Gang-Ho Lee

List of Publications by Citations

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	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. *ACS Nano*, **2009**, 3, 3663-9	16.7	419
79	Surface modification of magnetite nanoparticles using lactobionic acid and their interaction with hepatocytes. *Biomaterials*, **2007**, 28, 710-6	15.6	127
78	Vertically Aligned Carbon Nanotubes Grown by Pyrolysis of Iron, Cobalt, and Nickel Phthalocyanines. *Journal of Physical Chemistry B*, **2003**, 107, 9249-9255	3.4	123
77	Paramagnetic nanoparticle T1 and T2 MRI contrast agents. *Physical Chemistry Chemical Physics*, **2012**, 14, 12687-700	3.6	118
76	A facile synthesis, in vitro and in vivo MR studies of d-glucuronic acid-coated ultrasmall LnO (Ln = Eu, Gd, Dy, Ho, and Er) nanoparticles as a new potential MRI contrast agent. *ACS Applied Materials & Interfaces*, **2011**, 3, 3325-34	9.5	113
75	Potential dual imaging nanoparticle: Gd2O3 nanoparticle. *Scientific Reports*, **2015**, 5, 8549	4.9	98
74	Water-soluble MnO nanocolloid for a molecular T1 MR imaging: a facile one-pot synthesis, in vivo T1 MR images, and account for relaxivities. *ACS Applied Materials & Interfaces*, **2010**, 2, 2949-55	9.5	81
73	Paramagnetic dysprosium oxide nanoparticles and dysprosium hydroxide nanorods as T MRI contrast agents. *Biomaterials*, **2012**, 33, 3254-61	15.6	76
72	Poly(d,l-lactide-co-glycolide) coated superparamagnetic iron oxide nanoparticles: Synthesis, characterization and in vivo study as MRI contrast agent. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 313-314, 91-94	5.1	68
71	Dual-mode T1 and T2 magnetic resonance imaging contrast agent based on ultrasmall mixed gadolinium-dysprosium oxide nanoparticles: synthesis, characterization, and in vivo application. *Nanotechnology*, **2015**, 26, 365102	3.4	55
70	Gadolinium oxide nanoparticles as potential multimodal imaging and therapeutic agents. *Current Topics in Medicinal Chemistry*, **2013**, 13, 422-33	3	55
69	Water-Soluble Ultra Small Paramagnetic or Superparamagnetic Metal Oxide Nanoparticles for Molecular MR Imaging. *European Journal of Inorganic Chemistry*, **2009**, 2009, 2477-2481	2.3	45
68	Amino acid functionalized magnetite nanoparticles in saline solution. *Current Applied Physics*, **2009**, 9, S32-S34	2.6	45
67	Blood-Pool and Targeting MRI Contrast Agents: From Gd-Chelates to Gd-Nanoparticles. *European Journal of Inorganic Chemistry*, **2012**, 2012, 1924-1933	2.3	41
66	Water-Soluble Ultra-Small Manganese Oxide Surface Doped Gadolinium Oxide (Gd2O3@MnO) Nanoparticles for MRI Contrast Agent. *European Journal of Inorganic Chemistry*, **2010**, 2010, 4555-4560	2.3	37
65	Fluorescein-polyethyleneimine coated gadolinium oxide nanoparticles as T1 magnetic resonance imaging (MRI) ell labeling (CL) dual agents. *RSC Advances*, **2012**, 2, 10907	3.7	36
64	Gd complexes of macrocyclic diethylenetriaminepentaacetic acid (DTPA) biphenyl-2,2'-bisamides as strong blood-pool magnetic resonance imaging contrast agents. *Journal of Medicinal Chemistry*, **2011**, 54, 5385-94	8.3	35

63	Gadolinium complex of DO3A-benzothiazole aniline (BTA) conjugate as a theranostic agent. *Journal of Medicinal Chemistry*, **2013**, 56, 8104-11	8.3	33
62	Gadolinium as an MRI contrast agent. *Future Medicinal Chemistry*, **2018**, 10, 639-661	4.1	30
61	A T1, T2 magnetic resonance imaging (MRI)-fluorescent imaging (FI) by using ultrasmall mixed gadolinium□europium oxide nanoparticles. *New Journal of Chemistry*, **2012**, 36, 2361	3.6	30
60	Ligand-size dependent water proton relaxivities in ultrasmall gadolinium oxide nanoparticles and in vivo T1 MR images in a 1.5 T MR field. *Physical Chemistry Chemical Physics*, **2014**, 16, 19866-73	3.6	29
59	Water-soluble ultrasmall Eu2O3 nanoparticles as a fluorescent imaging agent: In vitro and in vivo studies. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 394, 85-91	5.1	25
58	Bovine serum albumin (BSA) and cleaved-BSA conjugated ultrasmall Gd2O3 nanoparticles: Synthesis, characterization, and application to MRI contrast agents. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 450, 67-75	5.1	24
57	Gd Complexes of DO3A-(Biphenyl-2,2'-bisamides) Conjugates as MRI Blood-Pool Contrast Agents. *ACS Medicinal Chemistry Letters*, **2012**, 3, 1003-7	4.3	23
56	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. *Journal of Medicinal Chemistry*, **2011**, 54, 143-52	8.3	21
55	D-Glucuronic Acid Coated Gd(IO3)3□2H2O Nanomaterial as a Potential T1 MRI-CT Dual Contrast Agent. *European Journal of Inorganic Chemistry*, **2013**, 2013, 2858-2866	2.3	20
54	Stable and non-toxic ultrasmall gadolinium oxide nanoparticle colloids (coating material = polyacrylic acid) as high-performance magnetic resonance imaging contrast agents.. *RSC Advances*, **2018**, 8, 3189-3197	3.7	19
53	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. *Journal of Medicinal Chemistry*, **2017**, 60, 4861-4868	8.3	16
52	Carbon-coated ultrasmall gadolinium oxide (Gd2O3@C) nanoparticles: Application to magnetic resonance imaging and fluorescence properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 586, 124261	5.1	16
51	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.. *RSC Advances*, **2018**, 8, 12653-12665	3.7	15
50	In Vivo Positive Magnetic Resonance Imaging Applications of Poly(methyl vinyl ether-alt-maleic acid)-coated Ultra-small Paramagnetic Gadolinium Oxide Nanoparticles. *Molecules*, **2020**, 25,	4.8	14
49	neutron capture therapy of cancer using ultrasmall gadolinium oxide nanoparticles with cancer-targeting ability.. *RSC Advances*, **2020**, 10, 865-874	3.7	14
48	Synthesis of nanoparticle CT contrast agents: and studies. *Science and Technology of Advanced Materials*, **2015**, 16, 055003	7.1	13
47	Synthesis, characterization, and X-ray attenuation properties of polyacrylic acid-coated ultrasmall heavy metal oxide (Bi2O3, Yb2O3, NaTaO3, Dy2O3, and Gd2O3) nanoparticles as potential CT contrast agents. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 576, 73-81	5.1	11
46	d-Glucuronic Acid-Coated Ultrasmall Paramagnetic Ln2O3 (Ln = Tb, Dy, and Ho) Nanoparticles: Magnetic Properties, Water Proton Relaxivities, and Fluorescence Properties. *European Journal of Inorganic Chemistry*, **2019**, 2019, 3832-3839	2.3	11

45	Ultrasmall Gd2O3 nanoparticles surface-coated by polyacrylic acid (PAA) and their PAA-size dependent relaxometric properties. *Applied Surface Science*, **2019**, 477, 111-115	6.7	11
44	Water-soluble d-glucuronic acid coated ultrasmall mixed Ln/Mn (Ln = Gd and Dy) oxide nanoparticles and their application to magnetic resonance imaging. *Biomaterials Science*, **2014**, 2, 1287-1295	7.4	10
43	Cyclic RGD-Coated Ultrasmall Gd2O3 Nanoparticles as Tumor-Targeting Positive Magnetic Resonance Imaging Contrast Agents. *European Journal of Inorganic Chemistry*, **2018**, 2018, 3070-3079	2.3	9
42	Ligand-size and ligand-chain hydrophilicity effects on the relaxometric properties of ultrasmall Gd2O3 nanoparticles. *AIP Advances*, **2016**, 6, 065114	1.5	9
41	Recent Advances in Gadolinium Based Contrast Agents for Bioimaging Applications. *Nanomaterials*, **2021**, 11,	5.4	9
40	Highly brain-permeable apoferritin nanocage with high dysprosium loading capacity as a new T contrast agent for ultra-high field magnetic resonance imaging. *Biomaterials*, **2020**, 243, 119939	15.6	8
39	Surface coated Eu(OH)3 nanorods: a facile synthesis, characterization, MR relaxivities and in vitro cytotoxicity. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 7214-9	1.3	8
38	Biomedical Applications of Lanthanide Oxide Nanoparticles. *Journal of Biomaterials and Tissue Engineering*, **2017**, 7, 757-769	0.3	8
37	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. *Diagnostics*, **2020**, 11,	3.8	7
36	Gadolinium agents for theragnosis of malignant tumors. *Bioinspired, Biomimetic and Nanobiomaterials*, **2016**, 5, 167-170	1.3	6
35	Multifunctional imaging of amyloid-beta peptides with a new gadolinium-based contrast agent in Alzheimer's disease. *Journal of Industrial and Engineering Chemistry*, **2020**, 83, 214-223	6.3	6
34	Gadolinium Nanoparticles Conjugated with Therapeutic Bifunctional Chelate as a Potential T1 Theranostic Magnetic Resonance Imaging Agent. *Journal of Biomedical Nanotechnology*, **2016**, 12, 894-908	4	6
33	Dextran-Coated Ultrasmall Gd2O3 Nanoparticles as Potential T1 MRI Contrast Agent. *ChemistrySelect*, **2016**, 1, 6086-6091	1.8	5
32	Various ligand-coated ultrasmall gadolinium-oxide nanoparticles: Water proton relaxivity and in-vivo T1 MR image. *Journal of the Korean Physical Society*, **2015**, 66, 1295-1302	0.6	5
31	Synthesis, Characterization, and Anticancer Activity of Benzothiazole Aniline Derivatives and Their Platinum (II) Complexes as New Chemotherapy Agents. *Pharmaceuticals*, **2021**, 14,	5.2	5
30	Synthesis, Characterization, and Enhanced Cancer-Imaging Application of Trans-activator of Transcription Peptide-conjugated Ultrasmall Gadolinium Oxide Nanoparticles. *Bulletin of the Korean Chemical Society*, **2018**, 39, 435-441	1.2	4
29	Ultrasmall Europium, Gadolinium, and Dysprosium Oxide Nanoparticles: Polyol Synthesis, Properties, and Biomedical Imaging Applications. *Mini-Reviews in Medicinal Chemistry*, **2020**, 20, 1767-1780	3.2	4
28	A Novel Paramagnetic Nanoparticle T2 Magnetic Resonance Imaging Contrast Agent With High Colloidal Stability: Polyacrylic Acid-Coated Ultrafine Dysprosium Oxide Nanoparticles. *Bulletin of the Korean Chemical Society*, **2020**, 41, 829-836	1.2	4

27	Synthesis, Characterizations, and 9.4 Tesla T MR Images of Polyacrylic Acid-Coated Terbium(III) and Holmium(III) Oxide Nanoparticles. *Nanomaterials*, **2021**, 11,	5.4	4
26	X-ray Attenuation Properties of Ultrasmall Yb2O3 Nanoparticles as a High-Performance CT Contrast Agent. *Journal of the Korean Physical Society*, **2019**, 74, 286-291	0.6	3
25	Magnetic properties, water proton relaxivities, and in-vivo MR images of paramagnetic nanoparticles. *Journal of the Korean Physical Society*, **2015**, 67, 44-51	0.6	3
24	Gadolinium-Based Neuroprognostic Magnetic Resonance Imaging Agents Suppress COX-2 for Prevention of Reperfusion Injury after Stroke. *Journal of Medicinal Chemistry*, **2020**, 63, 6909-6923	8.3	3
23	Facile synthesis of stable colloidal suspension of amorphous carbon nanoparticles in aqueous medium and their characterization. *Journal of Physics and Chemistry of Solids*, **2018**, 120, 96-103	3.9	3
22	Non-Specific Zn2+ Ion Sensing Using Ultrasmall Gadolinium Oxide Nanoparticle as a Magnetic Resonance Imaging Contrast Agent. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 2433-7	1.3	3
21	Application of Dye-coated Ultrasmall Gadolinium Oxide Nanoparticles for Biomedical Dual Imaging. *Bulletin of the Korean Chemical Society*, **2017**, 38, 1058-1068	1.2	3
20	Synthesis and Structure–Activity Relationships of Gadolinium Complexes of DO3A–Benzothiazole Conjugates as Potential Theranostic Agents. *European Journal of Inorganic Chemistry*, **2015**, 2015, 599-604	2.3	3
19	Gd(III) doping effect on magnetization and water proton relaxivities in ultra small iron oxide nanoparticles. *AIP Advances*, **2013**, 3, 072101	1.5	3
18	Synthesis and characterization of poly(3-octylthiophene)/single wall carbon nanotube composites for photovoltaic applications. *Journal of Applied Polymer Science*, **2010**, 118, n/a-n/a	2.9	3
17	New Class of Efficient T Magnetic Resonance Imaging Contrast Agent: Carbon-Coated Paramagnetic Dysprosium Oxide Nanoparticles. *Pharmaceuticals*, **2020**, 13,	5.2	3
16	Production of nearly monodisperse Fe3O4 and Fe@Fe3O4 nanoparticles in aqueous medium and their surface modification for biomedical applications. *International Journal of Modern Physics B*, **2017**, 31, 1750014	1.1	2
15	Gadolinium Neutron Capture Therapy (GdNCT) Agents from Molecular to Nano: Current Status and Perspectives.. *ACS Omega*, **2022**, 7, 2533-2553	3.9	2
14	Functionalized Lanthanide Oxide Nanoparticles for Tumor Targeting, Medical Imaging, and Therapy. *Pharmaceutics*, **2021**, 13,	6.4	2
13	Fluorescent Brightener 28-Coated Fe3O4 Nanoparticles: Synthesis, Characterization, and Fluorescent Properties. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 10986-10990	1.3	2
12	Polyaspartic Acid-Coated Paramagnetic Gadolinium Oxide Nanoparticles as a Dual-Modal T1 and T2 Magnetic Resonance Imaging Contrast Agent. *Applied Sciences (Switzerland)*, **2021**, 11, 8222	2.6	2
11	Longitudinal Water Proton Relaxivity and In Vivo T MR Images of Mixed Zn(II)/Gd(III) Oxide Nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 2423-430	1.3	1
10	D-Glucuronic Acid-Coated Ultrasmall Bi Nanoparticles for CT Imaging. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4638-4642	1.3	1

9	Potential perpendicular magnetic recording material: Supported and unsupported vertically-grown ferromagnetic iron nanowire arrays. *Journal of the Korean Physical Society*, **2014**, 65, 717-721	0.6	1
8	In Vivo Positive Magnetic Resonance Imaging of Brain Cancer (U87MG) Using Folic Acid-Conjugated Polyacrylic Acid-Coated Ultrasmall Manganese Oxide Nanoparticles. *Applied Sciences (Switzerland)*, **2021**, 11, 2596	2.6	1
7	Chitosan Oligosaccharide Lactate-Coated Ultrasmall Gadolinium Oxide Nanoparticles: Synthesis, Cytotoxicity, and Relaxometric Properties. *Journal of Nanoscience and Nanotechnology*, **2021**, 21, 4145-4150	1.3	1
6	Glioblastoma-Derived Exosomes as Nanopharmaceutics for Improved Glioma Treatment. *Pharmaceutics*, **2022**, 14, 1002	6.4	1
5	Magnetic separation of nucleic acids from various biological samples using silica-coated iron oxide nanobeads. *Journal of Nanoparticle Research*, **2020**, 22, 1	2.3	0
4	Relaxometric, Optical and Cell Viability Properties of D-Glucuronic Acid Coated Cr□□ Nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 6333-6338	1.3	0
3	Size-controlled one-pot polyol synthesis and characterization of D-glucuronic acid-coated ultrasmall BiOI nanoparticles as potential x-ray contrast agent. *Materials Research Express*, **2019**, 6, 015039	1.7	0
2	Synthesis, MR Relaxivities, and In Vitro Cytotoxicity of 3,5-Diiodo-L-tyrosine-Coated Gd2O3 Nanoparticles. *BioNanoScience*, **2019**, 9, 179-185	3.4	
1	Synthesis, Biocompatibility, and Relaxometric Properties of Heavily Loaded Apoferritin with D-Glucuronic Acid-Coated Ultrasmall Gd2O3 Nanoparticles. *BioNanoScience*, **2021**, 11, 380-389	3.4	