

Nohyun Lee

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64
papers

11,855
citations

42
h-index

66
g-index

66
ext. papers

13,125
ext. citations

13.9
avg, IF

6.58
L-index

#	Paper	IF	Citations
64	Multifunctional uniform nanoparticles composed of a magnetite nanocrystal core and a mesoporous silica shell for magnetic resonance and fluorescence imaging and for drug delivery. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8438-41	16.4	1065
63	Designed synthesis of uniformly sized iron oxide nanoparticles for efficient magnetic resonance imaging contrast agents. <i>Chemical Society Reviews</i> , 2012 , 41, 2575-89	58.5	751
62	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
61	Iron Oxide Based Nanoparticles for Multimodal Imaging and Magneto-responsive Therapy. <i>Chemical Reviews</i> , 2015 , 115, 10637-89	68.1	675
60	Uniform mesoporous dye-doped silica nanoparticles decorated with multiple magnetite nanocrystals for simultaneous enhanced magnetic resonance imaging, fluorescence imaging, and drug delivery. <i>Journal of the American Chemical Society</i> , 2010 , 132, 552-7	16.4	645
59	Multifunctional mesoporous silica nanocomposite nanoparticles for theranostic applications. <i>Accounts of Chemical Research</i> , 2011 , 44, 893-902	24.3	608
58	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
57	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
56	Mesoporous silica-coated hollow manganese oxide nanoparticles as positive T1 contrast agents for labeling and MRI tracking of adipose-derived mesenchymal stem cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2955-61	16.4	446
55	Nano-sized CT contrast agents. <i>Advanced Materials</i> , 2013 , 25, 2641-60	24	411
54	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
53	Synthesis of uniform ferrimagnetic magnetite nanocubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 454-5	16.4	383
52	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
51	Theranostic probe based on lanthanide-doped nanoparticles for simultaneous in vivo dual-modal imaging and photodynamic therapy. <i>Advanced Materials</i> , 2012 , 24, 5755-61	24	334
50	Self-assembled Fe ₃ O ₄ nanoparticle clusters as high-performance anodes for lithium ion batteries via geometric confinement. <i>Nano Letters</i> , 2013 , 13, 4249-56	11.5	302
49	Large-scale synthesis of bioinert tantalum oxide nanoparticles for X-ray computed tomography imaging and bimodal image-guided sentinel lymph node mapping. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5508-15	16.4	270
48	Chitosan oligosaccharide-stabilized ferrimagnetic iron oxide nanocubes for magnetically modulated cancer hyperthermia. <i>ACS Nano</i> , 2012 , 6, 5266-73	16.7	263

47	Water-dispersible ferrimagnetic iron oxide nanocubes with extremely high r ₁ relaxivity for highly sensitive in vivo MRI of tumors. <i>Nano Letters</i> , 2012 , 12, 3127-31	11.5	238
46	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. <i>Nature Materials</i> , 2013 , 12, 359-66	27	218
45	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
44	Multifunctional Fe ₃ O ₄ /TaO(x) core/shell nanoparticles for simultaneous magnetic resonance imaging and X-ray computed tomography. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10309-12	16.4	193
43	A Review on Biosensors and Recent Development of Nanostructured Materials-Enabled Biosensors. <i>Sensors</i> , 2021 , 21,	3.8	177
42	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
41	Magnetosome-like ferrimagnetic iron oxide nanocubes for highly sensitive MRI of single cells and transplanted pancreatic islets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2662-7	11.5	166
40	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. <i>ACS Nano</i> , 2015 , 9, 5937-46	16.7	158
39	Magnetic nanocomposite spheres decorated with NiO nanoparticles for a magnetically recyclable protein separation system. <i>Advanced Materials</i> , 2010 , 22, 57-60	24	138
38	Electromechanical cardioplasty using a wrapped elasto-conductive epicardial mesh. <i>Science Translational Medicine</i> , 2016 , 8, 344ra86	17.5	136
37	Recent Development of Inorganic Nanoparticles for Biomedical Imaging. <i>ACS Central Science</i> , 2018 , 4, 324-336	16.8	135
36	Multifunctional Uniform Nanoparticles Composed of a Magnetite Nanocrystal Core and a Mesoporous Silica Shell for Magnetic Resonance and Fluorescence Imaging and for Drug Delivery. <i>Angewandte Chemie</i> , 2008 , 120, 8566-8569	3.6	127
35	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
34	Iron oxide nanoclusters for T ₂ magnetic resonance imaging of non-human primates. <i>Nature Biomedical Engineering</i> , 2017 , 1, 637-643	19	117
33	Iron oxide nanoparticle-mediated development of cellular gap junction crosstalk to improve mesenchymal stem cells therapeutic efficacy for myocardial infarction. <i>ACS Nano</i> , 2015 , 9, 2805-19	16.7	102
32	Enhancement of neurite outgrowth in PC12 cells by iron oxide nanoparticles. <i>Biomaterials</i> , 2011 , 32, 2871-7	15.6	93
31	Large-Scale Synthesis of Ultrathin Manganese Oxide Nanoplates and Their Applications to T ₁ MRI Contrast Agents. <i>Chemistry of Materials</i> , 2011 , 23, 3318-3324	9.6	83
30	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

29	Multifunctional mesoporous silica nanocomposite nanoparticles for pH controlled drug release and dual modal imaging. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16869		69
28	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
27	In vitro study on apoptotic cell death by effective magnetic hyperthermia with chitosan-coated MnFe ₂ O ₄ . <i>Nanotechnology</i> , 2016 , 27, 115101	3.4	55
26	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
25	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
24	Recent development of nanoparticles for molecular imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	45
23	Transformation of hydrophobic iron oxide nanoparticles to hydrophilic and biocompatible maghemite nanocrystals for use as highly efficient MRI contrast agent. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11472		42
22	Multifunctional nanoparticles as a tissue adhesive and an injectable marker for image-guided procedures. <i>Nature Communications</i> , 2017 , 8, 15807	17.4	41
21	Epitaxially Strained CeO ₂ /MnO Nanocrystals as an Enhanced Antioxidant for Radioprotection. <i>Advanced Materials</i> , 2020 , 32, e2001566	24	33
20	Fucoidan-Manganese Dioxide Nanoparticles Potentiate Radiation Therapy by Co-Targeting Tumor Hypoxia and Angiogenesis. <i>Marine Drugs</i> , 2018 , 16,	6	30
19	Zn(II)-Doped Cesium Lead Halide Perovskite Nanocrystals with High Quantum Yield and Wide Color Tunability for Color-Conversion Light-Emitting Displays. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7621-7632	5.6	29
18	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
17	Enhanced Chemodynamic Therapy by Cu-Fe Peroxide Nanoparticles: Tumor Microenvironment-Mediated Synergistic Fenton Reaction.. <i>ACS Nano</i> , 2022 ,	16.7	18
16	Synthesis of CsPbX ₃ (X = Cl/Br, Br, and Br/I)@SiO ₂ /PMMA composite films as color-conversion materials for achieving tunable multi-color and white light emission. <i>Nano Research</i> , 2021 , 14, 1187-1194 ¹⁰		12
15	Targeted Delivery of Iron Oxide Nanoparticle-Loaded Human Embryonic Stem Cell-Derived Spherical Neural Masses for Treating Intracerebral Hemorrhage. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
14	Macrophages homing to metastatic lymph nodes can be monitored with ultrasensitive ferromagnetic iron-oxide nanocubes and a 1.5T clinical MR scanner. <i>PLoS ONE</i> , 2012 , 7, e29575	3.7	10
13	Shape-Controlled Synthesis of Au Nanostructures Using EDTA Tetrasodium Salt and Their Photothermal Therapy Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	8
12	NIR luminescence and energy transfer kinetics in Nd ³⁺ /Yb ³⁺ co-doped sodium aluminium bismuth fluoro-borosilicate glasses. <i>Ceramics International</i> , 2019 , 45, 22649-22659	5.1	8

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	KGaP2O7:Mn4+ deep red emitting phosphor: Synthesis, structure, concentration and temperature dependent photoluminescence characteristics. <i>Journal of Luminescence</i> , 2019 , 214, 116565	3.8	5
9	Multiple-Interaction Ligands Inspired by Mussel Adhesive Protein: Synthesis of Highly Stable and Biocompatible Nanoparticles. <i>Angewandte Chemie</i> , 2011 , 123, 11562-11567	3.6	4
8	Manganese Ferrite Nanoparticles Enhance the Sensitivity of Hepa1-6 Hepatocellular Carcinoma to Radiation by Remodeling Tumor Microenvironments. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
7	Dy3+/Pr3+ co-doped fluoro-borosilicate glasses: Energy transfer induced color-tunable luminescence. <i>Materials Research Bulletin</i> , 2021 , 142, 111381	5.1	4
6	Energy transfer dynamics in thermally stable single-phase LiMgBO3:Tm3+/Dy3+ phosphor for UV triggered white light-emitting devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 271, 115306	3.1	3
5	Inside Cover: Multifunctional Uniform Nanoparticles Composed of a Magnetite Nanocrystal Core and a Mesoporous Silica Shell for Magnetic Resonance and Fluorescence Imaging and for Drug Delivery (Angew. Chem. Int. Ed. 44/2008). <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8322-8322	16.4	2
4	Innentitelbild: Multifunctional Uniform Nanoparticles Composed of a Magnetite Nanocrystal Core and a Mesoporous Silica Shell for Magnetic Resonance and Fluorescence Imaging and for Drug Delivery (Angew. Chem. 44/2008). <i>Angewandte Chemie</i> , 2008 , 120, 8446-8446	3.6	2
3	In Vivo Sol-Gel Reaction of Tantalum Alkoxide for Endovascular Embolization. <i>Advanced Healthcare Materials</i> , 2021 , e2101908	10.1	2
2	Strategically Manipulated Polymer Solar Cells to Incorporate Plasmonically Enhanced Spectral Upconversion Backplane. <i>Advanced Optical Materials</i> , 2020 , 8, 2000466	8.1	2
1	Antigen-Capturing Mesoporous Silica Nanoparticles Enhance the Radiation-Induced Abscopal Effect in Murine Hepatocellular Carcinoma Hepa1-6 Models. <i>Pharmaceutics</i> , 2021 , 13,	6.4	1