

# Yu Huang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

359  
papers

47,578  
citations

103  
h-index

214  
g-index

388  
ext. papers

55,359  
ext. citations

15  
avg, IF

7.84  
L-index

#	Paper	IF	Citations
359	Crystallization Kinetics Control Enabled by a Green Ionic Liquid Additive toward Efficient and Stable Carbon-Based Mesoscopic Perovskite Solar Cells.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
358	Defect passivation and interface modification by tetra-n-octadecyl ammonium bromide for efficient and stable inverted perovskite solar cells. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132426	14.7	3
357	Highly stretchable van der Waals thin films for adaptable and breathable electronic membranes.. <i>Science</i> , <b>2022</b> , 375, 852-859	33.3	21
356	Engineering cerebral folding in brain organoids.. <i>Neural Regeneration Research</i> , <b>2022</b> , 17, 2420-2422	4.5	
355	Facile and green synthesis of carbon nanopinnacles for the removal of chlortetracycline: Performance, mechanism and biotoxicity. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133822	14.7	2
354	Approaching the intrinsic exciton physics limit in two-dimensional semiconductor diodes. <i>Nature</i> , <b>2021</b> , 599, 404-410	50.4	7
353	Study on patterned photodynamic cross-linking for keratoconus. <i>Experimental Eye Research</i> , <b>2021</b> , 204, 108450	3.7	2
352	Van der Waals epitaxial growth of air-stable CrSe nanosheets with thickness-tunable magnetic order. <i>Nature Materials</i> , <b>2021</b> , 20, 818-825	27	68
351	High-order superlattices by rolling up van der Waals heterostructures. <i>Nature</i> , <b>2021</b> , 591, 385-390	50.4	47
350	Toward Rational Design of Single-Atom Catalysts. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2837-2847	14.7	15
349	Promises and prospects of two-dimensional transistors. <i>Nature</i> , <b>2021</b> , 591, 43-53	50.4	143
348	Simultaneously achieved high-energy storage density and efficiency in (K,Na)NbO <sub>3</sub> -based lead-free ferroelectric films. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 4119-4130	3.8	9
347	Mie-Resonance-Enhanced Visible Light Absorption in Dielectric-Supported Small Pt Nanoparticles for Photocatalysis. <i>Annalen Der Physik</i> , <b>2021</b> , 533, 2000557	2.6	4
346	Optimized MoP with Pseudo-Single-Atom Tungsten for Efficient Hydrogen Electrocatalysis. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3639-3649	9.6	4
345	Layered Intercalation Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004557	24	37
344	Anomalous effects of dielectric coated plasmonic metal nanoparticles on solar absorption enhancement in perovskite thin films. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 305501	3	2
343	Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) Modified by Water for Efficient Inverted Perovskite Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2100066	1.6	1

342	Direct correlation of oxygen adsorption on platinum-electrolyte interfaces with the activity in the oxygen reduction reaction. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	11
341	Chemical vapour deposition of Fe-N-C oxygen reduction catalysts with full utilization of dense Fe-N sites. <i>Nature Materials</i> , <b>2021</b> , 20, 1385-1391	27	96
340	Multifunctional passivation strategy based on tetraoctylammonium bromide for efficient inverted perovskite solar cells. <i>Nano Energy</i> , <b>2021</b> , 84, 105882	17.1	20
339	A Redox-Responsive, In-Situ Polymerized Polyplatinum(IV)-Coated Gold Nanorod as An Amplifier of Tumor Accumulation for Enhanced Thermo-Chemotherapy. <i>Biomaterials</i> , <b>2021</b> , 266, 120400	15.6	13
338	Elastic ceramic aerogels for thermal superinsulation under extreme conditions. <i>Materials Today</i> , <b>2021</b> , 42, 162-177	21.8	19
337	Ultra-Steep Slope Impact Ionization Transistors Based on Graphene/InAs Heterostructures. <i>Small Structures</i> , <b>2021</b> , 2, 2000039	8.7	6
336	Van der Waals Heterostructures by Design: From 1D and 2D to 3D. <i>Matter</i> , <b>2021</b> , 4, 552-581	12.7	19
335	Plasmonic Newton's cradle for low-loss subwavelength energy transport: Homogeneous or heterogeneous nanoparticle chains?. <i>Current Applied Physics</i> , <b>2021</b> , 27, 66-72	2.6	1
334	Intimate atomic Cu-Ag interfaces for high CO <sub>2</sub> RR selectivity towards CH <sub>4</sub> at low over potential. <i>Nano Research</i> , <b>2021</b> , 14, 3497-3501	10	17
333	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. <i>CheM</i> , <b>2021</b> , 7, 1887-1902	16.2	8
332	Constructing defect-related subband in silver indium sulfide QDs via pH-dependent oriented aggregation for boosting photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 593, 222-230	9.3	3
331	Expanding the scope of antenna-reactor photocatalysts for strong visible light absorption in small transition metal nanoparticles. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 043903	3.4	0
330	All-Inorganic Flexible (K, Na)NbO <sub>3</sub> -Based Lead-Free Piezoelectric Thin Films Spin-Coated on Metallic Foils. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 39633-39640	9.5	3
329	Two-dimensional van der Waals thin film transistors as active matrix for spatially resolved pressure sensing. <i>Nano Research</i> , <b>2021</b> , 14, 3395-3401	10	1
328	Synergistic Effect of Defect Passivation and Crystallization Control Enabled by Bifunctional Additives for Carbon-Based Mesoscopic Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 45435-45445	9.5	6
327	Silver nanoparticles boost charge-extraction efficiency in microbial fuel cells. <i>Science</i> , <b>2021</b> , 373, 1336-1340	39.5	38
326	Large-Area Synthesis and Patterning of All-Inorganic Lead Halide Perovskite Thin Films and Heterostructures. <i>Nano Letters</i> , <b>2021</b> , 21, 1454-1460	11.5	12
325	Tailoring morphologies of mesoporous polydopamine nanoparticles to deliver high-loading radioiodine for anaplastic thyroid carcinoma imaging and therapy. <i>Nanoscale</i> , <b>2021</b> , 13, 15021-15030	7.7	4

324	Effects of Gelatin Methacrylate Hydrogel on Corneal Repair and Regeneration in Rats.. <i>Translational Vision Science and Technology</i> , <b>2021</b> , 10, 25	3.3	1
323	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , <b>2020</b> , 12, 764-772	17.6	207
322	Redox Control of Charge Transport in Vertical Ferrocene Molecular Tunnel Junctions. <i>CheM</i> , <b>2020</b> , 6, 1172-1182	16.2	18
321	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , <b>2020</b> , 579, 368-374	50.4	195
320	A Polymerization-Assisted Grain Growth Strategy for Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907769	24	87
319	Band structure engineered tunneling heterostructures for high-performance visible and near-infrared photodetection. <i>Science China Materials</i> , <b>2020</b> , 63, 1537-1547	7.1	44
318	Impact of texturing on the phase transitions in sol-gel-processed Bi(Sm)FeO <sub>3</sub> thin films on LaNiO <sub>3</sub> -buffered silicon. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 6554-6564	3.8	3
317	Molecular Design of Single-Atom Catalysts for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903815	21.8	139
316	Fluorescence resonance energy transfer-based drug delivery systems for enhanced photodynamic therapy. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 3772-3788	7.3	23
315	Highly Reliable Low-Voltage Memristive Switching and Artificial Synapse Enabled by van der Waals Integration. <i>Matter</i> , <b>2020</b> , 2, 965-976	12.7	22
314	Enhancing local electric fields at plasmonic nanogaps by optimal dielectric coatings. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 155103	3	6
313	van der Waals Integrated Devices Based on Nanomembranes of 3D Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 1410-1416	11.5	10
312	Sensitive pressure sensors based on conductive microstructured air-gap gates and two-dimensional semiconductor transistors. <i>Nature Electronics</i> , <b>2020</b> , 3, 59-69	28.4	69
311	Pt3Ag alloy wavy nanowires as highly effective electrocatalysts for ethanol oxidation reaction. <i>Nano Research</i> , <b>2020</b> , 13, 1472-1478	10	25
310	Suppressed threshold voltage roll-off and ambipolar transport in multilayer transition metal dichalcogenide feed-back gate transistors. <i>Nano Research</i> , <b>2020</b> , 13, 1943-1947	10	4
309	Application of spherical polyelectrolyte brushes microparticle system in flocculation and retention. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
308	Compressed Intermetallic PdCu for Enhanced Electrocatalysis. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3672-3680	20.1	19
307	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. <i>Nature Electronics</i> , <b>2020</b> , 3, 630-637	28.4	26

306	Graphene-enabled reconfigurable terahertz wavefront modulator based on complete Fermi level modulated phase. <i>New Journal of Physics</i> , <b>2020</b> , 22, 063054	2.9	5
305	Reducing the loss of electric field enhancement for plasmonic core-shell nanoparticle dimers by high refractive index dielectric coating. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 105001	1.8	7
304	Perovskite Light-Emitting Diodes: Surface-2D/Bulk-3D Heterophased Perovskite Nanograins for Long-Term-Stable Light-Emitting Diodes (Adv. Mater. 1/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070007	24	2
303	Evolution Pathway from Iron Compounds to Fe(II)-N Sites through Gas-Phase Iron during Pyrolysis. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1417-1423	16.4	107
302	Surface-2D/Bulk-3D Heterophased Perovskite Nanograins for Long-Term-Stable Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905674	24	36
301	Hermetic seal for perovskite solar cells: An improved plasma enhanced atomic layer deposition encapsulation. <i>Nano Energy</i> , <b>2020</b> , 69, 104375	17.1	56
300	Tungsten as Adhesive in Pt <sub>2</sub> CuW <sub>0.25</sub> Ternary Alloy for Highly Durable Oxygen Reduction Electrocatalysis. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908230	15.6	32
299	Beyond Extended Surfaces: Understanding the Oxygen Reduction Reaction on Nanocatalysts. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 17812-17827	16.4	54
298	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Matter</i> , <b>2020</b> , 3, 1774-1790	12.7	30
297	Probing photoelectrical transport in lead halide perovskites with van der Waals contacts. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 768-775	28.7	23
296	Interpretable molecular models for molybdenum disulfide and insight into selective peptide recognition. <i>Chemical Science</i> , <b>2020</b> , 11, 8708-8722	9.4	10
295	Enhancement of oxygen reduction reaction activity by grain boundaries in platinum nanostructures. <i>Nano Research</i> , <b>2020</b> , 13, 3310-3314	10	8
294	Solid-phase hetero epitaxial growth of B-phase formamidinium perovskite. <i>Nature Communications</i> , <b>2020</b> , 11, 5514	17.4	38
293	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , <b>2020</b> , 3, 762-770	36.5	206
292	Robust Flexible Pressure Sensors Made from Conductive Micropyramids for Manipulation Tasks. <i>ACS Nano</i> , <b>2020</b> , 14, 12866-12876	16.7	38
291	Highly active and stable stepped Cu surface for enhanced electrochemical CO <sub>2</sub> reduction to C <sub>2</sub> H <sub>4</sub> . <i>Nature Catalysis</i> , <b>2020</b> , 3, 804-812	36.5	118
290	Steric Impediment of Ion Migration Contributes to Improved Operational Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906995	24	76
289	Selective interaction between graphene and a multifunctional metamirror in the near-infrared region. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 495104	3	1

288	Ultra-high Areal Capacity Realized in Three-Dimensional Holey Graphene/SnO Composite Anodes. <i>IScience</i> , <b>2019</b> , 19, 728-736	6.1	25
287	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. <i>Nano Letters</i> , <b>2019</b> , 19, 6819-6826	11.5	37
286	Van der Waals thin-film electronics. <i>Nature Electronics</i> , <b>2019</b> , 2, 378-388	28.4	67
285	Perovskite-polymer composite cross-linker approach for highly-stable and efficient perovskite solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 520	17.4	262
284	Unifying the Hydrogen Evolution and Oxidation Reactions Kinetics in Base by Identifying the Catalytic Roles of Hydroxyl-Water-Cation Adducts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3232-3239	16.4	119
283	A field-effect approach to directly profiling the localized states in monolayer MoS <sub>2</sub> . <i>Science Bulletin</i> , <b>2019</b> , 64, 1049-1055	10.6	5
282	Pt-Based Nanocrystal for Electrocatalytic Oxygen Reduction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808115	24	160
281	In Situ Transmission Electron Microscopy for Energy Materials and Devices. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900608	24	53
280	Optimizing Ag-Pt core-shell nanostructures for solar energy conversion, plasmonic photocatalysis, and photothermal catalysis. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 183902	3.4	15
279	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , <b>2019</b> , 2, 495-503	36.5	258
278	A NIR-triggered gatekeeper of supramolecular conjugated unimicelles with two-photon absorption for controlled drug release. <i>Chemical Communications</i> , <b>2019</b> , 55, 6735-6738	5.8	15
277	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. <i>Nano Letters</i> , <b>2019</b> , 19, 3730-3736	11.5	31
276	Synthesis of surface controlled nickel/palladium hydride nanodendrites with high performance in benzyl alcohol oxidation. <i>Nano Research</i> , <b>2019</b> , 12, 1467-1472	10	15
275	Caffeine Improves the Performance and Thermal Stability of Perovskite Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 1464-1477	14.87	266
274	Van der Waals integration before and beyond two-dimensional materials. <i>Nature</i> , <b>2019</b> , 567, 323-333	50.4	530
273	Hollow Loofah-Like N, O-Co-Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900015	15.6	44
272	Self-Assembled Molecular-Electronic Films Controlled by Room Temperature Quantum Interference. <i>Chem</i> , <b>2019</b> , 5, 474-484	16.2	28
271	Doping engineering and functionalization of two-dimensional metal chalcogenides. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 26-51	10.8	162

270	3D Structure Determination of Pt-based Nanocatalysts at Atomic Resolution. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 398-399	0.5	
269	PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. <i>Nano Letters</i> , <b>2019</b> , 19, 5431-5436	11.5	56
268	Nanowire Electronics: From Nanoscale to Macroscale. <i>Chemical Reviews</i> , <b>2019</b> , 119, 9074-9135	68.1	105
267	Reconfigurable two-dimensional optoelectronic devices enabled by local ferroelectric polarization. <i>Nature Communications</i> , <b>2019</b> , 10, 3331	17.4	82
266	Enhancing the plasmonic fields by a high refractive index dielectric coating for surface enhanced spectroscopies. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 43LT01	3	6
265	Bimolecular Additives Improve Wide-Band-Gap Perovskites for Efficient Tandem Solar Cells with CIGS. <i>Joule</i> , <b>2019</b> , 3, 1734-1745	27.8	131
264	SnSe/MoS van der Waals Heterostructure Junction Field-Effect Transistors with Nearly Ideal Subthreshold Slope. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902962	24	29
263	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. <i>Matter</i> , <b>2019</b> , 1, 1567-1580	12.7	53
262	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. <i>Research</i> , <b>2019</b> , 2019, 8304824	7.8	2
261	Optimisation of the clustered regularly interspaced short palindromic repeats (CRISPR)/Cas9 : single-guide RNA (sgRNA) delivery system in a goat model. <i>Reproduction, Fertility and Development</i> , <b>2019</b> , 31, 1533-1537	1.8	3
260	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , <b>2019</b> , 363, 723-727	33.3	229
259	Germanium/perovskite heterostructure for high-performance and broadband photodetector from visible to infrared telecommunication band. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 106	16.7	100
258	Single atom electrocatalysts supported on graphene or graphene-like carbons. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 5207-5241	58.5	238
257	Nanoscale Structure Design for High-Performance Pt-Based ORR Catalysts. <i>Advanced Materials</i> , <b>2019</b> , 31, e1802234	24	286
256	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 45-60	73.3	360
255	Long-Range Hierarchical Nanocrystal Assembly Driven by Molecular Structural Transformation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1498-1505	16.4	14
254	Study on ultrasonic techniques for enhancing the separation process of membrane. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 55, 341-347	8.9	22
253	Maximizing the Current Output in Self-Aligned Graphene-InAs-Metal Vertical Transistors. <i>ACS Nano</i> , <b>2019</b> , 13, 847-854	16.7	14

252	A Highly Active Star Decahedron Cu Nanocatalyst for Hydrocarbon Production at Low Overpotentials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805405	24	72
251	High-Performance Black Phosphorus Field-Effect Transistors with Long-Term Air Stability. <i>Nano Letters</i> , <b>2019</b> , 19, 331-337	11.5	46
250	Ultrathin wavy Rh nanowires as highly effective electrocatalysts for methanol oxidation reaction with ultrahigh ECSA. <i>Nano Research</i> , <b>2019</b> , 12, 211-215	10	50
249	Monolayer atomic crystal molecular superlattices. <i>Nature</i> , <b>2018</b> , 555, 231-236	50.4	220
248	On-Chip in Situ Monitoring of Competitive Interfacial Anionic Chemisorption as a Descriptor for Oxygen Reduction Kinetics. <i>ACS Central Science</i> , <b>2018</b> , 4, 590-599	16.8	19
247	Few-Layer GeAs Field-Effect Transistors and Infrared Photodetectors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705934	17.5	69
246	Synergistically Enhanced Oxygen Reduction Electrocatalysis by Subsurface Atoms in Ternary PdCuNi Alloy Catalysts. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707219	15.6	39
245	Detailed correlations between SERS enhancement and plasmon resonances in subwavelength closely spaced Au nanorod arrays. <i>Nanoscale</i> , <b>2018</b> , 10, 4267-4275	7.7	27
244	Roles of Mo Surface Dopants in Enhancing the ORR Performance of Octahedral PtNi Nanoparticles. <i>Nano Letters</i> , <b>2018</b> , 18, 798-804	11.5	115
243	General synthesis and definitive structural identification of MN4C4 single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , <b>2018</b> , 1, 63-72	36.5	968
242	Anomalous spectral correlations between SERS enhancement and far-field optical responses in roughened Au mesoparticles. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 171906	3.4	10
241	Unraveling the mechanisms of room-temperature catalytic degradation of indoor formaldehyde and its biocompatibility on colloidal TiO <sub>2</sub> -supported MnO <sub>x</sub> /TeO <sub>2</sub> . <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1130-1139	7.1	17
240	2D perovskite stabilized phase-pure formamidinium perovskite solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 3021	17.4	407
239	Dirac semimetals based tunable narrowband absorber at terahertz frequencies. <i>Optics Express</i> , <b>2018</b> , 26, 11471-11480	3.3	70
238	Unexpected large nanoparticle size of single dimer hotspot systems for broadband SERS enhancement. <i>Optics Letters</i> , <b>2018</b> , 43, 2332-2335	3	23
237	Two-dimensional transistors beyond graphene and TMDCs. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 6388-6409	38.5	193
236	Improvement by Channel Recess of Contact Resistance and Gate Control in Large-Scale Spin-Coated MoS <sub>2</sub> MOSFETs. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1453-1456	4.4	4
235	Surface-Engineered PtNi-O Nanostructure with Record-High Performance for Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9046-9050	16.4	258



234	Microwave-Assisted Rapid Synthesis of Graphene-Supported Single Atomic Metals. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802146	24	172
233	Fabrication of Activity-Reporting Glucose Oxidase Nanocapsules with Oxygen-Independent Fluorescence Variation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26005-26015	9.5	10
232	Small morphology variations effects on plasmonic nanoparticle dimer hotspots. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9607-9614	7.1	29
231	Gate-tunable frequency combs in graphene-nitride microresonators. <i>Nature</i> , <b>2018</b> , 558, 410-414	50.4	101
230	Broadband gate-tunable terahertz plasmons in graphene heterostructures. <i>Nature Photonics</i> , <b>2018</b> , 12, 22-28	33.9	83
229	Highly-anisotropic optical and electrical properties in layered SnSe. <i>Nano Research</i> , <b>2018</b> , 11, 554-564	10	77
228	Tailored Phase Conversion under Conjugated Polymer Enables Thermally Stable Perovskite Solar Cells with Efficiency Exceeding 21. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17255-17262	16.4	162
227	Surface enhanced perfect absorption in metamaterials with periodic dielectric nanostrips on silver film. <i>Optics Express</i> , <b>2018</b> , 26, 30873-30881	3.3	9
226	Building two-dimensional materials one row at a time: Avoiding the nucleation barrier. <i>Science</i> , <b>2018</b> , 362, 1135-1139	33.3	105
225	Solution-processable 2D semiconductors for high-performance large-area electronics. <i>Nature</i> , <b>2018</b> , 562, 254-258	50.4	404
224	Quantum interference mediated vertical molecular tunneling transistors. <i>Science Advances</i> , <b>2018</b> , 4, eaat8237	18.3	43
223	Synthetic Control of Two-Dimensional NiTe Single Crystals with Highly Uniform Thickness Distributions. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14217-14223	16.4	74
222	A pestle and mortar approach for room temperature defect engineering in metal oxides. <i>Science China Materials</i> , <b>2018</b> , 61, 1363-1364	7.1	1
221	Platinum(IV) complex-based two-in-one polyprodrug for a combinatorial chemo-photodynamic therapy. <i>Biomaterials</i> , <b>2018</b> , 177, 67-77	15.6	58
220	Understanding Chemical Bonding in Alloys and the Representation in Atomistic Simulations. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 14996-15009	3.8	19
219	Approaching the Schottky-Mott limit in van der Waals metal-semiconductor junctions. <i>Nature</i> , <b>2018</b> , 557, 696-700	50.4	766
218	Molecular ligand modulation of palladium nanocatalysts for highly efficient and robust heterogeneous oxidation of cyclohexenone to phenol. <i>Science Advances</i> , <b>2017</b> , 3, e1600615	14.3	18
217	Improved ethanol electrooxidation performance by shortening Pd-Ni active site distance in Pd-Ni-P nanocatalysts. <i>Nature Communications</i> , <b>2017</b> , 8, 14136	17.4	272

216	Nanoparticle delivery of Wnt-1 siRNA enhances photodynamic therapy by inhibiting epithelial-mesenchymal transition for oral cancer. <i>Biomaterials Science</i> , <b>2017</b> , 5, 494-501	7.4	29
215	Ambipolar Barristors for Reconfigurable Logic Circuits. <i>Nano Letters</i> , <b>2017</b> , 17, 1448-1454	11.5	18
214	Nanoparticle-on-mirror cavity modes for huge and/or tunable plasmonic field enhancement. <i>Nanotechnology</i> , <b>2017</b> , 28, 105203	3.4	26
213	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , <b>2017</b> , 356, 599-604	33.3	965
212	Analytical plasmon dispersion in subwavelength closely spaced Au nanorod arrays from planar metal-insulator-metal waveguides. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6079-6085	7.1	14
211	Nanostructured Materials and Architectures for Advanced Infrared Photodetection. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700005	6.8	59
210	Color-Convertible, Unimolecular, Micelle-Based, Activatable Fluorescent Probe for Tumor-Specific Detection and Imaging In Vitro and In Vivo. <i>Small</i> , <b>2017</b> , 13, 1604062	11	20
209	A Solution Processable High-Performance Thermoelectric Copper Selenide Thin Film. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606662	24	67
208	Gate-Induced Insulator to Band-Like Transport Transition in Organolead Halide Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 429-434	6.4	20
207	Vertical Charge Transport and Negative Transconductance in Multilayer Molybdenum Disulfides. <i>Nano Letters</i> , <b>2017</b> , 17, 5495-5501	11.5	35
206	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. <i>Science Advances</i> , <b>2017</b> , 3, e1603068	14.3	181
205	Self-Assembled Polyprodrug Amphiphile for Subcutaneous Xenograft Tumor Inhibition with Prolonged Acting Time In Vivo. <i>Macromolecular Bioscience</i> , <b>2017</b> , 17, 1700174	5.5	19
204	Prodrug-embedded angiogenic vessel-targeting nanoparticle: A positive feedback amplifier in hypoxia-induced chemo-photo therapy. <i>Biomaterials</i> , <b>2017</b> , 144, 188-198	15.6	46
203	Graphene Surface Plasmons With Dielectric Metasurfaces. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 4553-4558	4	78
202	3D Imaging of Nanoalloy Catalysts at Atomic Resolution. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 2032-2039	10.3	33
201	Layer-by-Layer Degradation of Methylammonium Lead Tri-iodide Perovskite Microplates. <i>Joule</i> , <b>2017</b> , 1, 548-562	27.8	142
200	Confined Pyrolysis within Metal-Organic Frameworks To Form Uniform Ru Clusters for Efficient Oxidation of Alcohols. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9795-9798	16.4	157
199	Highly Sensitive Chemical Detection with Tunable Sensitivity and Selectivity from Ultrathin Platinum Nanowires. <i>Small</i> , <b>2017</b> , 13, 1602969	11	14

198	The Effect of Thermal Annealing on Charge Transport in Organolead Halide Perovskite Microplate Field-Effect Transistors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1601959	24	81
197	Three-dimensional graphene membrane cathode for high energy density rechargeable lithium-air batteries in ambient conditions. <i>Nano Research</i> , <b>2017</b> , 10, 472-482	10	23
196	Multi-band perfect plasmonic absorptions using rectangular graphene gratings. <i>Optics Letters</i> , <b>2017</b> , 42, 3052-3055	3	170
195	pH-Responsive Aerobic Nanoparticles for Effective Photodynamic Therapy. <i>Theranostics</i> , <b>2017</b> , 7, 4537-4550	15.0	51
194	Pushing the Performance Limit of Sub-100 nm Molybdenum Disulfide Transistors. <i>Nano Letters</i> , <b>2016</b> , 16, 6337-6342	11.5	91
193	Composition tunable ternary Pt-Ni-Co octahedra for optimized oxygen reduction activity. <i>Chemical Communications</i> , <b>2016</b> , 52, 11215-11218	5.8	33
192	Tunable Lattice Coupling of Multipole Plasmon Modes and Near-Field Enhancement in Closely Spaced Gold Nanorod Arrays. <i>Scientific Reports</i> , <b>2016</b> , 6, 23159	4.9	30
191	Tuning the Catalytic Activity of a Metal-Organic Framework Derived Copper and Nitrogen Co-Doped Carbon Composite for Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26769-26774	9.5	55
190	Van der Waals heterostructures and devices. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	1262
189	A hyperaccumulation pathway to three-dimensional hierarchical porous nanocomposites for highly robust high-power electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 13432	17.4	54
188	Wang et al. Reply. <i>Physical Review Letters</i> , <b>2016</b> , 117, 219702	7.4	1
187	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. <i>Science</i> , <b>2016</b> , 354, 1414-1419	33.3	986
186	Scalable solution-phase epitaxial growth of symmetry-mismatched heterostructures on two-dimensional crystal soft template. <i>Science Advances</i> , <b>2016</b> , 2, e1600993	14.3	39
185	Nanoelectronic Investigation Reveals the Electrochemical Basis of Electrical Conductivity in <i>Shewanella</i> and <i>Geobacter</i> . <i>ACS Nano</i> , <b>2016</b> , 10, 9919-9926	16.7	34
184	Combining Two-Photon-Activated Fluorescence Resonance Energy Transfer and Near-Infrared Photothermal Effect of Unimolecular Micelles for Enhanced Photodynamic Therapy. <i>ACS Nano</i> , <b>2016</b> , 10, 10489-10499	16.7	75
183	Size-dependent phase transition in methylammonium lead iodide perovskite microplate crystals. <i>Nature Communications</i> , <b>2016</b> , 7, 11330	17.4	173
182	Ultrasmall Cu <sub>7</sub> S <sub>4</sub> @MoS <sub>2</sub> Hetero-Nanoframes with Abundant Active Edge Sites for Ultrahigh-Performance Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6502-5	16.4	110
181	High-Current-Density Vertical-Tunneling Transistors from Graphene/Highly Doped Silicon Heterostructures. <i>Advanced Materials</i> , <b>2016</b> , 28, 4120-5	24	35

180	Universal Near-Field Interference Patterns of Fano Resonances in Two-Dimensional Plasmonic Crystals. <i>Plasmonics</i> , <b>2016</b> , 11, 1377-1383	2.4	25
179	Electronic and Ionic Transport Dynamics in Organolead Halide Perovskites. <i>ACS Nano</i> , <b>2016</b> , 10, 6933-41	16.7	91
178	In situ development of highly concave and composition-confined PtNi octahedra with high oxygen reduction reaction activity and durability. <i>Nano Research</i> , <b>2016</b> , 9, 149-157	10	52
177	Plasmonic/Nonlinear Optical Material Core/Shell Nanorods as Nanoscale Plasmon Modulators and Optical Voltage Sensors. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 593-597	3.6	1
176	Plasmonic/Nonlinear Optical Material Core/Shell Nanorods as Nanoscale Plasmon Modulators and Optical Voltage Sensors. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 583-7	16.4	19
175	Three-dimensional graphene framework with ultra-high sulfur content for a robust lithium-sulfur battery. <i>Nano Research</i> , <b>2016</b> , 9, 240-248	10	147
174	van der Waals Heterojunction Devices Based on Organohalide Perovskites and Two-Dimensional Materials. <i>Nano Letters</i> , <b>2016</b> , 16, 367-73	11.5	163
173	Synthesis of WS <sub>2</sub> xSe <sub>2-2x</sub> Alloy Nanosheets with Composition-Tunable Electronic Properties. <i>Nano Letters</i> , <b>2016</b> , 16, 264-9	11.5	218
172	Gradual plasmon evolution and huge infrared near-field enhancement of metallic bridged nanoparticle dimers. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 2319-23	3.6	18
171	Morphology and Phase Controlled Construction of Pt-Ni Nanostructures for Efficient Electrocatalysis. <i>Nano Letters</i> , <b>2016</b> , 16, 2762-7	11.5	150
170	Pinhole-Containing, Subnanometer-Thick Al <sub>2</sub> O <sub>3</sub> Shell-Coated Ag Nanorods as Practical Substrates for Quantitative Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 606-615	3.8	36
169	Gold-Coated M13 Bacteriophage as a Template for Glucose Oxidase Biofuel Cells with Direct Electron Transfer. <i>ACS Nano</i> , <b>2016</b> , 10, 324-32	16.7	41
168	Vertically Stacked Heterostructures for Tunable Photonic Devices - from 2D Materials to Hybrid Perovskites <b>2016</b> ,		1
167	Fluorescent Unimolecular Conjugated Polymeric Micelles for Biological Applications. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 266-283	2.6	18
166	Ultrasmall Cu <sub>7</sub> S <sub>4</sub> @MoS <sub>2</sub> Hetero-Nanoframes with Abundant Active Edge Sites for Ultrahigh-Performance Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 6612-6615	3.6	14
165	Hybridized plasmon modes and near-field enhancement of metallic nanoparticle-dimer on a mirror. <i>Scientific Reports</i> , <b>2016</b> , 6, 30011	4.9	66
164	Pinhole Effect on the Melting Behavior of Ag@Al <sub>2</sub> O <sub>3</sub> SERS Substrates. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 170	5	10
163	High-Performance Real-Time SERS Detection with Recyclable Ag Nanorods@HfO Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27162-27168	9.5	54

162	Quantitative Analysis of Single and Mix Food Antiseptics Basing on SERS Spectra with PLSR Method. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 296	5	15
161	Synthesis and therapeutic applications of biocompatible or biodegradable hyperbranched polymers. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 2794-2812	4.9	46
160	Solvated graphene frameworks as high-performance anodes for lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5345-50	16.4	111
159	Metal-organic framework templated synthesis of ultrathin, well-aligned metallic nanowires. <i>ACS Nano</i> , <b>2015</b> , 9, 3044-9	16.7	54
158	Reduced graphene oxide/silicon nanowire heterostructures with enhanced photoactivity and superior photoelectrochemical stability. <i>Nano Research</i> , <b>2015</b> , 8, 2850-2858	10	29
157	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. <i>Physical Review Letters</i> , <b>2015</b> , 115, 027403	7.4	38
156	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. <i>Nature Communications</i> , <b>2015</b> , 6, 7509	17.4	104
155	Toward barrier free contact to molybdenum disulfide using graphene electrodes. <i>Nano Letters</i> , <b>2015</b> , 15, 3030-4	11.5	286
154	Solvated Graphene Frameworks as High-Performance Anodes for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 5435-5440	3.6	34
153	Cosolvent approach for solution-processable electronic thin films. <i>ACS Nano</i> , <b>2015</b> , 9, 4398-405	16.7	51
152	Pt x Cu y nanocrystals with hexa-pod morphology and their electrocatalytic performances towards oxygen reduction reaction. <i>Nano Research</i> , <b>2015</b> , 8, 3342-3352	10	16
151	Seedless Growth of Palladium Nanocrystals with Tunable Structures: From Tetrahedra to Nanosheets. <i>Nano Letters</i> , <b>2015</b> , 15, 7519-25	11.5	68
150	Nanogap effects on near- and far-field plasmonic behaviors of metallic nanoparticle dimers. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 29293-8	3.6	49
149	High-Performance Organic Vertical Thin Film Transistor Using Graphene as a Tunable Contact. <i>ACS Nano</i> , <b>2015</b> , 9, 11102-8	16.7	58
148	Wafer-scale growth of large arrays of perovskite microplate crystals for functional electronics and optoelectronics. <i>Science Advances</i> , <b>2015</b> , 1, e1500613	14.3	226
147	An on-chip electrical transport spectroscopy approach for in situ monitoring electrochemical interfaces. <i>Nature Communications</i> , <b>2015</b> , 6, 7867	17.4	44
146	Near-Infrared Plasmonic-Enhanced Solar Energy Harvest for Highly Efficient Photocatalytic Reactions. <i>Nano Letters</i> , <b>2015</b> , 15, 6295-301	11.5	202
145	Large area growth and electrical properties of p-type WSe2 atomic layers. <i>Nano Letters</i> , <b>2015</b> , 15, 709-13	11.5	287

144	Compositional Analysis of Ternary and Binary Chemical Mixtures by Surface-Enhanced Raman Scattering at Trace Levels. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 437	5	13
143	Ag Nanorods Coated with Ultrathin TiO <sub>2</sub> Shells as Stable and Recyclable SERS Substrates. <i>Scientific Reports</i> , <b>2015</b> , 5, 15442	4.9	64
142	Silver Nanorods Wrapped with Ultrathin Al <sub>2</sub> O <sub>3</sub> Layers Exhibiting Excellent SERS Sensitivity and Outstanding SERS Stability. <i>Scientific Reports</i> , <b>2015</b> , 5, 12890	4.9	81
141	Near-field mapping of three-dimensional surface charge poles for hybridized plasmon modes. <i>AIP Advances</i> , <b>2015</b> , 5, 107221	1.5	16
140	51.4: Invited Paper: High Performance Flexible TFTs from Oxide/Carbon Heterostructures. <i>Digest of Technical Papers SID International Symposium</i> , <b>2015</b> , 46, 775-777	0.5	
139	Sensitivity and Reusability of SiO <sub>2</sub> NRs@ Au NPs SERS Substrate in Trace Monochlorobiphenyl Detection. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 444	5	13
138	Parameter estimation of fractional-order chaotic systems by using quantum parallel particle swarm optimization algorithm. <i>PLoS ONE</i> , <b>2015</b> , 10, e0114910	3.7	13
137	Significantly Enhanced Visible Light Photoelectrochemical Activity in TiO <sub>2</sub> Nanowire Arrays by Nitrogen Implantation. <i>Nano Letters</i> , <b>2015</b> , 15, 4692-8	11.5	138
136	Solution Processable Holey Graphene Oxide and Its Derived Macrostructures for High-Performance Supercapacitors. <i>Nano Letters</i> , <b>2015</b> , 15, 4605-10	11.5	349
135	Borylation of primary and secondary alkyl bromides catalyzed by Cu <sub>2</sub> O nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 46672-46676	3.7	22
134	ELECTROCHEMISTRY. High-performance transition metal-doped PtNi octahedra for oxygen reduction reaction. <i>Science</i> , <b>2015</b> , 348, 1230-4	33.3	1307
133	Synthesis of Stable Shape-Controlled Catalytically Active Palladium Hydride. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15672-5	16.4	75
132	UCLA researchers develop lower-cost, more efficient nanostructures for PEMFCs. <i>Fuel Cells Bulletin</i> , <b>2015</b> , 2015, 13	1.6	
131	Highly sensitive detection of mercury(II) ions with few-layer molybdenum disulfide. <i>Nano Research</i> , <b>2015</b> , 8, 257-262	10	65
130	Facile synthesis of ultrathin bimetallic PtSn wavy nanowires by nanoparticle attachment as enhanced hydrogenation catalysts. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 3901-5	4.8	16
129	Molecular Mechanism of Specific Recognition of Cubic Pt Nanocrystals by Peptides and of the Concentration-Dependent Formation from Seed Crystals. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1374-1384	15.6	57
128	Integration of molecular and enzymatic catalysts on graphene for biomimetic generation of antithrombotic species. <i>Nature Communications</i> , <b>2014</b> , 5, 3200	17.4	83
127	Chemical vapor deposition growth of monolayer MoSe <sub>2</sub> nanosheets. <i>Nano Research</i> , <b>2014</b> , 7, 511-517	10	285

126	Solution processable colloidal nanoplates as building blocks for high-performance electronic thin films on flexible substrates. <i>Nano Letters</i> , <b>2014</b> , 14, 6547-53	11.5	60
125	A rational design of carbon-supported dispersive Pt-based octahedra as efficient oxygen reduction reaction catalysts. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2957-2962	35.4	147
124	High density catalytic hot spots in ultrafine wavy nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 3887-94	11.5	93
123	Highly flexible electronics from scalable vertical thin film transistors. <i>Nano Letters</i> , <b>2014</b> , 14, 1413-8	11.5	113
122	Photo-responsive polymeric micelles. <i>Soft Matter</i> , <b>2014</b> , 10, 6121-38	3.6	135
121	Holey graphene frameworks for highly efficient capacitive energy storage. <i>Nature Communications</i> , <b>2014</b> , 5, 4554	17.4	1002
120	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 1024-30	28.7	858
119	Electroluminescence and photocurrent generation from atomically sharp WSe <sub>2</sub> /MoS <sub>2</sub> heterojunction p-n diodes. <i>Nano Letters</i> , <b>2014</b> , 14, 5590-7	11.5	782
118	Few-layer molybdenum disulfide transistors and circuits for high-speed flexible electronics. <i>Nature Communications</i> , <b>2014</b> , 5, 5143	17.4	329
117	A rational biomimetic approach to structure defect generation in colloidal nanocrystals. <i>ACS Nano</i> , <b>2014</b> , 8, 6934-44	16.7	41
116	Nanoscale Joule heating and electromigration enhanced ripening of silver nanowire contacts. <i>ACS Nano</i> , <b>2014</b> , 8, 2804-11	16.7	251
115	Tunable SERS-tags-hidden gold nanorattles for theragnosis of cancer cells with single laser beam. <i>Scientific Reports</i> , <b>2014</b> , 4, 6709	4.9	19
114	Three-Dimensional Imaging of Dislocations and Defects in Materials at Atomic Resolution Using Electron Tomography. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1062-1063	0.5	
113	Metal-semiconductor transition in atomically thin Bi <sub>2</sub> Sr <sub>2</sub> Co <sub>2</sub> O <sub>8</sub> nanosheets. <i>APL Materials</i> , <b>2014</b> , 2, 092507	0.7	6
112	A rational design of cosolvent exfoliation of layered materials by directly probing liquid-solid interaction. <i>Nature Communications</i> , <b>2013</b> , 4, 2213	17.4	204
111	Real-time electrical detection of nitric oxide in biological systems with sub-nanomolar sensitivity. <i>Nature Communications</i> , <b>2013</b> , 4, 2225	17.4	96
110	Functionalized graphene hydrogel-based high-performance supercapacitors. <i>Advanced Materials</i> , <b>2013</b> , 25, 5779-84	24	520
109	Graphene-hemin hybrid material as effective catalyst for selective oxidation of primary C-H bond in toluene. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	40

108	Facet-selective adsorption on noble metal crystals guided by electrostatic potential surfaces of aromatic molecules. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15489-500	16.4	35
107	Highly efficient gate-tunable photocurrent generation in vertical heterostructures of layered materials. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 952-8	28.7	866
106	Very high energy density silicide-air primary batteries. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2621	35.4	17
105	Gold clusters alloyed to nanoporous palladium surfaces as highly active bimetallic oxidation catalysts. <i>ChemSusChem</i> , <b>2013</b> , 6, 1868-72	8.3	2
104	Biomimetic synthesis of an ultrathin platinum nanowire network with a high twin density for enhanced electrocatalytic activity and durability. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12577-81	16.4	164
103	Monodisperse Cu@PtCu nanocrystals and their conversion into hollow-PtCu nanostructures for methanol oxidation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14449	13	57
102	Miao et al. reply. <i>Nature</i> , <b>2013</b> , 503, E1-2	50.4	5
101	Growth inhibition of calcium oxalate monohydrate crystal by linear aspartic acid enantiomers investigated by in situ atomic force microscopy. <i>CrystEngComm</i> , <b>2013</b> , 15, 54-64	3.3	30
100	Vertically stacked multi-heterostructures of layered materials for logic transistors and complementary inverters. <i>Nature Materials</i> , <b>2013</b> , 12, 246-52	27	705
99	One-step strategy to graphene/Ni(OH) <sub>2</sub> composite hydrogels as advanced three-dimensional supercapacitor electrode materials. <i>Nano Research</i> , <b>2013</b> , 6, 65-76	10	182
98	Palladium-based nanostructures with highly porous features and perpendicular pore channels as enhanced organic catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2520-4	16.4	135
97	Biomolecular specificity controlled nanomaterial synthesis. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 2512-27	58.5	66
96	Three-dimensional imaging of dislocations in a nanoparticle at atomic resolution. <i>Nature</i> , <b>2013</b> , 496, 74-75	50.4	272
95	Flexible solid-state supercapacitors based on three-dimensional graphene hydrogel films. <i>ACS Nano</i> , <b>2013</b> , 7, 4042-9	16.7	945
94	Plasmonic and catalytic AuPd nanowheels for the efficient conversion of light into chemical energy. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6063-7	16.4	135
93	Chemical vapour deposition growth of large single crystals of monolayer and bilayer graphene. <i>Nature Communications</i> , <b>2013</b> , 4, 2096	17.4	422
92	Kinetic manipulation of silicide phase formation in Si nanowire templates. <i>Nano Letters</i> , <b>2013</b> , 13, 3703-8	11.5	29
91	A facile strategy to Pt <sub>3</sub> Ni nanocrystals with highly porous features as an enhanced oxygen reduction reaction catalyst. <i>Advanced Materials</i> , <b>2013</b> , 25, 2974-9	24	211



90	A versatile strategy to the selective synthesis of Cu nanocrystals and the in situ conversion to CuRu nanotubes. <i>Nanoscale</i> , <b>2013</b> , 5, 6284-90	7.7	32
89	Tailoring molecular specificity toward a crystal facet: a lesson from biorecognition toward Pt{111}. <i>Nano Letters</i> , <b>2013</b> , 13, 840-6	11.5	95
88	The Regulation of Surface-Enhanced Raman Scattering Sensitivity of Silver Nanorods by Silicon Sections. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-5	3.2	3
87	Graphene Hydrogels: Functionalized Graphene Hydrogel-Based High-Performance Supercapacitors (Adv. Mater. 40/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 5828-5828	24	2
86	Plasmonic and Catalytic AuPd Nanowheels for the Efficient Conversion of Light into Chemical Energy. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6179-6183	3.6	43
85	Phase control in solid state silicide nanowire formation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2013</b> , 10, 1666-1669		10
84	Palladium-Based Nanostructures with Highly Porous Features and Perpendicular Pore Channels as Enhanced Organic Catalysts. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2580-2584	3.6	52
83	Biomimetic Synthesis of an Ultrathin Platinum Nanowire Network with a High Twin Density for Enhanced Electrocatalytic Activity and Durability. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 12809-12813	3.6	18
82	High-capacity silicon-air battery in alkaline solution. <i>ChemSusChem</i> , <b>2012</b> , 5, 177-80	8.3	35
81	Low-temperature, seed-mediated synthesis of monodispersed hyperbranched PtRu nanoparticles and their electrocatalytic activity in methanol oxidation. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12461		14
80	Synthesis of bimetallic Pt-Pd core-shell nanocrystals and their high electrocatalytic activity modulated by Pd shell thickness. <i>Nanoscale</i> , <b>2012</b> , 4, 845-51	7.7	56
79	The growth and applications of silicides for nanoscale devices. <i>Nanoscale</i> , <b>2012</b> , 4, 1412-21	7.7	37
78	Crystallinity control of ferromagnetic contacts in stressed nanowire templates and the magnetic domain anisotropy. <i>Nano Letters</i> , <b>2012</b> , 12, 4341-8	11.5	12
77	Impact of Chiral Molecules on the Formation of Biominerals: A Calcium Oxalate Monohydrate Example. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 5939-5947	3.5	18
76	Kinetic competition model and size-dependent phase selection in 1-D nanostructures. <i>Nano Letters</i> , <b>2012</b> , 12, 3115-20	11.5	37
75	High-yield chemical vapor deposition growth of high-quality large-area AB-stacked bilayer graphene. <i>ACS Nano</i> , <b>2012</b> , 6, 8241-9	16.7	215
74	Stabilization of high-performance oxygen reduction reaction Pt electrocatalyst supported on reduced graphene oxide/carbon black composite. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12326-9	16.4	400
73	Graphene: an emerging electronic material. <i>Advanced Materials</i> , <b>2012</b> , 24, 5782-825	24	603

72	Graphene: An Emerging Electronic Material (Adv. Mater. 43/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 5776-5776	25
71	Domain wall motion in synthetic Co <sub>2</sub> Si nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 1972-6	11.5 12
70	A systematic study of atmospheric pressure chemical vapor deposition growth of large-area monolayer graphene. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1498-1503	66
69	Enhanced surface-enhanced Raman scattering performance by folding silver nanorods. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 113101	3.4 49
68	Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 3888-3891	3.6 71
67	Innenrücktitelbild: Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst (Angew. Chem. 16/2012). <i>Angewandte Chemie</i> , <b>2012</b> , 124, 4045-4045	3.6
66	Graphene-supported hemin as a highly active biomimetic oxidation catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3822-5	16.4 275
65	Inside Back Cover: Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst (Angew. Chem. Int. Ed. 16/2012). <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3975-3975	16.4
64	Simplifying the creation of dumbbell-like Cu-Ag nanostructures and their enhanced catalytic activity. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 9505-10	4.8 49
63	Scalable fabrication of self-aligned graphene transistors and circuits on glass. <i>Nano Letters</i> , <b>2012</b> , 12, 2653-7	11.5 67
62	High-frequency self-aligned graphene transistors with transferred gate stacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 11588-92	11.5 267
61	Synthesis of PtPd bimetal nanocrystals with controllable shape, composition, and their tunable catalytic properties. <i>Nano Letters</i> , <b>2012</b> , 12, 4265-70	11.5 207
60	The Nanofabrication and Application of Substrates for Surface-Enhanced Raman Scattering. <i>International Journal of Spectroscopy</i> , <b>2012</b> , 2012, 1-7	8
59	Composition tuning the upconversion emission in NaYF <sub>4</sub> :Yb/Tm hexaplate nanocrystals. <i>Nanoscale</i> , <b>2011</b> , 3, 963-6	7.7 69
58	Highly spectral dependent enhancement of upconversion emission with sputtered gold island films. <i>Chemical Communications</i> , <b>2011</b> , 47, 979-81	5.8 90
57	Synthesis of platinum single-twinned right bipyramid and {111}-bipyramid through targeted control over both nucleation and growth using specific peptides. <i>Nano Letters</i> , <b>2011</b> , 11, 3040-6	11.5 65
56	The influence of surface oxide on the growth of metal/semiconductor nanowires. <i>Nano Letters</i> , <b>2011</b> , 11, 2753-8	11.5 23
55	Platinum nanocrystals selectively shaped using facet-specific peptide sequences. <i>Nature Chemistry</i> , <b>2011</b> , 3, 393-9	17.6 361

54	Plasmon resonance enhanced multicolour photodetection by graphene. <i>Nature Communications</i> , <b>2011</b> , 2, 579	17.4	546
53	Synthesis and electric properties of dicobalt silicide nanobelts. <i>Chemical Communications</i> , <b>2011</b> , 47, 1255-8	5.7	14
52	Edge effect on resistance scaling rules in graphene nanostructures. <i>Nano Letters</i> , <b>2011</b> , 11, 1082-6	11.5	34
51	Top-gated chemical vapor deposition grown graphene transistors with current saturation. <i>Nano Letters</i> , <b>2011</b> , 11, 2555-9	11.5	79
50	Linewidth roughness in nanowire-mask-based graphene nanoribbons. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 243118	3.4	13
49	Contrastive analysis of the Raman spectra of polychlorinated benzene: hexachlorobenzene and benzene. <i>Sensors</i> , <b>2011</b> , 11, 11510-5	3.8	20
48	Rapid detection of polychlorinated biphenyls at trace levels in real environmental samples by surface-enhanced Raman scattering. <i>Sensors</i> , <b>2011</b> , 11, 10851-8	3.8	13
47	High-speed graphene transistors with a self-aligned nanowire gate. <i>Nature</i> , <b>2010</b> , 467, 305-8	50.4	1031
46	Very large magnetoresistance in graphene nanoribbons. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 655-9	28.7	237
45	Graphene nanomesh. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 190-4	28.7	1155
44	Nanoelectronic Devices from Nanowire Heterostructures. <i>ECS Transactions</i> , <b>2010</b> , 33, 3-11	1	
43	Top-gated graphene nanoribbon transistors with ultrathin high-k dielectrics. <i>Nano Letters</i> , <b>2010</b> , 10, 1917-21	12.4	141
42	Single-layer graphene on Al <sub>2</sub> O <sub>3</sub> /Si substrate: better contrast and higher performance of graphene transistors. <i>Nanotechnology</i> , <b>2010</b> , 21, 015705	3.4	78
41	High-kappa oxide nanoribbons as gate dielectrics for high mobility top-gated graphene transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6711-5	11.5	161
40	Detection of spin polarized carrier in silicon nanowire with single crystal MnSi as magnetic contacts. <i>Nano Letters</i> , <b>2010</b> , 10, 2281-7	11.5	63
39	Biomimetic synthesis of inorganic materials and their applications. <i>Pure and Applied Chemistry</i> , <b>2010</b> , 83, 111-125	2.1	8
38	Growth of nickel silicides in Si and Si/SiO <sub>x</sub> core/shell nanowires. <i>Nano Letters</i> , <b>2010</b> , 10, 4721-6	11.5	68
37	Photocatalytic Properties of Porous Silicon Nanowires. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3590-3594		112

36	Controlled large strain of Ni silicide/Si/Ni silicide nanowire heterostructures and their electron transport properties. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 203110	3.4	16
35	Chemically Synthesized Semiconductor Nanowires for High-Performance Electronics and Optoelectronics <b>2010</b> , 27-66		2
34	Sub-100 nm channel length graphene transistors. <i>Nano Letters</i> , <b>2010</b> , 10, 3952-6	11.5	145
33	Size-controlled synthesis of Pd nanocrystals using a specific multifunctional peptide. <i>Nanoscale</i> , <b>2010</b> , 2, 927-30	7.7	52
32	Rational design and synthesis of freestanding photoelectric nanodevices as highly efficient photocatalysts. <i>Nano Letters</i> , <b>2010</b> , 10, 1941-9	11.5	59
31	Morphology-controlled synthesis of platinum nanocrystals with specific peptides. <i>Advanced Materials</i> , <b>2010</b> , 22, 1921-5	24	65
30	High-performance top-gated graphene-nanoribbon transistors using zirconium oxide nanowires as high-dielectric-constant gate dielectrics. <i>Advanced Materials</i> , <b>2010</b> , 22, 1941-5	24	120
29	Plasmonic Modulation of the Upconversion Fluorescence in NaYF <sub>4</sub> :Yb/Tm Hexaplate Nanocrystals Using Gold Nanoparticles or Nanoshells. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2927-2930	3.6	78
28	Plasmonic modulation of the upconversion fluorescence in NaYF <sub>4</sub> :Yb/Tm hexaplate nanocrystals using gold nanoparticles or nanoshells. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2865-8	16.4	317
27	Fabrication and electrical properties of graphene nanoribbons. <i>Materials Science and Engineering Reports</i> , <b>2010</b> , 70, 341-353	30.9	68
26	Electrically conductive and optically active porous silicon nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 4539-43	11.5	303
25	Specific peptide regulated synthesis of ultrasmall platinum nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15998-9	16.4	73
24	Rational fabrication of graphene nanoribbons using a nanowire etch mask. <i>Nano Letters</i> , <b>2009</b> , 9, 2083-7	11.5	336
23	Fluid assisted assembly of one-dimensional nanoparticle array inside inorganic nanotubes. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 921-923		13
22	Self-aligned nanolithography in a nanogap. <i>Nano Letters</i> , <b>2009</b> , 9, 2234-8	11.5	14
21	Protein and protein assembly based material structures. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3755		27
20	Single crystalline PtSi nanowires, PtSi/Si/PtSi nanowire heterostructures, and nanodevices. <i>Nano Letters</i> , <b>2008</b> , 8, 913-8	11.5	156
19	Multifunctional nanoparticles displaying magnetization and near-IR absorption. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2439-42	16.4	173

18	Multifunctional Nanoparticles Displaying Magnetization and Near-IR Absorption. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 2473-2476	3.6	35
17	Semiconductor Nanowires <b>2008</b> , 3910-3940		2
16	Programmable assembly of nanoarchitectures using genetically engineered viruses. <i>Nano Letters</i> , <b>2005</b> , 5, 1429-34	11.5	325
15	Nanowires for integrated multicolor nanophotonics. <i>Small</i> , <b>2005</b> , 1, 142-7	11	565
14	Integrated nanoscale electronics and optoelectronics: Exploring nanoscale science and technology through semiconductor nanowires. <i>Pure and Applied Chemistry</i> , <b>2004</b> , 76, 2051-2068	2.1	232
13	Single-nanowire electrically driven lasers. <i>Nature</i> , <b>2003</b> , 421, 241-5	50.4	2109
12	Nanowires as Building Blocks for Nanoscale Science and Technology <b>2003</b> , 3-68		14
11	Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires. <i>Nano Letters</i> , <b>2002</b> , 2, 487-490	11.5	300
10	Gallium Nitride Nanowire Nanodevices. <i>Nano Letters</i> , <b>2002</b> , 2, 101-104	11.5	806
9	Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices. <i>Nature</i> , <b>2001</b> , 409, 66-9	50.4	2992
8	Straightforward conversion route to nanocrystalline monothiooxides of rare earths through a high-temperature colloid technique. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 3418-20	5.1	23
7	Interatomic potentials for Cd, Zn, and Hg from absorption spectra. <i>Journal of Chemical Physics</i> , <b>1984</b> , 81, 11-19	3.9	34
6	Functional Structures Assembled from Nanoscale Building Blocks 349-377		
5	Noble Metal Based Electrocatalysts for Alcohol Oxidation Reactions in Alkaline Media. <i>Advanced Functional Materials</i> , 2106401	15.6	6
4	Enhancement of piezoelectricity in spin-coated Bi <sub>1/2</sub> Na <sub>1/2</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> epitaxial films by strain engineering. <i>Journal of Materials Chemistry C</i> ,	7.1	2
3	1D PtCo nanowires as catalysts for PEMFCs with low Pt loading. <i>Science China Materials</i> , 1	7.1	0
2	Enhanced Performance of Carbon-Based, Fully Printed Mesoscopic Perovskite Solar Cells through Defects Passivation. <i>Advanced Materials Interfaces</i> , 2100395	4.6	1
1	Stability of Platinum-Group-Metal-based Electrocatalysts in Proton Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2203883	15.6	0

