

Gang-Ho Lee

List of Publications by Year in descending order

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84
papers

2,637
citations

236612

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84
docs citations

84
times ranked

3574
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Paramagnetic Ultrasmall Gadolinium Oxide Nanoparticles as Advanced T_1 MRI Contrast Agent: Account for Large Longitudinal Relaxivity, Optimal Particle Diameter, and In Vivo T_1 MR Images. ACS Nano, 2009, 3, 3663-3669. | 7.3 | 477 |
| 2 | Surface modification of magnetite nanoparticles using lactobionic acid and their interaction with hepatocytes. Biomaterials, 2007, 28, 710-716. | 5.7 | 138 |
| 3 | Paramagnetic nanoparticle T_1 and T_2 MRI contrast agents. Physical Chemistry Chemical Physics, 2012, 14, 12687. | 1.3 | 135 |
| 4 | Vertically Aligned Carbon Nanotubes Grown by Pyrolysis of Iron, Cobalt, and Nickel Phthalocyanines. Journal of Physical Chemistry B, 2003, 107, 9249-9255. | 1.2 | 133 |
| 5 | A Facile Synthesis, In vitro and In vivo MR Studies of $\text{Ln-Glucuronic Acid-Coated Ultrasmall Ln}_2\text{O}_3$ (Ln = Eu, Gd, Dy, Ho, and Er) Nanoparticles as a New Potential MRI Contrast Agent. ACS Applied Materials & Interfaces, 2011, 3, 3325-3334. | 4.0 | 133 |
| 6 | Potential dual imaging nanoparticle: Gd_2O_3 nanoparticle. Scientific Reports, 2015, 5, 8549. | 1.6 | 121 |
| 7 | Water-Soluble MnO Nanocolloid for a Molecular T_1 MR Imaging: A Facile One-Pot Synthesis, In vivo T_1 MR Images, and Account for Relaxivities. ACS Applied Materials & Interfaces, 2010, 2, 2949-2955. | 4.0 | 92 |
| 8 | Paramagnetic dysprosium oxide nanoparticles and dysprosium hydroxide nanorods as T_2 MRI contrast agents. Biomaterials, 2012, 33, 3254-3261. | 5.7 | 87 |
| 9 | Poly(<i>d,l</i> -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. | 2.3 | 77 |
| 10 | 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. Nanotechnology, 2015, 26, 365102. | 1.3 | 63 |
| 11 | Gadolinium Oxide Nanoparticles as Potential Multimodal Imaging and Therapeutic Agents. Current Topics in Medicinal Chemistry, 2013, 13, 422-433. | 1.0 | 60 |
| 12 | Blood Pool and Targeting MRI Contrast Agents: From Gd^{III} Chelates to Gd^{III} Nanoparticles. European Journal of Inorganic Chemistry, 2012, 2012, 1924-1933. | 1.0 | 52 |
| 13 | Amino acid functionalized magnetite nanoparticles in saline solution. Current Applied Physics, 2009, 9, S32-S34. | 1.1 | 50 |
| 14 | Water-Soluble Ultra Small Paramagnetic or Superparamagnetic Metal Oxide Nanoparticles for Molecular MR Imaging. European Journal of Inorganic Chemistry, 2009, 2009, 2477-2481. | 1.0 | 48 |
| 15 | Fluorescein-polyethyleneimine coated gadolinium oxide nanoparticles as T_1 magnetic resonance imaging (MRI) cell labeling (CL) dual agents. RSC Advances, 2012, 2, 10907. | 1.7 | 46 |
| 16 | Gadolinium as an MRI contrast agent. Future Medicinal Chemistry, 2018, 10, 639-661. | 1.1 | 44 |
| 17 | Recent Advances in Gadolinium Based Contrast Agents for Bioimaging Applications. Nanomaterials, 2021, 11, 2449. | 1.9 | 39 |
| 18 | Water-Soluble Ultra Small Manganese Oxide Surface Doped Gadolinium Oxide ($\text{Gd}_2\text{O}_3@ \text{MnO}$) Nanoparticles for MRI Contrast Agent. European Journal of Inorganic Chemistry, 2010, 2010, 4555-4560. | 1.0 | 38 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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, 5385-5394. | 2.9 | 37 |
| 20 | 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. | 1.4 | 34 |
| 21 | Gadolinium Complex of DO3A-benzothiazole Aniline (BTA) Conjugate as a Theranostic Agent. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 8104-8111. | 2.9 | 34 |
| 22 | Water-soluble ultrasmall Eu2O3 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. | 2.3 | 31 |
| 23 | Ligand-size dependent water proton relaxivities in ultrasmall gadolinium oxide nanoparticles and in vivo T1 MR images in a 1.5 T MR field. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19866-19873. | 1.3 | 31 |
| 24 | Hydrophilic Biocompatible Poly(Acrylic Acid-co-Maleic Acid) Polymer as a Surface-Coating Ligand of Ultrasmall Gd2O3 Nanoparticles to Obtain a High r1 Value and T1 MR Images. <i>Diagnostics</i> , 2021, 11, 2. | 1.3 | 28 |
| 25 | Stable and non-toxic ultrasmall gadolinium oxide nanoparticle colloids (coating material =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 agents. <i>RSC Advances</i> , 2018, 8, 3189-3197. | 1.7 | 27 |
| 26 | Bovine serum albumin (BSA) and cleaved-BSA conjugated ultrasmall Gd2O3 nanoparticles: Synthesis, characterization, and application to MRI contrast agents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 450, 67-75. | 2.3 | 26 |
| 27 | Gd Complexes of DO3A-(Biphenyl-2,2'-bisamides) Conjugates as MRI Blood-Pool Contrast Agents. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 1003-1007. | 1.3 | 25 |
| 28 | D-Glucuronic Acid Coated Gd(IO3)3·2H2O Nanomaterial as a Potential T1 MRI-CT Dual Contrast Agent. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2858-2866. | 1.0 | 24 |
| 29 | Gadolinium Neutron Capture Therapy (GdNCT) Agents from Molecular to Nano: Current Status and Perspectives. <i>ACS Omega</i> , 2022, 7, 2533-2553. | 1.6 | 24 |
| 30 | In Vivo Positive Magnetic Resonance Imaging Applications of Poly(methyl vinyl ether-alt-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 | 1.7 | 22 |
| 31 | Gd-Complexes of 1,4,7,10-Tetraazacyclododecane-N,N'-bis(2,2',2''-bis(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, 143-152. | 2.9 | 21 |
| 32 | Synthesis of nanoparticle CT contrast agents: in vitro and in vivo studies. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 055003. | 2.8 | 21 |
| 33 | 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. | 2.9 | 21 |
| 34 | In vivo neutron capture therapy of cancer using ultrasmall gadolinium oxide nanoparticles with cancer-targeting ability. <i>RSC Advances</i> , 2020, 10, 865-874. | 1.7 | 20 |
| 35 | Magnetic resonance imaging, gadolinium neutron capture therapy, and tumor cell detection using ultrasmall Gd2O3 nanoparticles coated with polyacrylic acid-rhodamine B as a multifunctional tumor theragnostic agent. <i>RSC Advances</i> , 2018, 8, 12653-12665. | 1.7 | 19 |
| 36 | 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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 576, 73-81. | 2.3 | 19 |

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|----|--|-----|-----------|
| 37 | 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. | 2.3 | 19 |
| 38 | 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. | 3.1 | 18 |
| 39 | Glioblastoma-Derived Exosomes as Nanopharmaceutics for Improved Glioma Treatment. <i>Pharmaceutics</i> , 2022, 14, 1002. | 2.0 | 17 |
| 40 | 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. | 1.0 | 16 |
| 41 | Cyclic RGD- ϵ -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. | 1.0 | 15 |
| 42 | Synthesis, Characterizations, and 9.4 Tesla T ₂ MR Images of Polyacrylic Acid-Coated Terbium(III) and Holmium(III) Oxide Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 1355. | 1.9 | 15 |
| 43 | Functionalized Lanthanide Oxide Nanoparticles for Tumor Targeting, Medical Imaging, and Therapy. <i>Pharmaceutics</i> , 2021, 13, 1890. | 2.0 | 13 |
| 44 | Ligand-size and ligand-chain hydrophilicity effects on the relaxometric properties of ultrasmall Gd ₂ O ₃ nanoparticles. <i>AIP Advances</i> , 2016, 6, . | 0.6 | 12 |
| 45 | 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. | 2.9 | 12 |
| 46 | Highly brain-permeable apoferritin nanocage with high dysprosium loading capacity as a new T ₂ contrast agent for ultra-high field magnetic resonance imaging. <i>Biomaterials</i> , 2020, 243, 119939. | 5.7 | 12 |
| 47 | Synthesis, Characterization, and Anticancer Activity of Benzothiazole Aniline Derivatives and Their Platinum (II) Complexes as New Chemotherapy Agents. <i>Pharmaceutics</i> , 2021, 14, 832. | 1.7 | 12 |
| 48 | Polyaspartic Acid-Coated Paramagnetic Gadolinium Oxide Nanoparticles as a Dual-Modal T ₁ and T ₂ Magnetic Resonance Imaging Contrast Agent. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8222. | 1.3 | 11 |
| 49 | Surface Coated Eu(OH) ₃ Nanorods: A Facile Synthesis, Characterization, MR Relaxivities and <i>In Vitro</i> Cytotoxicity. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7214-7219. | 0.9 | 10 |
| 50 | 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. | 2.6 | 10 |
| 51 | A Novel Paramagnetic Nanoparticle T ₂ Magnetic Resonance Imaging Contrast Agent With High Colloidal Stability: Polyacrylic Acid- ϵ -Coated Ultrafine Dysprosium Oxide Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 829-836. | 1.0 | 9 |
| 52 | 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. | 1.1 | 9 |
| 53 | Gadolinium agents for theragnosis of malignant tumors. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2016, 5, 167-170. | 0.7 | 8 |
| 54 | New Class of Efficient T ₂ Magnetic Resonance Imaging Contrast Agent: Carbon-Coated Paramagnetic Dysprosium Oxide Nanoparticles. <i>Pharmaceutics</i> , 2020, 13, 312. | 1.7 | 8 |

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|----|---|-----|-----------|
| 55 | Biomedical Applications of Lanthanide Oxide Nanoparticles. <i>Journal of Biomaterials and Tissue Engineering</i> , 2017, 7, 757-769. | 0.0 | 8 |
| 56 | Synthesis and characterization of poly(3- <i>hexylthiophene</i>)/single wall carbon nanotube composites for photovoltaic applications. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1386-1394. | 1.3 | 7 |
| 57 | Synthesis, Characterization, and Enhanced Cancer Imaging Application of Transactivator of Transcription Peptide-conjugated Ultrasmall Gadolinium Oxide Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 435-441. | 1.0 | 7 |
| 58 | 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. | 1.3 | 7 |
| 59 | Gadolinium Nanoparticles Conjugated with Therapeutic Bifunctional Chelate as a Potential T_1 Contrast Agent. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 894-908. | 0.5 | 6 |
| 60 | Dextran-Coated Ultrasmall Gd_2O_3 Nanoparticles as Potential T_1 MRI Contrast Agent. <i>ChemistrySelect</i> , 2016, 1, 6086-6091. | 0.7 | 6 |
| 61 | 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. | 0.3 | 5 |
| 62 | 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. | 1.0 | 5 |
| 63 | 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. | 0.3 | 5 |
| 64 | 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. | 1.9 | 5 |
| 65 | X-ray Attenuation Properties of Ultrasmall Yb_2O_3 Nanoparticles as a High-Performance CT Contrast Agent. <i>Journal of the Korean Physical Society</i> , 2019, 74, 286-291. | 0.3 | 5 |
| 66 | 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. | 2.9 | 5 |
| 67 | Gd(III) doping effect on magnetization and water proton relaxivities in ultra small iron oxide nanoparticles. <i>AIP Advances</i> , 2013, 3, . | 0.6 | 4 |
| 68 | 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, 2433-2437. | 0.9 | 4 |
| 69 | Magnetic separation of nucleic acids from various biological samples using silica-coated iron oxide nanobeads. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1. | 0.8 | 4 |
| 70 | D-Glucuronic Acid-Coated Ultrasmall Bi_2O_3 Nanoparticles for CT Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4638-4642. | 0.9 | 4 |
| 71 | Enhanced Tumor Imaging Using Glucosamine-Conjugated Polyacrylic Acid-Coated Ultrasmall Gadolinium Oxide Nanoparticles in Magnetic Resonance Imaging. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1792. | 1.8 | 4 |
| 72 | Mono and Multiple Tumor-Targeting Ligand-Coated Ultrasmall Gadolinium Oxide Nanoparticles: Enhanced Tumor Imaging and Blood Circulation. <i>Pharmaceutics</i> , 2022, 14, 1458. | 2.0 | 4 |

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| 73 | Application of Dye-Coated Ultrasmall Gadolinium Oxide Nanoparticles for Biomedical Dual Imaging. Bulletin of the Korean Chemical Society, 2017, 38, 1058-1068. | 1.0 | 3 |
| 74 | Polyethylenimine-Coated Ultrasmall Holmium Oxide Nanoparticles: Synthesis, Characterization, Cytotoxicities, and Water Proton Spin Relaxivities. Nanomaterials, 2022, 12, 1588. | 1.9 | 3 |
| 75 | Fluorescent Brightener 28-Coated Fe ₃ O ₄ Nanoparticles: Synthesis, Characterization, and Fluorescent Properties. Journal of Nanoscience and Nanotechnology, 2016, 16, 10986-10990. | 0.9 | 2 |
| 76 | 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. International Journal of Modern Physics B, 2017, 31, 1750014. | 1.0 | 2 |
| 77 | Relaxometric, Optical and Cell Viability Properties of D-Glucuronic Acid Coated Cr ₂ O ₃ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2018, 18, 6333-6338. | 0.9 | 2 |
| 78 | 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. | 0.8 | 2 |
| 79 | Chitosan Oligosaccharide Lactate-Coated Ultrasmall Gadolinium Oxide Nanoparticles: Synthesis, <i>In Vitro</i> Cytotoxicity, and Relaxometric Properties. Journal of Nanoscience and Nanotechnology, 2021, 21, 4145-4150. | 0.9 | 2 |
| 80 | Potential perpendicular magnetic recording material: Supported and unsupported vertically-grown ferromagnetic iron nanowire arrays. Journal of the Korean Physical Society, 2014, 65, 717-721. | 0.3 | 1 |
| 81 | Longitudinal Water Proton Relaxivity and <i>In Vivo</i> T ₁ MR Images of Mixed Zn(II)/Gd(III) Oxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2017, 17, 2423-2430. | 0.9 | 1 |
| 82 | Paramagnetic ultrasmall Ho ₂ O ₃ and Tm ₂ O ₃ nanoparticles: characterization of <i>r</i> ₂ values and <i>in vivo</i> T ₂ MR images at a 3.0 T MR field. Materials Advances, 2022, 3, 5857-5870. | 2.6 | 1 |
| 83 | Synthesis, MR Relaxivities, and <i>In Vitro</i> Cytotoxicity of 3,5-Diiodo-L-tyrosine-Coated Gd ₂ O ₃ Nanoparticles. BioNanoScience, 2019, 9, 179-185. | 1.5 | 0 |
| 84 | Synthesis, Biocompatibility, and Relaxometric Properties of Heavily Loaded Apoferritin with D-Glucuronic Acid-Coated Ultrasmall Gd ₂ O ₃ Nanoparticles. BioNanoScience, 2021, 11, 380-389. | 1.5 | 0 |