1547.	3.5	81
67	Impact of texturing on the phase transitions in solâ€“gelâ€processed Bi(Sm)FeO 3 thin films on LaNiO 3 â€buffered silicon. Journal of the American Ceramic Society, 2020, 103, 6554-6564.	1.9	6
68	Molecular Design of Singleâ€Atom Catalysts for Oxygen Reduction Reaction. Advanced Energy Materials, 2020, 10, 1903815.	10.2	295
69	Fluorescence resonance energy transfer-based drug delivery systems for enhanced photodynamic therapy. Journal of Materials Chemistry B, 2020, 8, 3772-3788.	2.9	41
70	Highly Reliable Low-Voltage Memristive Switching and Artificial Synapse Enabled by van der Waals Integration. Matter, 2020, 2, 965-976.	5.0	40
71	Doping on demand in 2D devices. Nature Electronics, 2020, 3, 77-78.	13.1	18
72	Enhancing local electric fields at plasmonic nanogaps by optimal dielectric coatings. Journal Physics D: Applied Physics, 2020, 53, 155103.	1.3	11

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73	van der Waals Integrated Devices Based on Nanomembranes of 3D Materials. Nano Letters, 2020, 20, 1410-1416.	4.5	19
74	Sensitive pressure sensors based on conductive microstructured air-gap gates and two-dimensional semiconductor transistors. Nature Electronics, 2020, 3, 59-69.	13.1	150
75	Pt3Ag alloy wavy nanowires as highly effective electrocatalysts for ethanol oxidation reaction. Nano Research, 2020, 13, 1472-1478.	5.8	58
76	Suppressed threshold voltage roll-off and ambipolar transport in multilayer transition metal dichalcogenide feed-back gate transistors. Nano Research, 2020, 13, 1943-1947.	5.8	5
77	Application of Spherical Polyelectrolyte Brushes Microparticle System in Flocculation and Retention. Polymers, 2020, 12, 746.	2.0	3
78	Steric Impediment of Ion Migration Contributes to Improved Operational Stability of Perovskite Solar Cells. Advanced Materials, 2020, 32, e1906995.	11.1	142
79	Compressed Intermetallic PdCu for Enhanced Electrocatalysis. ACS Energy Letters, 2020, 5, 3672-3680.	8.8	50
80	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. Nature Electronics, 2020, 3, 630-637.	13.1	61
81	Graphene-enabled reconfigurable terahertz wavefront modulator based on complete Fermi level modulated phase. New Journal of Physics, 2020, 22, 063054.	1.2	10
82	(Invited) Engineered Cu Surface for Efficient CO2RR. ECS Meeting Abstracts, 2020, MA2020-01, 1745-1745.	0.0	0
83	Doping engineering and functionalization of two-dimensional metal chalcogenides. Nanoscale Horizons, 2019, 4, 26-51.	4.1	238
84	3D Structure Determination of Pt-based Nanocatalysts at Atomic Resolution. Microscopy and Microanalysis, 2019, 25, 398-399.	0.2	0
85	PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. Nano Letters, 2019, 19, 5431-5436.	4.5	93
86	Nanowire Electronics: From Nanoscale to Macroscale. Chemical Reviews, 2019, 119, 9074-9135.	23.0	210
87	Reconfigurable two-dimensional optoelectronic devices enabled by local ferroelectric polarization. Nature Communications, 2019, 10, 3331.	5.8	151
88	Enhancing the plasmonic fields by a high refractive index dielectric coating for surface enhanced spectroscopies. Journal Physics D: Applied Physics, 2019, 52, 43LT01.	1.3	11
89	Bimolecular Additives Improve Wide-Band-Gap Perovskites for Efficient Tandem Solar Cells with CIGS. Joule, 2019, 3, 1734-1745.	11.7	227
90	SnSe/MoS₂ van der Waals Heterostructure Junction Fieldâ€Effect Transistors with Nearly Ideal Subthreshold Slope. Advanced Materials, 2019, 31, e1902962.	11.1	49

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91	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. Matter, 2019, 1, 1567-1580.	5.0	82
92	Selective interaction between graphene and a multifunctional metamirror in the near-infrared region. Journal Physics D: Applied Physics, 2019, 52, 495104.	1.3	2
93	Ultra-high Areal Capacity Realized in Three-Dimensional Holey Graphene/SnO2 Composite Anodes. IScience, 2019, 19, 728-736.	1.9	40
94	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. Nano Letters, 2019, 19, 6819-6826.	4.5	72
95	Van der Waals thin-film electronics. Nature Electronics, 2019, 2, 378-388.	13.1	131
96	Perovskite-polymer composite cross-linker approach for highly-stable and efficient perovskite solar cells. Nature Communications, 2019, 10, 520.	5.8	405
97	Unifying the Hydrogen Evolution and Oxidation Reactions Kinetics in Base by Identifying the Catalytic Roles of Hydroxyl-Water-Cation Adducts. Journal of the American Chemical Society, 2019, 141, 3232-3239.	6.6	220
98	A field-effect approach to directly profiling the localized states in monolayer MoS2. Science Bulletin, 2019, 64, 1049-1055.	4.3	5
99	Ptâ€Based Nanocrystal for Electrocatalytic Oxygen Reduction. Advanced Materials, 2019, 31, e1808115.	11.1	260
100	In Situ Transmission Electron Microscopy for Energy Materials and Devices. Advanced Materials, 2019, 31, e1900608.	11.1	95
101	Optimizing Ag-Pt core-shell nanostructures for solar energy conversion, plasmonic photocatalysis, and photothermal catalysis. Applied Physics Letters, 2019, 114, .	1.5	26
102	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503.	16.1	464
103	A NIR-triggered gatekeeper of supramolecular conjugated unimicelles with two-photon absorption for controlled drug release. Chemical Communications, 2019, 55, 6735-6738.	2.2	20
104	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. Nano Letters, 2019, 19, 3730-3736.	4.5	44
105	Synthesis of surface controlled nickel/palladium hydride nanodendrites with high performance in benzyl alcohol oxidation. Nano Research, 2019, 12, 1467-1472.	5.8	29
106	Caffeine Improves the Performance and Thermal Stability of Perovskite Solar Cells. Joule, 2019, 3, 1464-1477.	11.7	448
107	Van der Waals integration before and beyond two-dimensional materials. Nature, 2019, 567, 323-333.	13.7	946
108	Hollow Loofahâ€Like N, Oâ€Coâ€Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. Advanced Functional Materials, 2019, 29, 1900015.	7.8	68

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109	Self-Assembled Molecular-Electronic Films Controlled by Room Temperature Quantum Interference. CheM, 2019, 5, 474-484.	5.8	45
110	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429
111	Path Planning for Unmanned Vehicle with Searching for Sources of Dangerous Gas Leaks. , 2019, , .		0
112	Dangerous gas traceability route planning for Four- rotor UAV based on the weighted centroid method. , 2019, , .		2
113	Germanium/perovskite heterostructure for high-performance and broadband photodetector from visible to infrared telecommunication band. Light: Science and Applications, 2019, 8, 106.	7.7	172
114	Single atom electrocatalysts supported on graphene or graphene-like carbons. Chemical Society Reviews, 2019, 48, 5207-5241.	18.7	441
115	Nanoscale Structure Design for Highâ€Performance Ptâ€Based ORR Catalysts. Advanced Materials, 2019, 31, e1802234.	11.1	478
116	Hierarchical 3D electrodes for electrochemical energy storage. Nature Reviews Materials, 2019, 4, 45-60.	23.3	554
117	Long-Range Hierarchical Nanocrystal Assembly Driven by Molecular Structural Transformation. Journal of the American Chemical Society, 2019, 141, 1498-1505.	6.6	21
118	Study on ultrasonic techniques for enhancing the separation process of membrane. Ultrasonics Sonochemistry, 2019, 55, 341-347.	3.8	35
119	Maximizing the Current Output in Self-Aligned Grapheneâ€“InAsâ€“Metal Vertical Transistors. ACS Nano, 2019, 13, 847-854.	7.3	23
120	A Highly Active Star Decahedron Cu Nanocatalyst for Hydrocarbon Production at Low Overpotentials. Advanced Materials, 2019, 31, e1805405.	11.1	134
121	High-Performance Black Phosphorus Field-Effect Transistors with Long-Term Air Stability. Nano Letters, 2019, 19, 331-337.	4.5	62
122	Ultrathin wavy Rh nanowires as highly effective electrocatalysts for methanol oxidation reaction with ultrahigh ECSA. Nano Research, 2019, 12, 211-215.	5.8	66
123	Optimisation of the clustered regularly interspaced short palindromic repeats (CRISPR)/Cas9 : single-guide RNA (sgRNA) delivery system in a goat model. Reproduction, Fertility and Development, 2019, 31, 1533.	0.1	4
124	(Invited) Surface Engineered Ptm-O Alloy for High Hydrogen Evolution Reaction Rate at Low Overpotential. ECS Meeting Abstracts, 2019, , .	0.0	0
125	(Invited) Creating High-Performance Pt-Based ORR Catalysts through Surface Engineering. ECS Meeting Abstracts, 2019, , .	0.0	0
126	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. Research, 2019, 2019, 8304824.	2.8	2

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127	Monolayer atomic crystal molecular superlattices. Nature, 2018, 555, 231-236.	13.7	323
128	On-Chip in Situ Monitoring of Competitive Interfacial Anionic Chemisorption as a Descriptor for Oxygen Reduction Kinetics. ACS Central Science, 2018, 4, 590-599.	5.3	29
129	Fewâ€Layer GeAs Fieldâ€Effect Transistors and Infrared Photodetectors. Advanced Materials, 2018, 30, e1705934.	11.1	100
130	Synergistically Enhanced Oxygen Reduction Electrocatalysis by Subsurface Atoms in Ternary PdCuNi Alloy Catalysts. Advanced Functional Materials, 2018, 28, 1707219.	7.8	58
131	Detailed correlations between SERS enhancement and plasmon resonances in subwavelength closely spaced Au nanorod arrays. Nanoscale, 2018, 10, 4267-4275.	2.8	40
132	Roles of Mo Surface Dopants in Enhancing the ORR Performance of Octahedral PtNi Nanoparticles. Nano Letters, 2018, 18, 798-804.	4.5	162
133	General synthesis and definitive structural identification of MN4C4 single-atom catalysts with tunable electrocatalytic activities. Nature Catalysis, 2018, 1, 63-72.	16.1	1,476
134	Anomalous spectral correlations between SERS enhancement and far-field optical responses in roughened Au mesoparticles. Applied Physics Letters, 2018, 112, 171906.	1.5	10
135	Unraveling the mechanisms of room-temperature catalytic degradation of indoor formaldehyde and its biocompatibility on colloidal TiO₂-supported MnO_xâ€“CeO₂. Environmental Science: Nano, 2018, 5, 1130-1139.	2.2	21
136	Broadband gate-tunable terahertz plasmons in graphene heterostructures. Nature Photonics, 2018, 12, 22-28.	15.6	127
137	Highly-anisotropic optical and electrical properties in layered SnSe. Nano Research, 2018, 11, 554-564.	5.8	114
138	Tailored Phase Conversion under Conjugated Polymer Enables Thermally Stable Perovskite Solar Cells with Efficiency Exceeding 21%. Journal of the American Chemical Society, 2018, 140, 17255-17262.	6.6	235
139	Surface enhanced perfect absorption in metamaterials with periodic dielectric nanostrips on silver film. Optics Express, 2018, 26, 30873.	1.7	13
140	Building two-dimensional materials one row at a time: Avoiding the nucleation barrier. Science, 2018, 362, 1135-1139.	6.0	155
141	Solution-processable 2D semiconductors for high-performance large-area electronics. Nature, 2018, 562, 254-258.	13.7	644
142	Quantum interference mediated vertical molecular tunneling transistors. Science Advances, 2018, 4, eaat8237.	4.7	64
143	Synthetic Control of Two-Dimensional NiTe₂ Single Crystals with Highly Uniform Thickness Distributions. Journal of the American Chemical Society, 2018, 140, 14217-14223.	6.6	119
144	A pestle and mortar approach for room temperature defect engineering in metal oxides. Science China Materials, 2018, 61, 1363-1364.	3.5	1

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145	Platinum(IV) complex-based two-in-one polyprodrug for a combinatorial chemo-photodynamic therapy. Biomaterials, 2018, 177, 67-77.	5.7	82
146	Understanding Chemical Bonding in Alloys and the Representation in Atomistic Simulations. Journal of Physical Chemistry C, 2018, 122, 14996-15009.	1.5	30
147	Approaching the Schottkyâ€“Mott limit in van der Waals metalâ€“semiconductor junctions. Nature, 2018, 557, 696-700.	13.7	1,279
148	2D perovskite stabilized phase-pure formamidinium perovskite solar cells. Nature Communications, 2018, 9, 3021.	5.8	575
149	Dirac semimetals based tunable narrowband absorber at terahertz frequencies. Optics Express, 2018, 26, 11471.	1.7	108
150	Unexpected large nanoparticle size of single dimer hotspot systems for broadband SERS enhancement. Optics Letters, 2018, 43, 2332.	1.7	30
151	Two-dimensional transistors beyond graphene and TMDCs. Chemical Society Reviews, 2018, 47, 6388-6409.	18.7	301
152	Improvement by Channel Recess of Contact Resistance and Gate Control in Large-Scale Spin-Coated MoS₂ MOSFETs. IEEE Electron Device Letters, 2018, 39, 1453-1456.	2.2	6
153	Surface-Engineered PtNi-O Nanostructure with Record-High Performance for Electrocatalytic Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2018, 140, 9046-9050.	6.6	379
154	Microwaveâ€Assisted Rapid Synthesis of Grapheneâ€Supported Single Atomic Metals. Advanced Materials, 2018, 30, e1802146.	11.1	244
155	Fabrication of Activity-Reporting Glucose Oxidase Nanocapsules with Oxygen-Independent Fluorescence Variation. ACS Applied Materials & Interfaces, 2018, 10, 26005-26015.	4.0	11
156	Small morphology variations effects on plasmonic nanoparticle dimer hotspots. Journal of Materials Chemistry C, 2018, 6, 9607-9614.	2.7	37
157	Gate-tunable frequency combs in grapheneâ€“nitride microresonators. Nature, 2018, 558, 410-414.	13.7	182
158	Molecular ligand modulation of palladium nanocatalysts for highly efficient and robust heterogeneous oxidation of cyclohexenone to phenol. Science Advances, 2017, 3, e1600615.	4.7	24
159	Improved ethanol electrooxidation performance by shortening Pdâ€“Ni active site distance in Pdâ€“Niâ€“P nanocatalysts. Nature Communications, 2017, 8, 14136.	5.8	351
160	Nanoparticle delivery of Wnt-1 siRNA enhances photodynamic therapy by inhibiting epithelialâ€“mesenchymal transition for oral cancer. Biomaterials Science, 2017, 5, 494-501.	2.6	47
161	Ambipolar Barristors for Reconfigurable Logic Circuits. Nano Letters, 2017, 17, 1448-1454.	4.5	29
162	Nanoparticle-on-mirror cavity modes for huge and/or tunable plasmonic field enhancement. Nanotechnology, 2017, 28, 105203.	1.3	40

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163	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. Science, 2017, 356, 599-604.	6.0	1,229
164	Analytical plasmon dispersion in subwavelength closely spaced Au nanorod arrays from planar metalâ€“insulatorâ€“metal waveguides. Journal of Materials Chemistry C, 2017, 5, 6079-6085.	2.7	15
165	Nanostructured Materials and Architectures for Advanced Infrared Photodetection. Advanced Materials Technologies, 2017, 2, 1700005.	3.0	87
166	Colorâ€Convertible, Unimolecular, Micelleâ€Based, Activatable Fluorescent Probe for Tumorâ€Specific Detection and Imaging In Vitro and In Vivo. Small, 2017, 13, 1604062.	5.2	28
167	A Solution Processable Highâ€Performance Thermoelectric Copper Selenide Thin Film. Advanced Materials, 2017, 29, 1606662.	11.1	96
168	Gate-Induced Insulator to Band-Like Transport Transition in Organolead Halide Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 429-434.	2.1	20
169	Vertical Charge Transport and Negative Transconductance in Multilayer Molybdenum Disulfides. Nano Letters, 2017, 17, 5495-5501.	4.5	42
170	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. Science Advances, 2017, 3, e1603068.	4.7	224
171	Selfâ€Assembled Polyprodrug Amphiphile for Subcutaneous Xenograft Tumor Inhibition with Prolonged Acting Time In Vivo. Macromolecular Bioscience, 2017, 17, 1700174.	2.1	25
172	Prodrug-embedded angiogenic vessel-targeting nanoparticle: A positive feedback amplifier in hypoxia-induced chemo-photo therapy. Biomaterials, 2017, 144, 188-198.	5.7	57
173	Graphene Surface Plasmons With Dielectric Metasurfaces. Journal of Lightwave Technology, 2017, 35, 4553-4558.	2.7	88
174	3D Imaging of Nanoalloy Catalysts at Atomic Resolution. Microscopy and Microanalysis, 2017, 23, 2032-2033.	0.2	0
175	Layer-by-Layer Degradation of Methylammonium Lead Tri-iodide Perovskite Microplates. Joule, 2017, 1, 548-562.	11.7	199
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