

Hyon Bin Na

List of Publications by Citations

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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.

60
papers

10,161
citations

34
h-index

64
g-index

64
ext. papers

10,746
ext. citations

9.3
avg, IF

5.85
L-index

#	Paper	IF	Citations
60	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
59	Inorganic Nanoparticles for MRI Contrast Agents. <i>Advanced Materials</i> , 2009 , 21, 2133-2148	24	1446
58	Large-scale synthesis of uniform and extremely small-sized iron oxide nanoparticles for high-resolution T1 magnetic resonance imaging contrast agents. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12624-31	16.4	691
57	Generalized and facile synthesis of semiconducting metal sulfide nanocrystals. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11100-5	16.4	572
56	Development of a T1 contrast agent for magnetic resonance imaging using MnO nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5397-401	16.4	505
55	Nonblinking and Nonbleaching Upconverting Nanoparticles as an Optical Imaging Nanoprobe and T1 Magnetic Resonance Imaging Contrast Agent. <i>Advanced Materials</i> , 2009 , 21, 4467-4471	24	501
54	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
53	Wrap-bake-peel process for nanostructural transformation from beta-FeOOH nanorods to biocompatible iron oxide nanocapsules. <i>Nature Materials</i> , 2008 , 7, 242-7	27	371
52	Luminescent quantum dots as platforms for probing in vitro and in vivo biological processes. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 138-66	18.5	347
51	Simple synthesis of functionalized superparamagnetic magnetite/silica core/shell nanoparticles and their application as magnetically separable high-performance biocatalysts. <i>Small</i> , 2008 , 4, 143-52	11	338
50	Synthesis of Nanorattles Composed of Gold Nanoparticles Encapsulated in Mesoporous Carbon and Polymer Shells. <i>Nano Letters</i> , 2002 , 2, 1383-1387	11.5	242
49	Nanostructured T1 MRI contrast agents. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6267		223
48	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. <i>Nature Materials</i> , 2013 , 12, 359-66	27	218
47	Synthesis of uniform hollow oxide nanoparticles through nanoscale acid etching. <i>Nano Letters</i> , 2008 , 8, 4252-8	11.5	192
46	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	24	186
45	On the pH-dependent quenching of quantum dot photoluminescence by redox active dopamine. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6006-17	16.4	179
44	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: a simple and effective method for enzyme stabilization. <i>Biotechnology and Bioengineering</i> , 2007 , 96, 210-8	4.9	173

43	Multidentate catechol-based polyethylene glycol oligomers provide enhanced stability and biocompatibility to iron oxide nanoparticles. <i>ACS Nano</i> , 2012 , 6, 389-99	16.7	160
42	Simple and generalized synthesis of oxide-metal heterostructured nanoparticles and their applications in multimodal biomedical probes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15573-80	16.4	156
41	MR tracking of transplanted cells with "positive contrast" using manganese oxide nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1-7	4.4	151
40	Various-Shaped Uniform Mn ₃ O ₄ Nanocrystals Synthesized at Low Temperature in Air Atmosphere. <i>Chemistry of Materials</i> , 2009 , 21, 2272-2279	9.6	121
39	Development of a T1 Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. <i>Angewandte Chemie</i> , 2007 , 119, 5493-5497	3.6	119
38	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
37	Versatile PEG-derivatized phosphine oxide ligands for water-dispersible metal oxide nanocrystals. <i>Chemical Communications</i> , 2007 , 5167-9	5.8	80
36	Paramagnetic inorganic nanoparticles as T1 MRI contrast agents. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014 , 6, 196-209	9.2	66
35	Beta-glucosidase coating on polymer nanofibers for improved cellulosic ethanol production. <i>Bioprocess and Biosystems Engineering</i> , 2010 , 33, 141-7	3.7	65
34	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	5.3	65
33	Synthesis of Uniformly Sized Manganese Oxide Nanocrystals with Various Sizes and Shapes and Characterization of Their T1 Magnetic Resonance Relaxivity. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2148-2155	2.3	62
32	In vitro cytotoxicity screening of water-dispersible metal oxide nanoparticles in human cell lines. <i>Bioprocess and Biosystems Engineering</i> , 2010 , 33, 21-30	3.7	61
31	Poly(ethylene glycol)-based multidentate oligomers for biocompatible semiconductor and gold nanocrystals. <i>Langmuir</i> , 2012 , 28, 2761-72	4	59
30	Design of a multi-dopamine-modified polymer ligand optimally suited for interfacing magnetic nanoparticles with biological systems. <i>Langmuir</i> , 2014 , 30, 6197-208	4	57
29	Selective oxygen species for the oxidative coupling of methane. <i>Molecular Catalysis</i> , 2017 , 435, 13-23	3.3	51
28	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	13	44
27	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		43
26	Sensitive and high-fidelity electrochemical immunoassay using carbon nanotubes coated with enzymes and magnetic nanoparticles. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3192-9	11.8	34

25	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	6.7	33
24	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	5.8	31
23	Hydrogen production by catalytic decalin dehydrogenation over carbon-supported platinum catalyst: Effect of catalyst preparation method. <i>Catalysis Communications</i> , 2015 , 67, 40-44	3.2	30
22	Rapid and efficient protein digestion using trypsin-coated magnetic nanoparticles under pressure cycles. <i>Proteomics</i> , 2011 , 11, 309-18	4.8	27
21	Mesoporous silica-coated luminescent Eu ³⁺ doped GdVO ₄ nanoparticles for multimodal imaging and drug delivery. <i>RSC Advances</i> , 2014 , 4, 45687-45695	3.7	26
20	Multiple roles of palladium-coated magnetic anisotropic particles as catalysts, catalyst supports, and micro-stirrers. <i>Chemical Engineering Journal</i> , 2018 , 339, 125-132	14.7	17
19	Single enzyme nanoparticles armored by a thin silicate network: Single enzyme caged nanoparticles. <i>Chemical Engineering Journal</i> , 2017 , 322, 510-515	14.7	16
18	Synthesis of mesoporous lanthanum hydroxide with enhanced adsorption performance for phosphate removal.. <i>RSC Advances</i> , 2019 , 9, 15257-15264	3.7	15
17	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	4	15
16	Efficient protein digestion using highly-stable and reproducible trypsin coatings on magnetic nanofibers. <i>Chemical Engineering Journal</i> , 2016 , 288, 770-777	14.7	14
15	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	3.8	14
14	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	2.5	12
13	Single step isolation and activation of primary CD3 ⁺ T lymphocytes using alcohol-dispersed electrospun magnetic nanofibers. <i>Nano Letters</i> , 2012 , 12, 4018-24	11.5	10
12	Facile Synthesis of Monodispersed Cubic and Spherical Calcite Nanoparticles in the Presence of Cetyltrimethylammonium Bromide. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 2702-14	1.3	6
11	Hollow MnOxPy and Pt/MnOxPy yolk/shell nanoparticles as a T1 MRI contrast agent. <i>Journal of Colloid and Interface Science</i> , 2015 , 439, 134-8	9.3	6
10	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	4	5
9	Enhanced Brightness and Device Lifetime of Quantum Dot Light-Emitting Diodes by Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000343	4.6	4
8	Quantitation of Oxidative Stress Gene Expression in Human Cell Lines Treated with Water-Dispersible MnO Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4126-35	1.3	2

7	MRI Contrast Agents Based on Inorganic Nanoparticles 2011 , 279-308		2
6	Photopolymerization-Based Synthesis of Uniform Magnetic Hydrogels and Colorimetric Glucose Detection. <i>Materials</i> , 2020 , 13,	3.5	2
5	Pt@Cu/C Core-Shell Catalysts for Hydrogen Production Through Catalytic Dehydrogenation of Decalin. <i>Korean Journal of Materials Research</i> , 2016 , 26, 17-21	0.2	1
4	Analog Memristive Characteristics of Square Shaped Lanthanum Oxide Nanoplates Layered Device. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
3	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, 2070012	2.5	0
2	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	9.5	0
1	Light-Emitting Diodes: Enhanced Brightness and Device Lifetime of Quantum Dot Light-Emitting Diodes by Atomic Layer Deposition (Adv. Mater. Interfaces 12/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070067	4.6	