

Jongnam Park

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87 papers	14,000 citations	40 h-index	96 g-index
96 ext. papers	14,837 ext. citations	9 avg, IF	5.99 L-index

#	Paper	IF	Citations
87	Ultra-large-scale syntheses of monodisperse nanocrystals. <i>Nature Materials</i> , 2004 , 3, 891-5	27	3372
86	Synthesis of highly crystalline and monodisperse maghemite nanocrystallites without a size-selection process. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12798-801	16.4	1764
85	Synthesis of monodisperse spherical nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4630-60	16.4	1613
84	One-nanometer-scale size-controlled synthesis of monodisperse magnetic iron oxide nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2873-7	16.4	537
83	Monodisperse Nanoparticles of Ni and NiO: Synthesis, Characterization, Self-Assembled Superlattices, and Catalytic Applications in the Suzuki Coupling Reaction. <i>Advanced Materials</i> , 2005 , 17, 429-434	24	514
82	Designed synthesis of atom-economical pd/ni bimetallic nanoparticle-based catalysts for sonogashira coupling reactions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5026-7	16.4	429
81	Ni/NiO core/shell nanoparticles for selective binding and magnetic separation of histidine-tagged proteins. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10658-9	16.4	393
80	Kinetics of monodisperse iron oxide nanocrystal formation by "heating-up" process. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12571-84	16.4	374
79	Synthesis of Monodisperse Palladium Nanoparticles. <i>Nano Letters</i> , 2003 , 3, 1289-1291	11.5	361
78	High-Performance Sodium-Ion Hybrid Supercapacitor Based on Nb ₂ O ₅ @Carbon Core/Shell Nanoparticles and Reduced Graphene Oxide Nanocomposites. <i>Advanced Functional Materials</i> , 2016 , 26, 3711-3719	15.6	312
77	Synthesis, Characterization, and Application of Ultrasmall Nanoparticles. <i>Chemistry of Materials</i> , 2014 , 26, 59-71	9.6	291
76	Synthesis of Highly Crystalline and Monodisperse Cobalt Ferrite Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 6831-6833	3.4	264
75	Generalized synthesis of metal phosphide nanorods via thermal decomposition of continuously delivered metal-phosphine complexes using a syringe pump. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8433-40	16.4	257
74	Compact biocompatible quantum dots via RAFT-mediated synthesis of imidazole-based random copolymer ligand. <i>Journal of the American Chemical Society</i> , 2010 , 132, 472-83	16.4	241
73	Synthesis of Cu ₂ O coated Cu nanoparticles and their successful applications to Ullmann-type amination coupling reactions of aryl chlorides. <i>Chemical Communications</i> , 2004 , 778-9	5.8	197
72	Synthesis, characterization, and self-assembly of pencil-shaped CoO nanorods. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9753-60	16.4	194
71	Synthesis of hollow iron nanoframes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5812-3	16.4	178

70	Highly Biocompatible Carbon Nanodots for Simultaneous Bioimaging and Targeted Photodynamic Therapy In Vitro and In Vivo. <i>Advanced Functional Materials</i> , 2014 , 24, 5781-5789	15.6	170
69	Supercritical Continuous-Microflow Synthesis of Narrow Size Distribution Quantum Dots. <i>Advanced Materials</i> , 2008 , 20, 4830-4834	24	135
68	Synthese monodisperser sphärischer Nanokristalle. <i>Angewandte Chemie</i> , 2007 , 119, 4714-4745	3.6	134
67	One-Nanometer-Scale Size-Controlled Synthesis of Monodisperse Magnetic Iron Oxide Nanoparticles. <i>Angewandte Chemie</i> , 2005 , 117, 2932-2937	3.6	131
66	Large-scale synthesis of hexagonal pyramid-shaped ZnO nanocrystals from thermolysis of Zn-oleate complex. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14792-4	3.4	119
65	Synthesis, Characterization, and Magnetic Properties of Uniform-sized MnO Nanospheres and Nanorods. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13594-13598	3.4	114
64	Novel synthesis of magnetic Fe(2)P nanorods from thermal decomposition of continuously delivered precursors using a syringe pump. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2282-5	16.4	113
63	Simultaneous phase- and size-controlled synthesis of TiO(2) nanorods via non-hydrolytic sol-gel reaction of syringe pump delivered precursors. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 24318-23	3.4	105
62	Direct Synthesis of Highly Crystalline and Monodisperse Manganese Ferrite Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13932-13935	3.4	103
61	A magnetically separable, highly stable enzyme system based on nanocomposites of enzymes and magnetic nanoparticles shipped in hierarchically ordered, mesocellular, mesoporous silica. <i>Small</i> , 2005 , 1, 1203-7	11	99
60	Size-Dependent Activity Trends Combined with in Situ X-ray Absorption Spectroscopy Reveal Insights into Cobalt Oxide/Carbon Nanotube-Catalyzed Bifunctional Oxygen Electrocatalysis. <i>ACS Catalysis</i> , 2016 , 6, 4347-4355	13.1	95
59	High-Performance CsPbX ₃ Perovskite Quantum-Dot Light-Emitting Devices via Solid-State Ligand Exchange. <i>ACS Applied Nano Materials</i> , 2018 , 1, 488-496	5.6	81
58	All-solid-state lithium-ion batteries with TiS ₂ nanosheets and sulphide solid electrolytes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10329-10335	13	76
57	Surface Ligand Engineering for Efficient Perovskite Nanocrystal-Based Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8428-8435	9.5	76
56	Facile synthetic route for surface-functionalized magnetic nanoparticles: cell labeling and magnetic resonance imaging studies. <i>ACS Nano</i> , 2011 , 5, 4329-36	16.7	67
55	Graphene Oxide Assisted Synthesis of Self-assembled Zinc Oxide for Lithium-Ion Battery Anode. <i>Chemistry of Materials</i> , 2016 , 28, 8498-8503	9.6	65
54	Synthesis of Uniformly Sized Manganese Oxide Nanocrystals with Various Sizes and Shapes and Characterization of Their T ₁ Magnetic Resonance Relaxivity. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2148-2155	2.3	62
53	Inverted colloidal quantum dot solar cells. <i>Advanced Materials</i> , 2014 , 26, 3321-7	24	57

52	Influence of four additional activators on hydrated-lime [Ca(OH) ₂] activated ground granulated blast-furnace slag. <i>Cement and Concrete Composites</i> , 2016 , 65, 1-10	8.6	53
51	Large-Scale Synthesis of Highly Luminescent InP@ZnS Quantum Dots Using Elemental Phosphorus Precursor. <i>Chemistry of Materials</i> , 2017 , 29, 4236-4243	9.6	52
50	Ordered Mesoporous Carbon Supported Colloidal Pd Nanoparticle Based Model Catalysts for Suzuki Coupling Reactions: Impact of Organic Capping Agents. <i>ChemCatChem</i> , 2012 , 4, 1587-1594	5.2	52
49	Graphene Multilayer Supported Gold Nanoparticles for Efficient Electrocatalysts Toward Methanol Oxidation. <i>Advanced Energy Materials</i> , 2012 , 2, 1510-1518	21.8	49
48	Diameter-Controlled Synthesis of Discrete and Uniform-Sized Single-Walled Carbon Nanotubes Using Monodisperse Iron Oxide Nanoparticles Embedded in Zirconia Nanoparticle Arrays as Catalysts. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8091-8095	3.4	46
47	Synthesis of uniform-sized bimetallic ironBickel phosphide nanorods. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1609-1613	3.3	38
46	Effect of the casting solvent on the morphology of poly(styrene-b-isoprene) diblock copolymer/magnetic nanoparticle mixtures. <i>Langmuir</i> , 2006 , 22, 1375-8	4	38
45	Single and Multiple-Step Dip-Coating of Colloidal Maghemite (Fe ₂ O ₃) Nanoparticles onto Si, Si ₃ N ₄ , and SiO ₂ Substrates. <i>Advanced Functional Materials</i> , 2004 , 14, 1062-1068	15.6	36
44	Novel Synthesis of Magnetic Fe ₂ P Nanorods from Thermal Decomposition of Continuously Delivered Precursors using a Syringe Pump. <i>Angewandte Chemie</i> , 2004 , 116, 2332-2335	3.6	34
43	Effects of ionic liquid molecules in hybrid PbS quantum dot-organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1757-60	9.5	33
42	Incorporation of thrombin cleavage peptide into a protein cage for constructing a protease-responsive multifunctional delivery nanoplatfrom. <i>Biomacromolecules</i> , 2012 , 13, 4057-64	6.9	30
41	High-Performance Flexible Organic Nano-Floating Gate Memory Devices Functionalized with Cobalt Ferrite Nanoparticles. <i>Small</i> , 2015 , 11, 4976-84	11	28
40	Seed-mediated synthesis of ultra-long copper nanowires and their application as transparent conducting electrodes. <i>Applied Surface Science</i> , 2017 , 422, 731-737	6.7	25
39	Effect of interacting nanoparticles on the ordered morphology of block copolymer/nanoparticle mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 3571-3579	2.6	25
38	Exchange bias behavior of monodisperse Fe ₃ O ₄ /Fe ₂ O ₃ core/shell nanoparticles. <i>Current Applied Physics</i> , 2012 , 12, 808-811	2.6	24
37	Coordination Polymers for High-Capacity Li-Ion Batteries: Metal-Dependent Solid-State Reversibility. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22110-22118	9.5	22
36	Photon energy transfer by quantum dots in organicInorganic hybrid solar cells through FRET. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10444-10453	13	20
35	A new polymeric binder for silicon-carbon nanotube composites in lithium ion battery. <i>Macromolecular Research</i> , 2013 , 21, 826-831	1.9	17

34	Insertion of an Inorganic Barrier Layer as a Method of Improving the Performance of Quantum Dot Light-Emitting Diodes. <i>ACS Photonics</i> , 2019 , 6, 743-748	6.3	16
33	Facile Method to Prepare for the NiP Nanostructures with Controlled Crystallinity and Morphology as Anode Materials of Lithium-Ion Batteries. <i>ACS Omega</i> , 2018 , 3, 7655-7662	3.9	15
32	Synergistic photocurrent addition in hybrid quantum dot: Bulk heterojunction solar cells. <i>Nano Energy</i> , 2015 , 13, 491-499	17.1	14
31	Solution-processed CdS transistors with high electron mobility. <i>RSC Advances</i> , 2014 , 4, 3153-3157	3.7	14
30	Molybdenum and Tungsten Sulfide Ligands for Versatile Functionalization of All-Inorganic Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3627-35	6.4	13
29	Enhanced Mechanical Properties of Polymer Nanocomposites Using Dopamine-Modified Polymers at Nanoparticle Surfaces in Very Low Molecular Weight Polymers. <i>ACS Macro Letters</i> , 2018 , 7, 962-967	6.6	13
28	Inter-particle and interfacial interaction of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, e806-e808	2.8	12
27	Facile synthesis and direct characterization of surface-charge-controlled magnetic iron oxide nanoparticles and their role in gene transfection in human leukemic T cell. <i>Applied Surface Science</i> , 2019 , 483, 1069-1080	6.7	11
26	Transition Metal-Based Thiometallates as Surface Ligands for Functionalization of All-Inorganic Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 10510-10517	9.6	11
25	Bio-Inspired Catecholamine-Derived Surface Modifier for Graphene-Based Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6463-6468	6.1	9
24	Synthesis of nano-sized urchin-shaped LiFePO ₄ for lithium ion batteries.. <i>RSC Advances</i> , 2019 , 9, 13714-13721	3.7	8
23	High colloidal stability ZnO nanoparticles independent on solvent polarity and their application in polymer solar cells. <i>Scientific Reports</i> , 2020 , 10, 18055	4.9	8
22	Influence of the structural modification of polycarboxylate copolymer with a low dispersing ability on the set-retarding of Portland cement. <i>KSCCE Journal of Civil Engineering</i> , 2015 , 19, 1787-1794	1.9	7
21	Synthesis and characterization of In _{1-x} Ga _x P@ZnS alloy core-shell type colloidal quantum dots. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 88, 106-110	6.3	7
20	Thermally Cross-Linkable Diamino-Polyethylene Glycol Additive with Polymeric Binder for Stable Cyclability of Silicon Nanoparticle Based Negative Electrodes in Lithium Ion Batteries. <i>Science of Advanced Materials</i> , 2016 , 8, 252-256	2.3	6
19	Fabrication of Carbon Microcapsules Containing Silicon Nanoparticles-Carbon Nanotubes Nanocomposite for Anode in Lithium Ion Battery. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 3025-3032	1.2	6
18	Zinc Oxo Clusters Improve the Optoelectronic Properties on Indium Phosphide Quantum Dots. <i>Chemistry of Materials</i> , 2020 , 32, 2795-2802	9.6	5
17	Highly Emissive Blue Quantum Dots with Superior Thermal Stability via In Situ Surface Reconstruction of Mixed CsPbBr ₃ -Cs PbBr Nanocrystals.. <i>Advanced Science</i> , 2021 , e2104660	13.6	5

16	Development of Recombinant Immunoglobulin G-Binding Luciferase-Based Signal Amplifiers in Immunoassays. <i>Analytical Chemistry</i> , 2020 , 92, 5473-5481	7.8	4
15	Surface engineered gold nanoparticles through highly stable metal-surfactant complexes. <i>Journal of Colloid and Interface Science</i> , 2016 , 464, 110-6	9.3	4
14	Superparamagnetic NiO-doped mesoporous silica flower-like microspheres with high nickel content. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 81, 99-107	6.3	4
13	Photodynamic Therapy: Highly Biocompatible Carbon Nanodots for Simultaneous Bioimaging and Targeted Photodynamic Therapy In Vitro and In Vivo (Adv. Funct. Mater. 37/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 5774-5774	15.6	3
12	Synthesis and catalytic applications of uniform-sized nanocrystals. <i>Studies in Surface Science and Catalysis</i> , 2006 , 159, 47-54	1.8	3
11	Colloidal Suprastructures Self-Organized from Oppositely Charged All-Inorganic Nanoparticles. <i>Chemistry of Materials</i> , 2020 , 32, 8662-8671	9.6	3
10	Paclitaxel-induced formation of 3D nanocrystal superlattices within injectable protein-based hybrid nanoparticles. <i>Chemical Communications</i> , 2018 , 54, 11586-11589	5.8	3
9	Control of Particle Dispersion with Autophobic Dewetting in Polymer Nanocomposites. <i>Macromolecules</i> , 2020 , 53, 4836-4844	5.5	2
8	Direct Chemical Imaging of Ligand-Functionalized Single Nanoparticles by Photoinduced Force Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5785-5791	6.4	2
7	Controlled specific placement of nanoparticles into microdomains of block copolymer thin films. <i>Thin Solid Films</i> , 2014 , 562, 338-342	2.2	2
6	Charge-Modulated Synthesis of Highly Stable Iron Oxide Nanoparticles for In Vitro and In Vivo Toxicity Evaluation. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
5	Bandgap Modulation of CsAgInX (X = Cl and Br) Double Perovskite Nano- and Microcrystals via Cu Doping. <i>ACS Omega</i> , 2021 , 6, 26952-26958	3.9	2
4	Eco-Friendly Synthesis of Water-Glass-Based Silica Aerogels via Catechol-Based Modifier. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
3	Molecularly Smooth and Conformal Nanocoating by Amine-Mediated Redox Modulation of Catechol. <i>Chemistry of Materials</i> , 2021 , 33, 952-965	9.6	2
2	Highly sensitive pregnancy test kit via oriented antibody conjugation on brush-type ligand-coated quantum beads. <i>Biosensors and Bioelectronics</i> , 2022 , 114441	11.8	2
1	Tailor-Made Charged Catechol-Based Polymeric Ligands to Build Robust Fuel Cells Containing Antioxidative Nanoparticles. <i>Advanced Electronic Materials</i> , 2200171	6.4	0