

Taeghwan Hyeon

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.

291
papers

51,117
citations

114
h-index

225
g-index

316
ext. papers

56,993
ext. citations

16
avg, IF

7.85
L-index

#	Paper	IF	Citations
291	Enhanced Chemodynamic Therapy by Cu-Fe Peroxide Nanoparticles: Tumor Microenvironment-Mediated Synergistic Fenton Reaction.. <i>ACS Nano</i> , 2022 ,	16.7	18
290	Effect of polystyrene nanoplastics and their degraded forms on stem cell fate.. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128411	12.8	0
289	Structural Insights into Multi-Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis (Adv. Mater. 8/2022). <i>Advanced Materials</i> , 2022 , 34, 2270065	24	
288	Metastable hexagonal close-packed palladium hydride in liquid cell TEM.. <i>Nature</i> , 2022 , 603, 631-636	50.4	4
287	Adaptive self-organization of nanomaterials enables strain-insensitive resistance of stretchable metallic nanocomposites.. <i>Advanced Materials</i> , 2022 , e2200980	24	3
286	Magic-Sized Stoichiometric II-VI Nanoclusters. <i>Small</i> , 2021 , 17, e2002067	11	13
285	Real-space imaging of nanoparticle transport and interaction dynamics by graphene liquid cell TEM. <i>Science Advances</i> , 2021 , 7, eabi5419	14.3	2
284	Slow oxidation of magnetite nanoparticles elucidates the limits of the Verwey transition. <i>Nature Communications</i> , 2021 , 12, 6356	17.4	2
283	Noble Metal-Based Multimetallic Nanoparticles for Electrocatalytic Applications. <i>Advanced Science</i> , 2021 , e2104054	13.6	7
282	Structural Insights into Multi-Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis. <i>Advanced Materials</i> , 2021 , e2107868	24	4
281	In Vivo Sol-Gel Reaction of Tantalum Alkoxide for Endovascular Embolization. <i>Advanced Healthcare Materials</i> , 2021 , e2101908	10.1	2
280	Wafer-Scale Production of Transition Metal Dichalcogenides and Alloy Monolayers by Nanocrystal Conversion for Large-Scale Ultrathin Flexible Electronics. <i>Nano Letters</i> , 2021 , 21, 9153-9163	11.5	10
279	Designing Atomically Dispersed Au on Tensile-Strained Pd for Efficient CO Electroreduction to Formate. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5386-5395	16.4	23
278	Ag (EBT) (TPP) Nanoclusters With Tailored Molecular and Electronic Structure. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9038-9044	16.4	10
277	Durable and Fatigue-Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling. <i>Advanced Materials</i> , 2021 , 33, e2007346	24	10
276	Localized Delivery of Theranostic Nanoparticles and High-Energy Photons using Microneedles-on-Bioelectronics. <i>Advanced Materials</i> , 2021 , 33, e2100425	24	15
275	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. <i>Science Advances</i> , 2021 , 7,	14.3	56

274	Neuroprosthetics: Durable and Fatigue-Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170157	24	
273	High photoluminescence from self-assembled AgCl(dppe) clusters through metallophilic interactions. <i>Journal of Chemical Physics</i> , 2021 , 155, 014307	3.9	1
272	Toward Full-Color Electroluminescent Quantum Dot Displays. <i>Nano Letters</i> , 2021 , 21, 26-33	11.5	36
271	Highly Fluorescent Gold Cluster Assembly. <i>Journal of the American Chemical Society</i> , 2021 , 143, 326-334	16.4	26
270	Highly luminescent and catalytically active suprastructures of magic-sized semiconductor nanoclusters. <i>Nature Materials</i> , 2021 , 20, 650-657	27	17
269	Self-supported mesoscopic tin oxide nanofilms for electrocatalytic reduction of carbon dioxide to formate. <i>Chemical Communications</i> , 2021 , 57, 3445-3448	5.8	2
268	One-Pot Heterointerfacial Metamorphosis for Synthesis and Control of Widely Varying Heterostructured Nanoparticles. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3383-3392	16.4	2
267	Correlating 3D Surface Atomic Structure and Catalytic Activities of Pt Nanocrystals. <i>Nano Letters</i> , 2021 , 21, 1175-1183	11.5	2
266	Role of the Precursor Composition in the Synthesis of Metal Ferrite Nanoparticles. <i>Inorganic Chemistry</i> , 2021 , 60, 4261-4268	5.1	2
265	Ag ₄₄ (EBT) ₂₆ (TPP) ₄ Nanoclusters With Tailored Molecular and Electronic Structure. <i>Angewandte Chemie</i> , 2021 , 133, 9120-9126	3.6	2
264	[PtCu(PET)Cl]: An Atomically Precise, 10-Electron PtCu Bimetal Nanocluster with a Direct Pt-Pt Bond. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12100-12107	16.4	5
263	Recent Development of Flexible and Stretchable Supercapacitors Using Transition Metal Compounds as Electrode Materials. <i>Small</i> , 2021 , 17, e2101974	11	3
262	Highly conductive and elastic nanomembrane for skin electronics. <i>Science</i> , 2021 , 373, 1022-1026	33.3	41
261	Single-atom Mn ^{II} catalysts for oxygen reduction electrocatalysis. <i>Trends in Chemistry</i> , 2021 , 3, 779-794	14.8	13
260	Oxygen-Vacancy-Driven Orbital Reconstruction at the Surface of TiO Core-Shell Nanostructures. <i>Nano Letters</i> , 2021 , 21, 7953-7959	11.5	3
259	Recent Development of Flexible and Stretchable Supercapacitors Using Transition Metal Compounds as Electrode Materials (Small 36/2021). <i>Small</i> , 2021 , 17, 2170189	11	1
258	Recent Advances and Prospects in Colloidal Nanomaterials. <i>Jacs Au</i> , 2021 , 1, 1849-1859		4
257	Three-dimensional foldable quantum dot light-emitting diodes. <i>Nature Electronics</i> , 2021 , 4, 671-680	28.4	12

256	Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 1516-1527	13.1	7
255	Soft Bioelectronics Based on Nanomaterials.. <i>Chemical Reviews</i> , 2021 ,	68.1	11
254	Recent Advances in Electrochemical Oxygen Reduction to H ₂ O ₂ : Catalyst and Cell Design. <i>ACS Energy Letters</i> , 2020 , 5, 1881-1892	20.1	74
253	Correction to Recent Advances in Electrochemical Oxygen Reduction to H ₂ O ₂ : Catalyst and Cell Design□ <i>ACS Energy Letters</i> , 2020 , 5, 2130-2130	20.1	2
252	Endosome-triggered ion-releasing nanoparticles as therapeutics to enhance the angiogenic efficacy of human mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2020 , 324, 586-597	11.7	8
251	Epitaxially Strained CeO /Mn O Nanocrystals as an Enhanced Antioxidant for Radioprotection. <i>Advanced Materials</i> , 2020 , 32, e2001566	24	33
250	Mesenchymal stem cell-derived magnetic extracellular nanovesicles for targeting and treatment of ischemic stroke. <i>Biomaterials</i> , 2020 , 243, 119942	15.6	68
249	Critical differences in 3D atomic structure of individual ligand-protected nanocrystals in solution. <i>Science</i> , 2020 , 368, 60-67	33.3	56
248	Operando Identification of the Chemical and Structural Origin of Li-Ion Battery Aging at Near-Ambient Temperature. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13406-13414	16.4	8
247	Revealing Kinetics of Two-Electron Oxygen Reduction Reaction at Single-Molecule Level. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13201-13209	16.4	11
246	A sensitive and specific nanosensor for monitoring extracellular potassium levels in the brain. <i>Nature Nanotechnology</i> , 2020 , 15, 321-330	28.7	42
245	Atomic-level tuning of Co-N-C catalyst for high-performance electrochemical HO production. <i>Nature Materials</i> , 2020 , 19, 436-442	27	315
244	Design and synthesis of multigrain nanocrystals via geometric misfit strain. <i>Nature</i> , 2020 , 577, 359-363	50.4	36
243	Nanovesicles derived from iron oxide nanoparticles-incorporated mesenchymal stem cells for cardiac repair. <i>Science Advances</i> , 2020 , 6, eaaz0952	14.3	49
242	Near-Infrared Voltage Nanosensors Enable Real-Time Imaging of Neuronal Activities in Mice and Zebrafish. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7858-7867	16.4	23
241	Inorganic nanoparticles with enzyme-mimetic activities for biomedical applications. <i>Coordination Chemistry Reviews</i> , 2020 , 403, 213092	23.2	66
240	Stretchable Low-Impedance Nanocomposite Comprised of Ag□Au Core□Shell Nanowires and Pt Black for Epicardial Recording and Stimulation. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900768	6.8	24
239	Cu Intercalation and Br Doping to Thermoelectric SnSe ₂ Lead to Ultrahigh Electron Mobility and Temperature-Independent Power Factor. <i>Advanced Functional Materials</i> , 2020 , 30, 1908405	15.6	27

238	Advances in drug delivery technology for the treatment of glioblastoma multiforme. <i>Journal of Controlled Release</i> , 2020 , 328, 350-367	11.7	25
237	Self-assembly for electronics. <i>MRS Bulletin</i> , 2020 , 45, 807-814	3.2	6
236	[Cu(PET)HCl](PPh): A Copper Hydride Nanocluster with a Bisquare Antiprismatic Core. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13974-13981	16.4	36
235	Advances in Soft Bioelectronics for Brain Research and Clinical Neuroengineering. <i>Matter</i> , 2020 , 3, 1923-1947	12.7	15
234	Curved neuromorphic image sensor array using a MoS-organic heterostructure inspired by the human visual recognition system. <i>Nature Communications</i> , 2020 , 11, 5934	17.4	60
233	Direct Synthesis of Intermetallic Platinum-Alloy Nanoparticles Highly Loaded on Carbon Supports for Efficient Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14190-14200	16.4	62
232	Electronic Band Engineering via MI3 (M = Sb, Bi) Doping Remarkably Enhances the Air Stability of Perovskite CsSnI3. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10477-10484	6.1	9
231	Exciton-driven change of phonon modes causes strong temperature dependent bandgap shift in nanoclusters. <i>Nature Communications</i> , 2020 , 11, 4127	17.4	2
230	Highly selective microglial uptake of ceria-zirconia nanoparticles for enhanced analgesic treatment of neuropathic pain. <i>Nanoscale</i> , 2019 , 11, 19437-19447	7.7	14
229	Dynamically Reversible Iron Oxide Nanoparticle Assemblies for Targeted Amplification of T1-Weighted Magnetic Resonance Imaging of Tumors. <i>Nano Letters</i> , 2019 , 19, 4213-4220	11.5	79
228	Enhanced hot electron generation by inverse metal-oxide interfaces on catalytic nanodiode. <i>Faraday Discussions</i> , 2019 , 214, 353-364	3.6	9
227	Toxicological Risk Assessments of Iron Oxide Nanocluster- and Gadolinium-Based T1MRI Contrast Agents in Renal Failure Rats. <i>ACS Nano</i> , 2019 , 13, 6801-6812	16.7	24
226	Direct Observation of Redox Mediator-Assisted Solution-Phase Discharging of Li-O Battery by Liquid-Phase Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8047-8052	16.4	39
225	CdAg(SePh): Non-Noble Metal Doped Silver Nanoclusters. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8422-8425	16.4	47
224	Reversible and cooperative photoactivation of single-atom Cu/TiO photocatalysts. <i>Nature Materials</i> , 2019 , 18, 620-626	27	275
223	Ferrimagnetic Nanochains-Based Mesenchymal Stem Cell Engineering for Highly Efficient Post-Stroke Recovery. <i>Advanced Functional Materials</i> , 2019 , 29, 1900603	15.6	43
222	Synthesis of nanostructured P2-NaMnO for high performance sodium-ion batteries. <i>Chemical Communications</i> , 2019 , 55, 4757-4760	5.8	8
221	Synergistic Oxygen Generation and Reactive Oxygen Species Scavenging by Manganese Ferrite/Ceria Co-decorated Nanoparticles for Rheumatoid Arthritis Treatment. <i>ACS Nano</i> , 2019 , 13, 3206-3217	16.7	171

220	Magnetite/Ceria Nanoparticle Assemblies for Extracorporeal Cleansing of Amyloid- β in Alzheimer's Disease. <i>Advanced Materials</i> , 2019 , 31, e1807965	24	42
219	Molecular-Level Understanding of Continuous Growth from Iron-Oxo Clusters to Iron Oxide Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7037-7045	16.4	39
218	Deep Tumor Penetration of Drug-Loaded Nanoparticles by Click Reaction-Assisted Immune Cell Targeting Strategy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13829-13840	16.4	51
217	Large scale and integrated platform for digital mass culture of anchorage dependent cells. <i>Nature Communications</i> , 2019 , 10, 4824	17.4	12
216	Redox-Sensitive Facet Dependency in Etching of Ceria Nanocrystals Directly Observed by Liquid Cell TEM. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18395-18399	16.4	12
215	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. <i>Nature Communications</i> , 2019 , 10, 5205	17.4	91
214	Facile synthesis of manganese (II)-doped ZnSe nanocrystals with controlled dimensionality. <i>Journal of Chemical Physics</i> , 2019 , 151, 244701	3.9	9
213	Amorphous-Phase-Mediated Crystallization of Ni Nanocrystals Revealed by High-Resolution Liquid-Phase Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 763-768	16.4	52
212	Design Principle of Fe-N-C Electrocatalysts: How to Optimize Multimodal Porous Structures?. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2035-2045	16.4	240
211	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. <i>Chemical Society Reviews</i> , 2019 , 48, 1566-1595	58.5	256
210	Microscopic States and the Verwey Transition of Magnetite Nanocrystals Investigated by Nuclear Magnetic Resonance. <i>Nano Letters</i> , 2018 , 18, 1745-1750	11.5	7
209	Large-Scale Synthesis and Medical Applications of Uniform-Sized Metal Oxide Nanoparticles. <i>Advanced Materials</i> , 2018 , 30, e1704290	24	58
208	Flexible quantum dot light-emitting diodes for next-generation displays. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	177
207	Room-Temperature Vapor Deposition of Cobalt Nitride Nanofilms for Mesoscopic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703114	21.8	23
206	General and Facile Coating of Single Cells via Mild Reduction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1199-1202	16.4	43
205	Enzyme-Based Glucose Sensor: From Invasive to Wearable Device. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701150	10.1	288
204	Giant thermal hysteresis in Verwey transition of single domain FeO nanoparticles. <i>Scientific Reports</i> , 2018 , 8, 5092	4.9	8
203	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2018 , 30, 1703279	24	122

202	Device-assisted transdermal drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2018 , 127, 35-45	18.5	157
201	Defect Engineering for High-Performance n-Type PbSe Thermoelectrics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9282-9290	16.4	88
200	Highly Sensitive Diagnosis of Small Hepatocellular Carcinoma Using pH-Responsive Iron Oxide Nanocluster Assemblies. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10071-10074	16.4	122
199	Microporosity-Controlled Synthesis of Heteroatom Codoped Carbon Nanocages by Wrap-Bake-Sublime Approach for Flexible All-Solid-State-Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803786	15.6	63
198	Therapeutic Efficacy-Potentiated and Diseased Organ-Targeting Nanovesicles Derived from Mesenchymal Stem Cells for Spinal Cord Injury Treatment. <i>Nano Letters</i> , 2018 , 18, 4965-4975	11.5	78
197	Highly conductive, stretchable and biocompatible Ag-Au core-sheath nanowire composite for wearable and implantable bioelectronics. <i>Nature Nanotechnology</i> , 2018 , 13, 1048-1056	28.7	440
196	Synthesis and Biomedical Applications of Multifunctional Nanoparticles. <i>Advanced Materials</i> , 2018 , 30, e1802309	24	154
195	Ceria Nanoparticle Systems for Selective Scavenging of Mitochondrial, Intracellular, and Extracellular Reactive Oxygen Species in Parkinson's Disease. <i>Angewandte Chemie</i> , 2018 , 130, 9552-9556 ^{3,6}	3.6	11
194	Multifunctional Wearable System that Integrates Sweat-Based Sensing and Vital-Sign Monitoring to Estimate Pre-/Post-Exercise Glucose Levels. <i>Advanced Functional Materials</i> , 2018 , 28, 1805754	15.6	102
193	Engineering Titanium Dioxide Nanostructures for Enhanced Lithium-Ion Storage. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16676-16684	16.4	53
192	Blood Sugar Monitoring: Multifunctional Wearable System that Integrates Sweat-Based Sensing and Vital-Sign Monitoring to Estimate Pre-/Post-Exercise Glucose Levels (Adv. Funct. Mater. 47/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870336	15.6	2
191	Arginine-Rich Manganese Silicate Nanobubbles as a Ferroptosis-Inducing Agent for Tumor-Targeted Theranostics. <i>ACS Nano</i> , 2018 , 12, 12380-12392	16.7	180
190	Co-Doping of Magic-Sized CdSe Clusters: Structural Insights via Ligand Field Transitions. <i>Nano Letters</i> , 2018 , 18, 7350-7357	11.5	12
189	Metal Oxide Nanoparticles: Large-Scale Synthesis and Medical Applications of Uniform-Sized Metal Oxide Nanoparticles (Adv. Mater. 42/2018). <i>Advanced Materials</i> , 2018 , 30, 1870319	24	2
188	High-Performance n-Type PbSe-CuSe Thermoelectrics through Conduction Band Engineering and Phonon Softening. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15535-15545	16.4	64
187	Photodynamic Therapy: Responsive Assembly of Upconversion Nanoparticles for pH-Activated and Near-Infrared-Triggered Photodynamic Therapy of Deep Tumors (Adv. Mater. 35/2018). <i>Advanced Materials</i> , 2018 , 30, 1870264	24	7
186	Ceria Nanoparticle Systems for Selective Scavenging of Mitochondrial, Intracellular, and Extracellular Reactive Oxygen Species in Parkinson's Disease. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9408-9412	16.4	125
185	Liquid-Phase Transmission Electron Microscopy for Studying Colloidal Inorganic Nanoparticles. <i>Advanced Materials</i> , 2018 , 30, 1703316	24	52

184	Sulfur-Modified Graphitic Carbon Nitride Nanostructures as an Efficient Electrocatalyst for Water Oxidation. <i>Small</i> , 2017 , 13, 1603893	11	38
183	Wearable/disposable sweat-based glucose monitoring device with multistage transdermal drug delivery module. <i>Science Advances</i> , 2017 , 3, e1601314	14.3	596
182	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6669-6674	16.4	369
181	Surface design of magnetic nanoparticles for stimuli-responsive cancer imaging and therapy. <i>Biomaterials</i> , 2017 , 136, 98-114	15.6	203
180	Chemical Synthesis, Doping, and Transformation of Magic-Sized Semiconductor Alloy Nanoclusters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6761-6770	16.4	69
179	Ceria-Zirconia Nanoparticles as an Enhanced Multi-Antioxidant for Sepsis Treatment. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11399-11403	16.4	161
178	Fully Stretchable Optoelectronic Sensors Based on Colloidal Quantum Dots for Sensing Photoplethysmographic Signals. <i>ACS Nano</i> , 2017 , 11, 5992-6003	16.7	67
177	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017 , 27, 1605286	15.6	121
176	Recent Advances in Inorganic Nanoparticle-Based NIR Luminescence Imaging: Semiconductor Nanoparticles and Lanthanide Nanoparticles. <i>Bioconjugate Chemistry</i> , 2017 , 28, 115-123	6.3	54
175	Recent development of nanoparticles for molecular imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	45
174	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. <i>Advanced Materials</i> , 2017 , 29, 1700217	11	129
173	Ceria-Zirconia Nanoparticles as an Enhanced Multi-Antioxidant for Sepsis Treatment. <i>Angewandte Chemie</i> , 2017 , 129, 11557-11561	3.6	25
172	Multifunctional nanoparticles as a tissue adhesive and an injectable marker for image-guided procedures. <i>Nature Communications</i> , 2017 , 8, 15807	17.4	41
171	Continuous O-Evolving MnFeO Nanoparticle-Anchored Mesoporous Silica Nanoparticles for Efficient Photodynamic Therapy in Hypoxic Cancer. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10992-10995	16.4	486
170	Iron oxide nanoclusters for T magnetic resonance imaging of non-human primates. <i>Nature Biomedical Engineering</i> , 2017 , 1, 637-643	19	117
169	Multiplexible Wash-Free Immunoassay Using Colloidal Assemblies of Magnetic and Photoluminescent Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 8448-8455	16.7	36
168	Magnetic Nanomaterials for Therapy 2017 , 393-438		
167	Enhancing p-Type Thermoelectric Performances of Polycrystalline SnSe via Tuning Phase Transition Temperature. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10887-10896	16.4	79

166	Ultra-Wideband Multi-Dye-Sensitized Upconverting Nanoparticles for Information Security Application. <i>Advanced Materials</i> , 2017 , 29, 1603169	24	118
165	In Vivo Micro-CT Imaging of Human Mesenchymal Stem Cells Labeled with Gold-Poly-L-Lysine Nanocomplexes. <i>Advanced Functional Materials</i> , 2017 , 27, 1604213	15.6	73
164	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , 2016 , 28, 9326-9332	24	123
163	Digital Doping in Magic-Sized CdSe Clusters. <i>ACS Nano</i> , 2016 , 10, 7135-41	16.7	41
162	Nonclassical nucleation and growth of inorganic nanoparticles. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	240
161	pH-Sensitive Pt Nanocluster Assembly Overcomes Cisplatin Resistance and Heterogeneous Stemness of Hepatocellular Carcinoma. <i>ACS Central Science</i> , 2016 , 2, 802-811	16.8	77
160	Extraordinary Off-Stoichiometric Bismuth Telluride for Enhanced n-Type Thermoelectric Power Factor. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14458-14468	16.4	63
159	Electromechanical cardioplasty using a wrapped elasto-conductive epicardial mesh. <i>Science Translational Medicine</i> , 2016 , 8, 344ra86	17.5	136
158	Recent Advances in Flexible and Stretchable Bio-Electronic Devices Integrated with Nanomaterials. <i>Advanced Materials</i> , 2016 , 28, 4203-18	24	729
157	Stretchable and Transparent Biointerface Using Cell-Sheet/Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. <i>Advanced Functional Materials</i> , 2016 , 26, 3207-3217	15.6	103
156	The surface science of nanocrystals. <i>Nature Materials</i> , 2016 , 15, 141-53	27	1017
155	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , 2016 , 11, 566-572	28.7	1093
154	Mitochondria-Targeting Ceria Nanoparticles as Antioxidants for Alzheimer's Disease. <i>ACS Nano</i> , 2016 , 10, 2860-70	16.7	334
153	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. <i>Science Advances</i> , 2016 , 2, e1501101	14.3	113
152	Stretchable Electronics: Stretchable and Transparent Biointerface Using Cell-Sheet/Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle (Adv. Funct. Mater. 19/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 3182-3182	15.6	3
151	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016 , 28, 1176-207	24	174
150	Epidermal Electronics: Cephalopod-Inspired Miniaturized Suction Cups for Smart Medical Skin (Adv. Healthcare Mater. 1/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 186-186	10.1	4
149	Nanomaterial-Based Soft Electronics for Healthcare Applications. <i>ChemNanoMat</i> , 2016 , 2, 1006-1017	3.5	47

148	Cephalopod-Inspired Miniaturized Suction Cups for Smart Medical Skin. <i>Advanced Healthcare Materials</i> , 2016 , 5, 80-7	10.1	147
147	Prospects of nanoscience with nanocrystals. <i>ACS Nano</i> , 2015 , 9, 1012-57	16.7	849
146	Iron Oxide Based Nanoparticles for Multimodal Imaging and Magneto-responsive Therapy. <i>Chemical Reviews</i> , 2015 , 115, 10637-89	68.1	675
145	Size Dependence of Metal-Insulator Transition in Stoichiometric Fe ₃ O ₄ Nanocrystals. <i>Nano Letters</i> , 2015 , 15, 4337-42	11.5	77
144	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. <i>ACS Nano</i> , 2015 , 9, 5937-46	16.7	158
143	Chemical synthesis and assembly of uniformly sized iron oxide nanoparticles for medical applications. <i>Accounts of Chemical Research</i> , 2015 , 48, 1276-85	24.3	354
142	Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. <i>Nature Communications</i> , 2015 , 6, 7149	17.4	397
141	Highly Efficient Copper-Indium-Selenide Quantum Dot Solar Cells: Suppression of Carrier Recombination by Controlled ZnS Overlayers. <i>ACS Nano</i> , 2015 , 9, 11286-95	16.7	149
140	Route to the Smallest Doped Semiconductor: Mn(2+)-Doped (CdSe) ₁₃ Clusters. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12776-9	16.4	69
139	Hybrid Cellular Nanosheets for High-Performance Lithium-Ion Battery Anodes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11954-61	16.4	100
138	Parallel Comparative Studies on Mouse Toxicity of Oxide Nanoparticle- and Gadolinium-Based T1 MRI Contrast Agents. <i>ACS Nano</i> , 2015 , 9, 12425-35	16.7	121
137	Transparent and Stretchable Interactive Human Machine Interface Based on Patterned Graphene Heterostructures. <i>Advanced Functional Materials</i> , 2015 , 25, 375-383	15.6	389
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