

Hyon Bin Na

List of Publications by Year in descending order

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60
papers

11,322
citations

94381

37
h-index

123376

61
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64
all docs

64
docs citations

64
times ranked

15689
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Highly Crystalline and Monodisperse Maghemite Nanocrystallites without a Size-Selection Process. <i>Journal of the American Chemical Society</i> , 2001, 123, 12798-12801.	6.6	1,937
2	Inorganic Nanoparticles for MRI Contrast Agents. <i>Advanced Materials</i> , 2009, 21, 2133-2148.	11.1	1,597
3	Large-Scale Synthesis of Uniform and Extremely Small-Sized Iron Oxide Nanoparticles for High-Resolution T_1 Magnetic Resonance Imaging Contrast Agents. <i>Journal of the American Chemical Society</i> , 2011, 133, 12624-12631.	6.6	835
4	Generalized and Facile Synthesis of Semiconducting Metal Sulfide Nanocrystals. <i>Journal of the American Chemical Society</i> , 2003, 125, 11100-11105.	6.6	619
5	Nonblinking and Nonbleaching Upconverting Nanoparticles as an Optical Imaging Nanoprobe and T_1 Magnetic Resonance Imaging Contrast Agent. <i>Advanced Materials</i> , 2009, 21, 4467-4471.	11.1	548
6	Development of a T_1 Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5397-5401.	7.2	545
7	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, 5026-5027.	6.6	465
8	Wrap-and-bake peel process for nanostructural transformation from Fe_2FeOOH nanorods to biocompatible iron oxide nanocapsules. <i>Nature Materials</i> , 2008, 7, 242-247.	13.3	401
9	Luminescent quantum dots as platforms for probing in vitro and in vivo biological processes. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 138-166.	6.6	386
10	Simple Synthesis of Functionalized Superparamagnetic Magnetite/Silica Core/Shell Nanoparticles and their Application as Magnetically Separable High-Performance Biocatalysts. <i>Small</i> , 2008, 4, 143-152.	5.2	351
11	Synthesis of Nanorattles Composed of Gold Nanoparticles Encapsulated in Mesoporous Carbon and Polymer Shells. <i>Nano Letters</i> , 2002, 2, 1383-1387.	4.5	258
12	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. <i>Nature Materials</i> , 2013, 12, 359-366.	13.3	240
13	Nanostructured T_1 MRI contrast agents. <i>Journal of Materials Chemistry</i> , 2009, 19, 6267.	6.7	233
14	On the pH-Dependent Quenching of Quantum Dot Photoluminescence by Redox Active Dopamine. <i>Journal of the American Chemical Society</i> , 2012, 134, 6006-6017.	6.6	213
15	Synthesis of Uniform Hollow Oxide Nanoparticles through Nanoscale Acid Etching. <i>Nano Letters</i> , 2008, 8, 4252-4258.	4.5	210
16	Simple Fabrication of a Highly Sensitive and Fast Glucose Biosensor Using Enzymes Immobilized in Mesocellular Carbon Foam. <i>Advanced Materials</i> , 2005, 17, 2828-2833.	11.1	202
17	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: A simple and effective method for enzyme stabilization. <i>Biotechnology and Bioengineering</i> , 2007, 96, 210-218.	1.7	187
18	Multidentate Catechol-Based Polyethylene Glycol Oligomers Provide Enhanced Stability and Biocompatibility to Iron Oxide Nanoparticles. <i>ACS Nano</i> , 2012, 6, 389-399.	7.3	174

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19	MR tracking of transplanted cells with ϵ -positive contrast ϵ -using manganese oxide nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1-7.	1.9	164
20	Simple and Generalized Synthesis of Oxide \sim Metal Heterostructured Nanoparticles and their Applications in Multimodal Biomedical Probes. <i>Journal of the American Chemical Society</i> , 2008, 130, 15573-15580.	6.6	162
21	Various-Shaped Uniform Mn ₃ O ₄ Nanocrystals Synthesized at Low Temperature in Air Atmosphere. <i>Chemistry of Materials</i> , 2009, 21, 2272-2279.	3.2	135
22	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, 1203-1207.	5.2	106
23	Versatile PEG-derivatized phosphine oxide ligands for water-dispersible metal oxide nanocrystals. <i>Chemical Communications</i> , 2007, , 5167.	2.2	93
24	Paramagnetic inorganic nanoparticles as T_1 MRI contrast agents. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 196-209.	3.3	89
25	Selective oxygen species for the oxidative coupling of methane. <i>Molecular Catalysis</i> , 2017, 435, 13-23.	1.0	79
26	β -Glucosidase coating on polymer nanofibers for improved cellulosic ethanol production. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 141-147.	1.7	73
27	In vitro cytotoxicity screening of water-dispersible metal oxide nanoparticles in human cell lines. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 21-30.	1.7	72
28	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.	1.0	71
29	One-dimensional crosslinked enzyme aggregates in SBA-15: Superior catalytic behavior to conventional enzyme immobilization. <i>Microporous and Mesoporous Materials</i> , 2008, 111, 18-23.	2.2	69
30	Design of a Multi-Dopamine-Modified Polymer Ligand Optimally Suited for Interfacing Magnetic Nanoparticles with Biological Systems. <i>Langmuir</i> , 2014, 30, 6197-6208.	1.6	63
31	Poly(ethylene glycol)-Based Multidentate Oligomers for Biocompatible Semiconductor and Gold Nanocrystals. <i>Langmuir</i> , 2012, 28, 2761-2772.	1.6	62
32	Effects of the preparation method on the crystallinity and catalytic activity of LaAlO ₃ perovskites for oxidative coupling of methane. <i>Applied Surface Science</i> , 2018, 429, 55-61.	3.1	50
33	Solventless synthesis of an iron-oxide/graphene nanocomposite and its application as an anode in high-rate Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15442.	5.2	48
34	Magnetically-separable and highly-stable enzyme system based on crosslinked enzyme aggregates shipped in magnetite-coated mesoporous silica. <i>Journal of Materials Chemistry</i> , 2009, 19, 7864.	6.7	44
35	Hydrogen production by catalytic decalin dehydrogenation over carbon-supported platinum catalyst: Effect of catalyst preparation method. <i>Catalysis Communications</i> , 2015, 67, 40-44.	1.6	43
36	Sensitive and high-fidelity electrochemical immunoassay using carbon nanotubes coated with enzymes and magnetic nanoparticles. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3192-3199.	5.3	37

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37	Visual determination of hydrogen peroxide and glucose by exploiting the peroxidase-like activity of magnetic nanoparticles functionalized with a poly(ethylene glycol) derivative. <i>Mikrochimica Acta</i> , 2017, 184, 2115-2122.	2.5	35
38	Mesoporous silica-coated luminescent Eu ³⁺ -doped GdVO ₄ nanoparticles for multimodal imaging and drug delivery. <i>RSC Advances</i> , 2014, 4, 45687-45695.	1.7	31
39	Rapid and efficient protein digestion using trypsin-coated magnetic nanoparticles under pressure cycles. <i>Proteomics</i> , 2011, 11, 309-318.	1.3	30
40	Surface Plasmon Resonance Characteristics of Au Nanoparticles Layered Sensor Chip for Direct Detection of Stress Hormone Conjugated by Nanoparticles. <i>Biochip Journal</i> , 2018, 12, 249-256.	2.5	23
41	Multiple roles of palladium-coated magnetic anisotropic particles as catalysts, catalyst supports, and micro-stirrers. <i>Chemical Engineering Journal</i> , 2018, 339, 125-132.	6.6	22
42	Synthesis of mesoporous lanthanum hydroxide with enhanced adsorption performance for phosphate removal. <i>RSC Advances</i> , 2019, 9, 15257-15264.	1.7	21
43	CsPbBr ₃ Perovskite Quantum Dot Light-Emitting Diodes Using Atomic Layer Deposited Al ₂ O ₃ and ZnO Interlayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900573.	1.2	19
44	Yield Stress Enhancement of a Ternary Colloidal Suspension via the Addition of Minute Amounts of Sodium Alginate to the Interparticle Capillary Bridges. <i>Langmuir</i> , 2020, 36, 9424-9435.	1.6	19
45	Single enzyme nanoparticles armored by a thin silicate network: Single enzyme caged nanoparticles. <i>Chemical Engineering Journal</i> , 2017, 322, 510-515.	6.6	18
46	Anti-Galvanic Reduction of Silver Ion on Gold and Its Role in Anisotropic Growth of Gold Nanomaterials. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25974-25982.	1.5	16
47	Efficient protein digestion using highly-stable and reproducible trypsin coatings on magnetic nanofibers. <i>Chemical Engineering Journal</i> , 2016, 288, 770-777.	6.6	15
48	Enhanced Brightness and Device Lifetime of Quantum Dot Light-Emitting Diodes by Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000343.	1.9	12
49	Single Step Isolation and Activation of Primary CD3 ⁺ T Lymphocytes Using Alcohol-Dispersed Electrospun Magnetic Nanofibers. <i>Nano Letters</i> , 2012, 12, 4018-4024.	4.5	11
50	Facile Synthesis of Monodispersed Cubic and Spherical Calcite Nanoparticles in the Presence of Cetyltrimethylammonium Bromide. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 2702-2714.	0.9	11
51	Hollow MnOxPy and Pt/MnOxPy yolk/shell nanoparticles as a T1 MRI contrast agent. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 134-138.	5.0	7
52	Photopolymerization-Based Synthesis of Uniform Magnetic Hydrogels and Colorimetric Glucose Detection. <i>Materials</i> , 2020, 13, 4401.	1.3	7
53	Bulk Nanoencapsulation of Phase Change Materials (PCMs) via Spontaneous Spreading of a UV-Curable Prepolymer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51092-51101.	4.0	6
54	Analog Memristive Characteristics of Square Shaped Lanthanum Oxide Nanoplates Layered Device. <i>Nanomaterials</i> , 2021, 11, 441.	1.9	4

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55	Quantitation of Oxidative Stress Gene Expression in Human Cell Lines Treated with Water-Dispersible MnO Nanoparticles. Journal of Nanoscience and Nanotechnology, 2015, 15, 4126-4135.	0.9	3
56	CsPbBr ₃ Perovskite Quantum Dot Light-Emitting Diodes Using Atomic Layer Deposited Al ₂ O ₃ and ZnO Interlayers. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2070012.	1.2	3
57	Pt@Cu/C Core-Shell Catalysts for Hydrogen Production Through Catalytic Dehydrogenation of Decalin. Korean Journal of Materials Research, 2016, 26, 17-21.	0.1	2
58	Light-Emitting Diodes: Enhanced Brightness and Device Lifetime of Quantum Dot Light-Emitting Diodes by Atomic Layer Deposition (Adv. Mater. Interfaces 12/2020). Advanced Materials Interfaces, 2020, 7, 2070067.	1.9	1
59	Synthesis of Pt/C Nanocatalysts by Galvanic Replacement for Dehydrogenation of Decalin. Science of Advanced Materials, 2017, 9, 1540-1545.	0.1	1
60	Generalized and Facile Synthesis of Semiconducting Metal Sulfide Nanocrystals.. ChemInform, 2003, 34, no.	0.1	0