

Gang-Ho Lee

List of Publications by Year in Descending Order

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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.

80
papers

2,112
citations

23
h-index

45
g-index

84
ext. papers

2,340
ext. citations

4.2
avg, IF

4.46
L-index

#	Paper	IF	Citations
80	Gadolinium Neutron Capture Therapy (GdNCT) Agents from Molecular to Nano: Current Status and Perspectives.. <i>ACS Omega</i> , 2022 , 7, 2533-2553	3.9	2
79	Glioblastoma-Derived Exosomes as Nanopharmaceuticals for Improved Glioma Treatment. <i>Pharmaceutics</i> , 2022 , 14, 1002	6.4	1
78	Functionalized Lanthanide Oxide Nanoparticles for Tumor Targeting, Medical Imaging, and Therapy. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
77	In Vivo Positive Magnetic Resonance Imaging of Brain Cancer (U87MG) Using Folic Acid-Conjugated Polyacrylic Acid-Coated Ultrasmall Manganese Oxide Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2596	2.6	1
76	Synthesis, Characterizations, and 9.4 Tesla T MR Images of Polyacrylic Acid-Coated Terbium(III) and Holmium(III) Oxide Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
75	Synthesis, Biocompatibility, and Relaxometric Properties of Heavily Loaded Apoferritin with D-Glucuronic Acid-Coated Ultrasmall Gd ₂ O ₃ Nanoparticles. <i>BioNanoScience</i> , 2021 , 11, 380-389	3.4	
74	Chitosan Oligosaccharide Lactate-Coated Ultrasmall Gadolinium Oxide Nanoparticles: Synthesis, Cytotoxicity, and Relaxometric Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 4145-4150	1.3	1
73	Synthesis, Characterization, and Anticancer Activity of Benzothiazole Aniline Derivatives and Their Platinum (II) Complexes as New Chemotherapy Agents. <i>Pharmaceutics</i> , 2021 , 14,	5.2	5
72	Polyaspartic Acid-Coated Paramagnetic Gadolinium Oxide Nanoparticles as a Dual-Modal T1 and T2 Magnetic Resonance Imaging Contrast Agent. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8222	2.6	2
71	Recent Advances in Gadolinium Based Contrast Agents for Bioimaging Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	9
70	Magnetic separation of nucleic acids from various biological samples using silica-coated iron oxide nanobeads. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	0
69	D-Glucuronic Acid-Coated Ultrasmall BiO ₂ Nanoparticles for CT Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 4638-4642	1.3	1
68	Gadolinium-Based Neuroprognostic Magnetic Resonance Imaging Agents Suppress COX-2 for Prevention of Reperfusion Injury after Stroke. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 6909-6923	8.3	3
67	In Vivo Positive Magnetic Resonance Imaging Applications of Poly(methyl vinyl ether-alt-maleic acid)-coated Ultra-small Paramagnetic Gadolinium Oxide Nanoparticles. <i>Molecules</i> , 2020 , 25,	4.8	14
66	Highly brain-permeable apoferritin nanocage with high dysprosium loading capacity as a new T contrast agent for ultra-high field magnetic resonance imaging. <i>Biomaterials</i> , 2020 , 243, 119939	15.6	8
65	Ultrasmall Europium, Gadolinium, and Dysprosium Oxide Nanoparticles: Polyol Synthesis, Properties, and Biomedical Imaging Applications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2020 , 20, 1767-1780	3.2	4
64	Hydrophilic Biocompatible Poly(Acrylic Acid-co-Maleic Acid) Polymer as a Surface-Coating Ligand of Ultrasmall GdO Nanoparticles to Obtain a High r Value and T MR Images. <i>Diagnostics</i> , 2020 , 11,	3.8	7

63	neutron capture therapy of cancer using ultrasmall gadolinium oxide nanoparticles with cancer-targeting ability.. <i>RSC Advances</i> , 2020 , 10, 865-874	3.7	14
62	Carbon-coated ultrasmall gadolinium oxide (Gd ₂ O ₃ @C) nanoparticles: Application to magnetic resonance imaging and fluorescence properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 586, 124261	5.1	16
61	Multifunctional imaging of amyloid-beta peptides with a new gadolinium-based contrast agent in Alzheimer's disease. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 83, 214-223	6.3	6
60	New Class of Efficient T ₁ Magnetic Resonance Imaging Contrast Agent: Carbon-Coated Paramagnetic Dysprosium Oxide Nanoparticles. <i>Pharmaceuticals</i> , 2020 , 13,	5.2	3
59	A Novel Paramagnetic Nanoparticle T ₂ Magnetic Resonance Imaging Contrast Agent With High Colloidal Stability: Polyacrylic Acid-Coated Ultrafine Dysprosium Oxide Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2020 , 41, 829-836	1.2	4
58	Synthesis, characterization, and X-ray attenuation properties of polyacrylic acid-coated ultrasmall heavy metal oxide (Bi ₂ O ₃ , Yb ₂ O ₃ , NaTaO ₃ , Dy ₂ O ₃ , and Gd ₂ O ₃) nanoparticles as potential CT contrast agents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 576, 73-81	5.1	11
57	X-ray Attenuation Properties of Ultrasmall Yb ₂ O ₃ Nanoparticles as a High-Performance CT Contrast Agent. <i>Journal of the Korean Physical Society</i> , 2019 , 74, 286-291	0.6	3
56	d-Glucuronic Acid-Coated Ultrasmall Paramagnetic Ln ₂ O ₃ (Ln = Tb, Dy, and Ho) Nanoparticles: Magnetic Properties, Water Proton Relaxivities, and Fluorescence Properties. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 3832-3839	2.3	11
55	Size-controlled one-pot polyol synthesis and characterization of D-glucuronic acid-coated ultrasmall BiOI nanoparticles as potential x-ray contrast agent. <i>Materials Research Express</i> , 2019 , 6, 015039	1.7	0
54	Synthesis, MR Relaxivities, and In Vitro Cytotoxicity of 3,5-Diiodo-L-tyrosine-Coated Gd ₂ O ₃ Nanoparticles. <i>BioNanoScience</i> , 2019 , 9, 179-185	3.4	
53	Ultrasmall Gd ₂ O ₃ nanoparticles surface-coated by polyacrylic acid (PAA) and their PAA-size dependent relaxometric properties. <i>Applied Surface Science</i> , 2019 , 477, 111-115	6.7	11
52	Synthesis, Characterization, and Enhanced Cancer-Imaging Application of Trans-activator of Transcription Peptide-conjugated Ultrasmall Gadolinium Oxide Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2018 , 39, 435-441	1.2	4
51	Facile synthesis of stable colloidal suspension of amorphous carbon nanoparticles in aqueous medium and their characterization. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 120, 96-103	3.9	3
50	Magnetic resonance imaging, gadolinium neutron capture therapy, and tumor cell detection using ultrasmall GdO nanoparticles coated with polyacrylic acid-rhodamine B as a multifunctional tumor theragnostic agent.. <i>RSC Advances</i> , 2018 , 8, 12653-12665	3.7	15
49	Cyclic RGD-Coated Ultrasmall Gd ₂ O ₃ Nanoparticles as Tumor-Targeting Positive Magnetic Resonance Imaging Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 3070-3079	2.3	9
48	Gadolinium as an MRI contrast agent. <i>Future Medicinal Chemistry</i> , 2018 , 10, 639-661	4.1	30
47	Stable and non-toxic ultrasmall gadolinium oxide nanoparticle colloids (coating material = polyacrylic acid) as high-performance magnetic resonance imaging contrast agents.. <i>RSC Advances</i> , 2018 , 8, 3189-3197	3.7	19
46	Relaxometric, Optical and Cell Viability Properties of D-Glucuronic Acid Coated CrO ₂ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6333-6338	1.3	0

45	Longitudinal Water Proton Relaxivity and In Vivo T ₁ MR Images of Mixed Zn(II)/Gd(III) Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 2423-430	1.3	1
44	Gadolinium Complex of 1,4,7,10-Tetraazacyclododecane-1,4,7-trisacetic Acid (DO3A)-Ethoxybenzyl (EOB) Conjugate as a New Macrocyclic Hepatobiliary MRI Contrast Agent. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 4861-4868	8.3	16
43	Production of nearly monodisperse Fe ₃ O ₄ and Fe@Fe ₃ O ₄ nanoparticles in aqueous medium and their surface modification for biomedical applications. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750014	1.1	2
42	Application of Dye-coated Ultrasmall Gadolinium Oxide Nanoparticles for Biomedical Dual Imaging. <i>Bulletin of the Korean Chemical Society</i> , 2017 , 38, 1058-1068	1.2	3
41	Biomedical Applications of Lanthanide Oxide Nanoparticles. <i>Journal of Biomaterials and Tissue Engineering</i> , 2017 , 7, 757-769	0.3	8
40	Dextran-Coated Ultrasmall Gd ₂ O ₃ Nanoparticles as Potential T ₁ MRI Contrast Agent. <i>ChemistrySelect</i> , 2016 , 1, 6086-6091	1.8	5
39	Gadolinium agents for theragnosis of malignant tumors. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2016 , 5, 167-170	1.3	6
38	Ligand-size and ligand-chain hydrophilicity effects on the relaxometric properties of ultrasmall Gd ₂ O ₃ nanoparticles. <i>AIP Advances</i> , 2016 , 6, 065114	1.5	9
37	Non-Specific Zn ²⁺ Ion Sensing Using Ultrasmall Gadolinium Oxide Nanoparticle as a Magnetic Resonance Imaging Contrast Agent. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 2433-7	1.3	3
36	Fluorescent Brightener 28-Coated Fe ₃ O ₄ Nanoparticles: Synthesis, Characterization, and Fluorescent Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 10986-10990	1.3	2
35	Gadolinium Nanoparticles Conjugated with Therapeutic Bifunctional Chelate as a Potential T ₁ Theranostic Magnetic Resonance Imaging Agent. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 894-908	1.4	6
34	Magnetic properties, water proton relaxivities, and in-vivo MR images of paramagnetic nanoparticles. <i>Journal of the Korean Physical Society</i> , 2015 , 67, 44-51	0.6	3
33	Dual-mode T ₁ and T ₂ magnetic resonance imaging contrast agent based on ultrasmall mixed gadolinium-dysprosium oxide nanoparticles: synthesis, characterization, and in vivo application. <i>Nanotechnology</i> , 2015 , 26, 365102	3.4	55
32	Potential dual imaging nanoparticle: Gd ₂ O ₃ nanoparticle. <i>Scientific Reports</i> , 2015 , 5, 8549	4.9	98
31	Various ligand-coated ultrasmall gadolinium-oxide nanoparticles: Water proton relaxivity and in-vivo T ₁ MR image. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 1295-1302	0.6	5
30	Synthesis of nanoparticle CT contrast agents: and studies. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 055003	7.1	13
29	Synthesis and Structure-Activity Relationships of Gadolinium Complexes of DO3A-Benzothiazole Conjugates as Potential Theranostic Agents. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 599-604	2.3	3
28	Ligand-size dependent water proton relaxivities in ultrasmall gadolinium oxide nanoparticles and in vivo T ₁ MR images in a 1.5 T MR field. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19866-73	3.6	29

27	Water-soluble d-glucuronic acid coated ultrasmall mixed Ln/Mn (Ln = Gd and Dy) oxide nanoparticles and their application to magnetic resonance imaging. <i>Biomaterials Science</i> , 2014 , 2, 1287-1295	7.4	10
26	Bovine serum albumin (BSA) and cleaved-BSA conjugated ultrasmall Gd ₂ O ₃ nanoparticles: Synthesis, characterization, and application to MRI contrast agents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 450, 67-75	5.1	24
25	Potential perpendicular magnetic recording material: Supported and unsupported vertically-grown ferromagnetic iron nanowire arrays. <i>Journal of the Korean Physical Society</i> , 2014 , 65, 717-721	0.6	1
24	Gadolinium complex of DO3A-benzothiazole aniline (BTA) conjugate as a theranostic agent. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 8104-11	8.3	33
23	D-Glucuronic Acid Coated Gd(III) Nanomaterial as a Potential T1 MRI-CT Dual Contrast Agent. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 2858-2866	2.3	20
22	Gd(III) doping effect on magnetization and water proton relaxivities in ultra small iron oxide nanoparticles. <i>AIP Advances</i> , 2013 , 3, 072101	1.5	3
21	Surface coated Eu(OH) ₃ nanorods: a facile synthesis, characterization, MR relaxivities and in vitro cytotoxicity. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 7214-9	1.3	8
20	Gadolinium oxide nanoparticles as potential multimodal imaging and therapeutic agents. <i>Current Topics in Medicinal Chemistry</i> , 2013 , 13, 422-33	3	55
19	Paramagnetic dysprosium oxide nanoparticles and dysprosium hydroxide nanorods as T1 MRI contrast agents. <i>Biomaterials</i> , 2012 , 33, 3254-61	15.6	76
18	A T1, T2 magnetic resonance imaging (MRI)-fluorescent imaging (FI) by using ultrasmall mixed gadolinium-europium oxide nanoparticles. <i>New Journal of Chemistry</i> , 2012 , 36, 2361	3.6	30
17	Fluorescein-polyethyleneimine coated gadolinium oxide nanoparticles as T1 magnetic resonance imaging (MRI)-cell labeling (CL) dual agents. <i>RSC Advances</i> , 2012 , 2, 10907	3.7	36
16	Gd Complexes of DO3A-(Biphenyl-2,2'-bisamides) Conjugates as MRI Blood-Pool Contrast Agents. <i>ACS Medicinal Chemistry Letters</i> , 2012 , 3, 1003-7	4.3	23
15	Paramagnetic nanoparticle T1 and T2 MRI contrast agents. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12687-700	3.6	118
14	Blood-Pool and Targeting MRI Contrast Agents: From Gd-Chelates to Gd-Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 1924-1933	2.3	41
13	Water-soluble ultrasmall Eu ₂ O ₃ nanoparticles as a fluorescent imaging agent: In vitro and in vivo studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 394, 85-91	5.1	25
12	Gd complexes of macrocyclic diethylenetriaminepentaacetic acid (DTPA) biphenyl-2,2'-bisamides as strong blood-pool magnetic resonance imaging contrast agents. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 5385-94	8.3	35
11	Gd-complexes of 1,4,7,10-tetraazacyclododecane-N,N',N'',N'''-1,4,7,10-tetraacetic acid (DOTA) conjugates of tranexamates as a new class of blood-pool magnetic resonance imaging contrast agents. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 143-52	8.3	21
10	A facile synthesis, in vitro and in vivo MR studies of d-glucuronic acid-coated ultrasmall Ln ³⁺ (Ln = Eu, Gd, Dy, Ho, and Er) nanoparticles as a new potential MRI contrast agent. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3325-34	9.5	113

9	Water-soluble MnO nanocolloid for a molecular T1 MR imaging: a facile one-pot synthesis, in vivo T1 MR images, and account for relaxivities. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2949-55	9.5	81
8	Water-Soluble Ultra-Small Manganese Oxide Surface Doped Gadolinium Oxide (Gd ₂ O ₃ @MnO) Nanoparticles for MRI Contrast Agent. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4555-4560	2.3	37
7	Synthesis and characterization of poly(3-octylthiophene)/single wall carbon nanotube composites for photovoltaic applications. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	3
6	Water-Soluble Ultra Small Paramagnetic or Superparamagnetic Metal Oxide Nanoparticles for Molecular MR Imaging. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 2477-2481	2.3	45
5	Amino acid functionalized magnetite nanoparticles in saline solution. <i>Current Applied Physics</i> , 2009 , 9, S32-S34	2.6	45
4	Paramagnetic ultrasmall gadolinium oxide nanoparticles as advanced T1 MRI contrast agent: account for large longitudinal relaxivity, optimal particle diameter, and in vivo T1 MR images. <i>ACS Nano</i> , 2009 , 3, 3663-9	16.7	419
3	Poly(d,l-lactide-co-glycolide) coated superparamagnetic iron oxide nanoparticles: Synthesis, characterization and in vivo study as MRI contrast agent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 91-94	5.1	68
2	Surface modification of magnetite nanoparticles using lactobionic acid and their interaction with hepatocytes. <i>Biomaterials</i> , 2007 , 28, 710-6	15.6	127
1	Vertically Aligned Carbon Nanotubes Grown by Pyrolysis of Iron, Cobalt, and Nickel Phthalocyanines. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9249-9255	3.4	123