

# Yu Huang

## List of Publications by Citations

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359  
papers

47,578  
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103  
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388  
ext. papers

55,359  
ext. citations

15  
avg, IF

7.84  
L-index

#	Paper	IF	Citations
359	Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices. <i>Nature</i> , <b>2001</b> , 409, 66-9	50.4	2992
358	Single-nanowire electrically driven lasers. <i>Nature</i> , <b>2003</b> , 421, 241-5	50.4	2109
357	ELECTROCHEMISTRY. High-performance transition metal-doped PtNi octahedra for oxygen reduction reaction. <i>Science</i> , <b>2015</b> , 348, 1230-4	33.3	1307
356	Van der Waals heterostructures and devices. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	1262
355	Graphene nanomesh. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 190-4	28.7	1155
354	High-speed graphene transistors with a self-aligned nanowire gate. <i>Nature</i> , <b>2010</b> , 467, 305-8	50.4	1031
353	Holey graphene frameworks for highly efficient capacitive energy storage. <i>Nature Communications</i> , <b>2014</b> , 5, 4554	17.4	1002
352	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
351	General synthesis and definitive structural identification of MN <sub>4</sub> C <sub>4</sub> single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , <b>2018</b> , 1, 63-72	36.5	968
350	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , <b>2017</b> , 356, 599-604	33.3	965
349	Flexible solid-state supercapacitors based on three-dimensional graphene hydrogel films. <i>ACS Nano</i> , <b>2013</b> , 7, 4042-9	16.7	945
348	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
347	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 1024-30	28.7	858
346	Gallium Nitride Nanowire Nanodevices. <i>Nano Letters</i> , <b>2002</b> , 2, 101-104	11.5	806
345	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
344	Approaching the Schottky-Mott limit in van der Waals metal-semiconductor junctions. <i>Nature</i> , <b>2018</b> , 557, 696-700	50.4	766
343	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

342	Graphene: an emerging electronic material. <i>Advanced Materials</i> , <b>2012</b> , 24, 5782-825	24	603
341	Nanowires for integrated multicolor nanophotonics. <i>Small</i> , <b>2005</b> , 1, 142-7	11	565
340	Plasmon resonance enhanced multicolour photodetection by graphene. <i>Nature Communications</i> , <b>2011</b> , 2, 579	17.4	546
339	Van der Waals integration before and beyond two-dimensional materials. <i>Nature</i> , <b>2019</b> , 567, 323-333	50.4	530
338	Functionalized graphene hydrogel-based high-performance supercapacitors. <i>Advanced Materials</i> , <b>2013</b> , 25, 5779-84	24	520
337	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
336	2D perovskite stabilized phase-pure formamidinium perovskite solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 3021	17.4	407
335	Solution-processable 2D semiconductors for high-performance large-area electronics. <i>Nature</i> , <b>2018</b> , 562, 254-258	50.4	404
334	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
333	Platinum nanocrystals selectively shaped using facet-specific peptide sequences. <i>Nature Chemistry</i> , <b>2011</b> , 3, 393-9	17.6	361
332	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 45-60	73.3	360
331	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
330	Rational fabrication of graphene nanoribbons using a nanowire etch mask. <i>Nano Letters</i> , <b>2009</b> , 9, 2083-7	11.5	336
329	Few-layer molybdenum disulfide transistors and circuits for high-speed flexible electronics. <i>Nature Communications</i> , <b>2014</b> , 5, 5143	17.4	329
328	Programmable assembly of nanoarchitectures using genetically engineered viruses. <i>Nano Letters</i> , <b>2005</b> , 5, 1429-34	11.5	325
327	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
326	Electrically conductive and optically active porous silicon nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 4539-43	11.5	303
325	Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires. <i>Nano Letters</i> , <b>2002</b> , 2, 487-490	11.5	300

324	Large area growth and electrical properties of p-type WSe <sub>2</sub> atomic layers. <i>Nano Letters</i> , <b>2015</b> , 15, 709-13	11.5	287
323	Toward barrier free contact to molybdenum disulfide using graphene electrodes. <i>Nano Letters</i> , <b>2015</b> , 15, 3030-4	11.5	286
322	Nanoscale Structure Design for High-Performance Pt-Based ORR Catalysts. <i>Advanced Materials</i> , <b>2019</b> , 31, e1802234	24	286
321	Chemical vapor deposition growth of monolayer MoSe <sub>2</sub> nanosheets. <i>Nano Research</i> , <b>2014</b> , 7, 511-517	10	285
320	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
319	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
318	Three-dimensional imaging of dislocations in a nanoparticle at atomic resolution. <i>Nature</i> , <b>2013</b> , 496, 74-75	10.4	272
317	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
316	Caffeine Improves the Performance and Thermal Stability of Perovskite Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 1464-1477	17.8	266
315	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
314	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , <b>2019</b> , 2, 495-503	36.5	258
313	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
312	Nanoscale Joule heating and electromigration enhanced ripening of silver nanowire contacts. <i>ACS Nano</i> , <b>2014</b> , 8, 2804-11	16.7	251
311	Single atom electrocatalysts supported on graphene or graphene-like carbons. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 5207-5241	58.5	238
310	Very large magnetoresistance in graphene nanoribbons. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 655-9	28.7	237
309	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
308	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , <b>2019</b> , 363, 723-727	33.3	229
307	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

306	Monolayer atomic crystal molecular superlattices. <i>Nature</i> , <b>2018</b> , 555, 231-236	50.4	220
305	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
304	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
303	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
302	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
301	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
300	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , <b>2020</b> , 3, 762-770	36.5	206
299	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
298	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
297	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , <b>2020</b> , 579, 368-374	50.4	195
296	Two-dimensional transistors beyond graphene and TMDCs. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 6388-6408	38.5	193
295	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
294	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. <i>Science Advances</i> , <b>2017</b> , 3, e1603068	14.3	181
293	Size-dependent phase transition in methylammonium lead iodide perovskite microplate crystals. <i>Nature Communications</i> , <b>2016</b> , 7, 11330	17.4	173
292	Multifunctional nanoparticles displaying magnetization and near-IR absorption. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2439-42	16.4	173
291	Microwave-Assisted Rapid Synthesis of Graphene-Supported Single Atomic Metals. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802146	24	172
290	Multi-band perfect plasmonic absorptions using rectangular graphene gratings. <i>Optics Letters</i> , <b>2017</b> , 42, 3052-3055	3	170
289	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

288	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
287	Doping engineering and functionalization of two-dimensional metal chalcogenides. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 26-51	10.8	162
286	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
285	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
284	Pt-Based Nanocrystal for Electrocatalytic Oxygen Reduction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808115	24	160
283	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
282	Single crystalline PtSi nanowires, PtSi/Si/PtSi nanowire heterostructures, and nanodevices. <i>Nano Letters</i> , <b>2008</b> , 8, 913-8	11.5	156
281	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
280	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
279	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
278	Sub-100 nm channel length graphene transistors. <i>Nano Letters</i> , <b>2010</b> , 10, 3952-6	11.5	145
277	Promises and prospects of two-dimensional transistors. <i>Nature</i> , <b>2021</b> , 591, 43-53	50.4	143
276	Layer-by-Layer Degradation of Methylammonium Lead Tri-iodide Perovskite Microplates. <i>Joule</i> , <b>2017</b> , 1, 548-562	27.8	142
275	Top-gated graphene nanoribbon transistors with ultrathin high-k dielectrics. <i>Nano Letters</i> , <b>2010</b> , 10, 1917-21	11.5	141
274	Molecular Design of Single-Atom Catalysts for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903815	21.8	139
273	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
272	Photo-responsive polymeric micelles. <i>Soft Matter</i> , <b>2014</b> , 10, 6121-38	3.6	135
271	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

270	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
269	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
268	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
267	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
266	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
265	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
264	Highly flexible electronics from scalable vertical thin film transistors. <i>Nano Letters</i> , <b>2014</b> , 14, 1413-8	11.5	113
263	Photocatalytic Properties of Porous Silicon Nanowires. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3590-3594		112
262	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
261	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
260	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
259	Nanowire Electronics: From Nanoscale to Macroscale. <i>Chemical Reviews</i> , <b>2019</b> , 119, 9074-9135	68.1	105
258	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
257	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. <i>Nature Communications</i> , <b>2015</b> , 6, 7509	17.4	104
256	Gate-tunable frequency combs in graphene-nitride microresonators. <i>Nature</i> , <b>2018</b> , 558, 410-414	50.4	101
255	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
254	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
253	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

252	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
251	High density catalytic hot spots in ultrafine wavy nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 3887-94	11.5	93
250	Pushing the Performance Limit of Sub-100 nm Molybdenum Disulfide Transistors. <i>Nano Letters</i> , <b>2016</b> , 16, 6337-6342	11.5	91
249	Electronic and Ionic Transport Dynamics in Organolead Halide Perovskites. <i>ACS Nano</i> , <b>2016</b> , 10, 6933-41	16.7	91
248	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
247	A Polymerization-Assisted Grain Growth Strategy for Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907769	24	87
246	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
245	Broadband gate-tunable terahertz plasmons in graphene heterostructures. <i>Nature Photonics</i> , <b>2018</b> , 12, 22-28	33.9	83
244	Reconfigurable two-dimensional optoelectronic devices enabled by local ferroelectric polarization. <i>Nature Communications</i> , <b>2019</b> , 10, 3331	17.4	82
243	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
242	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
241	Top-gated chemical vapor deposition grown graphene transistors with current saturation. <i>Nano Letters</i> , <b>2011</b> , 11, 2555-9	11.5	79
240	Graphene Surface Plasmons With Dielectric Metasurfaces. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 4553-4558	4	78
239	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
238	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
237	Highly-anisotropic optical and electrical properties in layered SnSe. <i>Nano Research</i> , <b>2018</b> , 11, 554-564	10	77
236	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
235	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



234	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
233	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
232	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
231	A Highly Active Star Decahedron Cu Nanocatalyst for Hydrocarbon Production at Low Overpotentials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805405	24	72
230	Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 3888-3891	3.6	71
229	Dirac semimetals based tunable narrowband absorber at terahertz frequencies. <i>Optics Express</i> , <b>2018</b> , 26, 11471-11480	3.3	70
228	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
227	Few-Layer GeAs Field-Effect Transistors and Infrared Photodetectors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705934	17.5	69
226	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
225	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
224	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
223	Fabrication and electrical properties of graphene nanoribbons. <i>Materials Science and Engineering Reports</i> , <b>2010</b> , 70, 341-353	30.9	68
222	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
221	A Solution Processable High-Performance Thermoelectric Copper Selenide Thin Film. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606662	24	67
220	Van der Waals thin-film electronics. <i>Nature Electronics</i> , <b>2019</b> , 2, 378-388	28.4	67
219	Scalable fabrication of self-aligned graphene transistors and circuits on glass. <i>Nano Letters</i> , <b>2012</b> , 12, 2653-7	11.5	67
218	Biomolecular specificity controlled nanomaterial synthesis. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 2512-27	58.5	66
217	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

216	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
215	Highly sensitive detection of mercury(II) ions with few-layer molybdenum disulfide. <i>Nano Research</i> , <b>2015</b> , 8, 257-262	10	65
214	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
213	Morphology-controlled synthesis of platinum nanocrystals with specific peptides. <i>Advanced Materials</i> , <b>2010</b> , 22, 1921-5	24	65
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