

Nohyun Lee

List of Publications by Year in descending order

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63
papers

14,547
citations

46918

47
h-index

110170

64
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66
all docs

66
docs citations

66
times ranked

19332
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 8438-8441.	7.2	1,135
2	Designed synthesis of uniformly sized iron oxide nanoparticles for efficient magnetic resonance imaging contrast agents. <i>Chemical Society Reviews</i> , 2012, 41, 2575-2589.	18.7	865
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	Iron Oxide Based Nanoparticles for Multimodal Imaging and Magnetoresponse Therapy. <i>Chemical Reviews</i> , 2015, 115, 10637-10689.	23.0	827
5	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, 552-557.	6.6	687
6	Multifunctional Mesoporous Silica Nanocomposite Nanoparticles for Theranostic Applications. <i>Accounts of Chemical Research</i> , 2011, 44, 893-902.	7.6	676
7	A Review on Biosensors and Recent Development of Nanostructured Materials-Enabled Biosensors. <i>Sensors</i> , 2021, 21, 1109.	2.1	672
8	Continuous O_2 -Evolving $MnFe_2O_4$ Nanoparticle-Anchored Mesoporous Silica Nanoparticles for Efficient Photodynamic Therapy in Hypoxic Cancer. <i>Journal of the American Chemical Society</i> , 2017, 139, 10992-10995.	6.6	616
9	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
10	Nano-Sized CT Contrast Agents. <i>Advanced Materials</i> , 2013, 25, 2641-2660.	11.1	522
11	Mesoporous Silica-Coated Hollow Manganese Oxide Nanoparticles as Positive T_1 Contrast Agents for Labeling and MRI Tracking of Adipose-Derived Mesenchymal Stem Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2955-2961.	6.6	491
12	Synthesis of Uniform Ferrimagnetic Magnetite Nanocubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 454-455.	6.6	434
13	Chemical Synthesis and Assembly of Uniformly Sized Iron Oxide Nanoparticles for Medical Applications. <i>Accounts of Chemical Research</i> , 2015, 48, 1276-1285.	7.6	428
14	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, 10658-10659.	6.6	425
15	Theranostic Probe Based on Lanthanide-Doped Nanoparticles for Simultaneous In Vivo Dual-Modal Imaging and Photodynamic Therapy. <i>Advanced Materials</i> , 2012, 24, 5755-5761.	11.1	367
16	Self-Assembled Fe_3O_4 Nanoparticle Clusters as High-Performance Anodes for Lithium Ion Batteries via Geometric Confinement. <i>Nano Letters</i> , 2013, 13, 4249-4256.	4.5	334
17	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.	7.3	325
18	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, 5508-5515.	6.6	316

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19	Chitosan Oligosaccharide-Stabilized Ferrimagnetic Iron Oxide Nanocubes for Magnetically Modulated Cancer Hyperthermia. <i>ACS Nano</i> , 2012, 6, 5266-5273.	7.3	286
20	Water-Dispersible Ferrimagnetic Iron Oxide Nanocubes with Extremely High r_2 Relaxivity for Highly Sensitive in Vivo MRI of Tumors. <i>Nano Letters</i> , 2012, 12, 3127-3131.	4.5	269
21	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. <i>Nature Materials</i> , 2013, 12, 359-366.	13.3	240
22	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, 10309-10312.	6.6	219
23	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. <i>ACS Nano</i> , 2015, 9, 5937-5946.	7.3	203
24	Synthesis, Characterization, and Self-Assembly of Pencil-Shaped CoO Nanorods. <i>Journal of the American Chemical Society</i> , 2006, 128, 9753-9760.	6.6	201
25	Recent Development of Inorganic Nanoparticles for Biomedical Imaging. <i>ACS Central Science</i> , 2018, 4, 324-336.	5.3	196
26	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, 2662-2667.	3.3	183
27	Electromechanical cardioplasty using a wrapped elasto-conductive epicardial mesh. <i>Science Translational Medicine</i> , 2016, 8, 344ra86.	5.8	181
28	Iron oxide nanoclusters for T1 magnetic resonance imaging of non-human primates. <i>Nature Biomedical Engineering</i> , 2017, 1, 637-643.	11.6	151
29	Magnetic Nanocomposite Spheres Decorated with NiO Nanoparticles for a Magnetically Recyclable Protein Separation System. <i>Advanced Materials</i> , 2010, 22, 57-60.	11.1	147
30	Large-Scale Synthesis of Hexagonal Pyramid-Shaped ZnO Nanocrystals from Thermolysis of Zn ²⁺ Oleate Complex. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14792-14794.	1.2	128
31	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, 2805-2819.	7.3	122
32	Enhanced Chemodynamic Therapy by Cu ²⁺ /Fe Peroxide Nanoparticles: Tumor Microenvironment-Mediated Synergistic Fenton Reaction. <i>ACS Nano</i> , 2022, 16, 2535-2545.	7.3	120
33	Enhancement of neurite outgrowth in PC12 cells by iron oxide nanoparticles. <i>Biomaterials</i> , 2011, 32, 2871-2877.	5.7	111
34	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.	7.8	95
35	Large-Scale Synthesis of Ultrathin Manganese Oxide Nanoplates and Their Applications to T1 MRI Contrast Agents. <i>Chemistry of Materials</i> , 2011, 23, 3318-3324.	3.2	92
36	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.	6.6	88

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37	Epitaxially Strained CeO ₂ /Mn ₃ O ₄ Nanocrystals as an Enhanced Antioxidant for Radioprotection. <i>Advanced Materials</i> , 2020, 32, e2001566.	11.1	79
38	Multifunctional mesoporous silica nanocomposite nanoparticles for pH controlled drug release and dual modal imaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 16869.	6.7	78
39	Recent development of nanoparticles for molecular imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20170022.	1.6	74
40	Synthesis of Uniformly Sized Manganese Oxide Nanocrystals with Various Sizes and Shapes and Characterization of Their ¹ T ₁ Magnetic Resonance Relaxivity. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2148-2155.	1.0	71
41	<i>In vitro</i> study on apoptotic cell death by effective magnetic hyperthermia with chitosan-coated MnFe ₂ O ₄ . <i>Nanotechnology</i> , 2016, 27, 115101.	1.3	71
42	Recent Advances in Inorganic Nanoparticle-Based NIR Luminescence Imaging: Semiconductor Nanoparticles and Lanthanide Nanoparticles. <i>Bioconjugate Chemistry</i> , 2017, 28, 115-123.	1.8	69
43	Multifunctional nanoparticles as a tissue adhesive and an injectable marker for image-guided procedures. <i>Nature Communications</i> , 2017, 8, 15807.	5.8	67
44	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.	2.4	64
45	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.	6.7	49
46	Fucoidan-Manganese Dioxide Nanoparticles Potentiate Radiation Therapy by Co-Targeting Tumor Hypoxia and Angiogenesis. <i>Marine Drugs</i> , 2018, 16, 510.	2.2	47
47	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.	5.8	40
48	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
49	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, 3658.	1.8	19
50	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.	2.3	17
51	Shape-Controlled Synthesis of Au Nanostructures Using EDTA Tetrasodium Salt and Their Photothermal Therapy Applications. <i>Nanomaterials</i> , 2018, 8, 252.	1.9	15
52	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.	1.1	14
53	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, 2637.	1.8	14
54	KGaP ₂ O ₇ :Mn ⁴⁺ deep red emitting phosphor: Synthesis, structure, concentration and temperature dependent photoluminescence characteristics. <i>Journal of Luminescence</i> , 2019, 214, 116565.	1.5	12

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55	Energy transfer dynamics in thermally stable single-phase LiMgBO ₃ :Tm ³⁺ /Dy ³⁺ phosphor for UV triggered white light-emitting devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 271, 115306.	1.7	9
56	Antigen-Capturing Mesoporous Silica Nanoparticles Enhance the Radiation-Induced Apoptotic Effect in Murine Hepatocellular Carcinoma Hepa1-6 Models. <i>Pharmaceutics</i> , 2021, 13, 1811.	2.0	8
57	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
58	Dy ³⁺ /Pr ³⁺ co-doped fluoro-borosilicate glasses: Energy transfer induced color-tunable luminescence. <i>Materials Research Bulletin</i> , 2021, 142, 111381.	2.7	6
59	Strategically Manipulated Polymer Solar Cells to Incorporate Plasmonically Enhanced Spectral Upconversion Backplane. <i>Advanced Optical Materials</i> , 2020, 8, 2000466.	3.6	5
60	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 (<i>Angew. Chem. Int. Ed.</i> 44/2008). <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8322-8322.	7.2	4
61	In Vivo Sol-Gel Reaction of Tantalum Alkoxide for Endovascular Embolization. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101908.	3.9	3
62	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 (<i>Angew. Chem.</i> 44/2008). <i>Angewandte Chemie</i> , 2008, 120, 8446-8446.	1.6	2
63	Designed synthesis and assembly of uniform-sized iron oxide nanoparticles for multifunctional medical applications. , 2011, , .		0