Sophie Laurent

List of Publications by Year
in descending order

225 papers	20,125 citations	36203 51 h-index	10708 138 g-index
232 all docs	232 docs citations	232 times ranked	25452 citing authors

#	Article	IF	Citations
1	Magnetic Iron Oxide Nanoparticles: Synthesis, Stabilization, Vectorization, Physicochemical Characterizations, and Biological Applications. Chemical Reviews, 2008, 108, 2064-2110.	23.0	5,815
2	Superparamagnetic iron oxide nanoparticles (SPIONs): Development, surface modification and applications in chemotherapy. Advanced Drug Delivery Reviews, 2011, 63, 24-46.	6.6	1,555
3	Proteinâ^'Nanoparticle Interactions: Opportunities and Challenges. Chemical Reviews, 2011, 111, 5610-5637.	23.0	1,242
4	Magnetic fluid hyperthermia: Focus on superparamagnetic iron oxide nanoparticles. Advances in Colloid and Interface Science, 2011, 166, 8-23.	7.0	1,125
5	Hybrid Gadolinium Oxide Nanoparticles:Â Multimodal Contrast Agents for in Vivo Imaging. Journal of the American Chemical Society, 2007, 129, 5076-5084.	6.6	721
6	Classification and basic properties of contrast agents for magnetic resonance imaging. Contrast Media and Molecular Imaging, 2009, 4, 1-23.	0.4	472
7	Magnetic Resonance Imaging Tracking of Stem Cells in Vivo Using Iron Oxide Nanoparticles as a Tool for the Advancement of Clinical Regenerative Medicine. Chemical Reviews, 2011, 111, 253-280.	23.0	385
8	Comparative study of the physicochemical properties of six clinical low molecular weight gadolinium contrast agents. Contrast Media and Molecular Imaging, 2006, 1, 128-137.	0.4	368
9	Magnetic iron oxide nanoparticles for drug delivery: applications and characteristics. Expert Opinion on Drug Delivery, 2019, 16, 69-78.	2.4	364
10	Superparamagnetic iron oxide nanoparticles for delivery of therapeutic agents: opportunities and challenges. Expert Opinion on Drug Delivery, 2014, 11, 1449-1470.	2.4	357
11	Toxicity Evaluations of Superparamagnetic Iron Oxide Nanoparticles: Cell â€œVisionâ€•versus Physicochemical Properties of Nanoparticles. ACS Nano, 2011, 5, 7263-7276.	7.3	317
12	Engineered nanoparticles for biomolecular imaging. Nanoscale, 2011, 3, 3007.	2.8	246
13	A Highâ€Performance Magnetic Resonance Imaging T₂ Contrast Agent. Advanced Materials, 2007, 19, 1874-1878.	11.1	226
14	Stability of MRI Paramagnetic Contrast Media. Investigative Radiology, 2001, 36, 115-122.	3.5	196
15	Therapeutic Benefits from Nanoparticles: The Potential Significance of Nanoscience in Diseases with Compromise to the Blood Brain Barrier. Chemical Reviews, 2013, 113, 1877-1903.	23.0	187
16	Synthesis, Functionalization, and Design of Magnetic Nanoparticles for Theranostic Applications. Advanced Healthcare Materials, 2017, 6, 1700306.	3.9	176
17	Efficient internalization of silica-coated iron oxide nanoparticles of different sizes by primary human macrophages and dendritic cells. Toxicology and Applied Pharmacology, 2011, 253, 81-93.	1.3	172
18	Magnetic iron oxide nanoparticles for biomedical applications. Future Medicinal Chemistry, 2010, 2, 427-449.	1.1	158

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19	Ultrasmall Rigid Particles as Multimodal Probes for Medical Applications. Angewandte Chemie - International Edition, 2011, 50, 12299-12303.	7.2	156
20	Crucial Ignored Parameters on Nanotoxicology: The Importance of Toxicity Assay Modifications and â€œCell Visionâ€• PLoS ONE, 2012, 7, e29997.	1.1	154
21	A multinuclear MR study of Gd-EOB-DTPA: Comprehensive preclinical characterization of an organ specific MRI contrast agent. Magnetic Resonance in Medicine, 1997, 38, 604-614.	1.9	136
22	Hydrogels Incorporating GdDOTA: Towards Highly Efficient Dual T₁/T₂ MRI Contrast Agents. Angewandte Chemie - International Edition, 2012, 51, 9119-9122.	7.2	134
23	Irreversible changes in protein conformation due to interaction with superparamagnetic iron oxide nanoparticles. Nanoscale, 2011, 3, 1127-38.	2.8	112
24	Superparamagnetic iron oxide nanoparticles for in vivo molecular and cellular imaging. Contrast Media and Molecular Imaging, 2015, 10, 329-355.	0.4	109
25	Physicochemical Characterization of MS-325, a New Gadolinium Complex, by Multinuclear Relaxometry. European Journal of Inorganic Chemistry, 1999, 1999, 1949-1955.	1.0	107
26	Mastering the Shape and Composition of Dendronized Iron Oxide Nanoparticles To Tailor Magnetic Resonance Imaging and Hyperthermia. Chemistry of Materials, 2014, 26, 5252-5264.	3.2	105
27	High quality and tuneable silica shellâ€“magnetic core nanoparticles. Journal of Nanoparticle Research, 2010, 12, 1137-1147.	0.8	104
28	Protein corona affects the relaxivity and MRI contrast efficiency of magnetic nanoparticles. Nanoscale, 2013, 5, 8656.	2.8	98
29	Contrast Agents: Magnetic Resonance. Handbook of Experimental Pharmacology, 2008, , 135-165.	0.9	96
30	Iron Oxide Based MR Contrast Agents: from Chemistry to Cell Labeling. Current Medicinal Chemistry, 2009, 16, 4712-4727.	1.2	88
31	Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129435.	1.1	86
32	How to measure the transmetallation of a gadolinium complex. Contrast Media and Molecular Imaging, 2010, 5, 305-308.	0.4	83
33	Peptidic Targeting of Phosphatidylserine for the MRI Detection of Apoptosis in Atherosclerotic Plaques. Molecular Pharmaceutics, 2009, 6, 1903-1919.	2.3	78
34	Superparamagnetic nanosystems based on iron oxide nanoparticles for biomedical imaging. Nanomedicine, 2011, 6, 519-528.	1.7	76
35	How to quantify iron in an aqueous or biological matrix: a technical note. Contrast Media and Molecular Imaging, 2009, 4, 299-304.	0.4	73
36	Significance of cell â€œobserverâ€•and protein source in nanobiosciences. Journal of Colloid and Interface Science, 2013, 392, 431-445.	5.0	73

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37	Development of a Magnetic Resonance Imaging Protocol for the Characterization of Atherosclerotic Plaque by Using Vascular Cell Adhesion Molecule-1 and Apoptosis-Targeted Ultrasmall Superparamagnetic Iron Oxide Derivatives. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, e36-48.	1.1	72
38	Nanotoxicology: advances and pitfalls in research methodology. Nanomedicine, 2015, 10, 2931-2952.	1.7	70
39	Potential MRI Contrast Agents Based on Micellar Incorporation of Amphiphilic Bis(alkylamide) Derivatives of [(Gdâ^'DTPA)(H2O)]2â^'. European Journal of Inorganic Chemistry, 2003, 2003, 3021-3027.	1.0	67
40	Relaxometric Studies of Î³-Fe₂O₃@SiO₂Core Shell Nanoparticles: When the Coating Matters. Journal of Physical Chemistry C, 2012, 116, 2285-2291.	1.5	65
41	Iron oxideâ€"gold coreâ€"shell nano-theranostic for magnetically targeted photothermal therapy under magnetic resonance imaging guidance. Journal of Cancer Research and Clinical Oncology, 2019, 145, 1213-1219.	1.2	65
42	Superparamagnetic iron oxide nanoparticles: promises for diagnosis and treatment of cancer. International Journal of Molecular Epidemiology and Genetics, 2011, 2, 367-90.	0.4	65
43	Polyglycerolâ€grafted superparamagnetic iron oxide nanoparticles: highly efficient MRI contrast agent for liver and kidney imaging and potential scaffold for cellular and molecular imaging. Contrast Media and Molecular Imaging, 2012, 7, 185-194.	0.4	64
44	Simulation-guided photothermal therapy using MRI-traceable iron oxide-gold nanoparticle. Journal of Photochemistry and Photobiology B: Biology, 2019, 199, 111599.	1.7	63
45	Proteomics Analysis Reveals Distinct Corona Composition on Magnetic Nanoparticles with Different Surface Coatings: Implications for Interactions with Primary Human Macrophages. PLoS ONE, 2015, 10, e0129008.	1.1	61
46	Gadolinium DTPA-Monoamide Complexes Incorporated into Mixed Micelles as Possible MRI Contrast Agents. European Journal of Inorganic Chemistry, 2004, 2004, 3538-3543.	1.0	59
47	Synthesis and Characterization of Various Benzyl Diethylenetriaminepentaacetic Acids (dtpa) and Their Paramagnetic Complexes, Potential Contrast Agents for Magnetic Resonance Imaging. Helvetica Chimica Acta, 2000, 83, 394-406.	1.0	57
48	Optimization of the Synthesis of Superparamagnetic Contrast Agents by the Design of Experiments Method. Journal of Physical Chemistry C, 2008, 112, 19178-19185.	1.5	55
49	Synthesis and processing of magnetic nanoparticles. Current Opinion in Chemical Engineering, 2015, 8, 7-14.	3.8	55
50	Infection-resistant MRI-visible scaffolds for tissue engineering applications. BioImpacts, 2016, 6, 111-115.	0.7	55
51	A New Peptidic Vector for Molecular Imaging of Apoptosis, Identified by Phage Display Technology. Journal of Biomolecular Screening, 2006, 11, 537-545.	2.6	53
52	Can the Theoretical Fitting of the Proton-Nuclear-Magnetic-Relaxation-Dispersion (Proton NMRD) Curves of Paramagnetic Complexes Be Improved by Independent Measurement of Their Self-Diffusion Coefficients?. Helvetica Chimica Acta, 2005, 88, 574-587.	1.0	52
53	Nanoparticles Based on Star Polymers as Theranostic Vectors: Endosomalâ€Triggered Drug Release Combined with MRI Sensitivity. Advanced Healthcare Materials, 2015, 4, 148-156.	3.9	52
54	Hyperthermia-induced protein corona improves the therapeutic effects of zinc ferrite spinel-graphene sheets against cancer. RSC Advances, 2014, 4, 62557-62565.	1.7	50

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55	Fabrication of Nanofibrous PVA/Alginateâ€Sulfate Substrates for Growth Factor Delivery. Journal of Biomedical Materials Research - Part A, 2019, 107, 403-413.	2.1	50
56	Functionalization of Small Rigid Platforms with Cyclic RGD Peptides for Targeting Tumors Overexpressing Î±_vÎ²₃-Integrins. Bioconjugate Chemistry, 2013, 24, 1584-1597.	1.8	49
57	A Heterobimetallic Ruthenâ€“Gadolinium Complex as a Potential Agent for Bimodal Imaging. Inorganic Chemistry, 2011, 50, 10005-10014.	1.9	48
58	Interdisciplinary challenges and promising theranostic effects of nanoscience in Alzheimer's disease. RSC Advances, 2012, 2, 5008.	1.7	48
59	A new approach to follow the formation of iron oxide nanoparticles synthesized by thermal decomposition. Nanotechnology, 2013, 24, 055705.	1.3	47
60	Nano-thermometers with thermo-sensitive polymer grafted USPIOs behaving as positive contrast agents in low-field MRI. Nanoscale, 2015, 7, 3754-3767.	2.8	47
61	Synthesis and Physicochemical Characterisation of Gdâ€ÐTPA Derivatives as Contrast Agents for MRI. European Journal of Inorganic Chemistry, 2012, 2012, 1889-1915.	1.0	46
62	Magnetic Resonance Molecular Imaging of Vascular Cell Adhesion Molecule-1 Expression in Inflammatory Lesions Using a Peptide-Vectorized Paramagnetic Imaging Probe. Journal of Medicinal Chemistry, 2009, 52, 4725-4742.	2.9	45
63	Metal chelating crosslinkers form nanogels with high chelation stability. Journal of Materials Chemistry B, 2013, 1, 6359.	2.9	45
64	Synthesis and Physicochemical Characterization of Gdâˆ’DTPAâˆ’B(sLex)A, a New MRI Contrast Agent Targeted to Inflammation. Bioconjugate Chemistry, 2004, 15, 99-103.	1.8	44
65	Potential amyloid plaque-specific peptides for the diagnosis of Alzheimer's disease. Neurobiology of Aging, 2010, 31, 1679-1689.	1.5	44
66	The precise molecular location of gadolinium atoms has a significant influence on the efficacy of nanoparticulate MRI positive contrast agents. Polymer Chemistry, 2014, 5, 2592-2601.	1.9	44
67	Hepatic and Renal Toxicity Induced by TiO₂ Nanoparticles in Rats: A Morphological and Metabonomic Study. Journal of Toxicology, 2019, 2019, 1-19.	1.4	43
68	Synthesis, Variable Temperature and Pressure 17O NMR Study of Bis(alkylamide) Derivatives of [(Gd-DTPA)(H2O)]2 âˆ’ An Assessment of the Substitution Effect on Water Exchange Kinetics. European Journal of Inorganic Chemistry, 2002, 2002, 2686-2693.	1.0	40
69	Stereospecific binding of MRI contrast agents to human serum albumin: the case of Gd-(S)-EOB-DTPA (Eovist) and its (R) isomer. Journal of Biological Inorganic Chemistry, 2001, 6, 196-200.	1.1	39
70	Pharmacokinetic andin vivo evaluation of a self-assembled gadolinium(III)-iron(II) contrast agent with high relaxivity. Contrast Media and Molecular Imaging, 2006, 1, 267-278.	0.4	39
71	Mn^{II}-containing coordination nanoparticles as highly efficient T₁ contrast agents for magnetic resonance imaging. Chemical Communications, 2014, 50, 6740-6743.	2.2	38
72	Superparamagnetic iron oxide nanoparticles alter expression of obesity and T2D-associated risk genes in human adipocytes. Scientific Reports, 2013, 3, 2173.	1.6	36

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73	Carboxy-silane coated iron oxide nanoparticles: a convenient platform for cellular and small animal imaging. Journal of Materials Chemistry B, 2014, 2, 387-397.	2.9	36
74	Dual nanoâ€sized contrast agents in PET/MRI: a systematic review. Contrast Media and Molecular Imaging, 2016, 11, 428-447.	0.4	36
75	Morphological alterations induced by the exposure to TiO2 nanoparticles in primary cortical neuron cultures and in the brain of rats. Toxicology Reports, 2018, 5, 878-889.	1.6	36
76	In vitro characterization of the Gd complex of [2,6-pyridinediylbis(methylene nitrilo)] tetraacetic acid (PMN-tetraacetic acid) and of its Eu analogue, suitable bimodal contrast agents for MRI and optical imaging. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 6230-6233.	1.0	35
77	Polymerâ€“gold nanohybrids with potential use in bimodal MRI/CT: enhancing the relaxometric properties of Gd(iii) complexes. Journal of Materials Chemistry, 2012, 22, 21382.	6.7	34
78	MRI-based numerical modeling strategy for simulation and treatment planning of nanoparticle-assisted photothermal therapy. Physica Medica, 2019, 66, 124-132.	0.4	34
79	Paramagnetic Liposomes:â€‰ Inner versus Outer Membrane Relaxivity of DPPC Liposomes Incorporating Lipophilic Gadolinium Complexes. Langmuir, 2008, 24, 4347-4351.	1.6	33
80	Relaxivities of paramagnetic liposomes: on the importance of the chain type and the length of the amphiphilic complex. European Biophysics Journal, 2008, 37, 1007-1014.	1.2	32
81	In vitro biomedical applications of functionalized iron oxide nanoparticles, including those not related to magnetic properties. Contrast Media and Molecular Imaging, 2011, 6, 236-250.	0.4	32
82	In vitro and in vivo characterization of several functionalized ultrasmall particles of iron oxide, vectorized against amyloid plaques and potentially able to cross the bloodâ€“brain barrier: toward earlier diagnosis of Alzheimer's disease by molecular imaging. Contrast Media and Molecular Imaging, 2015, 10, 211-224.	0.4	32
83	Biocompatible and fluorescent superparamagnetic iron oxide nanoparticles with superior magnetic properties coated with charged polysaccharide derivatives. Colloids and Surfaces B: Biointerfaces, 2017, 150, 402-407.	2.5	32
84	New mono-ether of glycerol and triterpenes with DPPH radical scavenging activity from Cameroonian propolis. Natural Product Research, 2017, 31, 1379-1389.	1.0	31
85	Influence of experimental parameters on iron oxide nanoparticle properties synthesized by thermal decomposition: size and nuclear magnetic resonance studies. Nanotechnology, 2018, 29, 165603.	1.3	31
86	Combinatorial effects of radiofrequency hyperthermia and radiotherapy in the presence of magnetoâ€plasmonic nanoparticles on MCFâ€7 breast cancer cells. Journal of Cellular Physiology, 2019, 234, 20028-20035.	2.0	31
87	A new metallostar complex based on an aluminum(iii) 8-hydroxyquinoline core as a potential bimodal contrast agent. Dalton Transactions, 2012, 41, 10549.	1.6	30
88	Micellar self-assemblies of gadolinium(iii)/europium(iii) amphiphilic complexes as model contrast agents for bimodal imaging. Dalton Transactions, 2014, 43, 3589.	1.6	30
89	Tuning the composition of biocompatible Gd nanohydrogels to achieve hypersensitive dual T₁/T₂ MRI contrast agents. Journal of Materials Chemistry B, 2014, 2, 6397-6405.	2.9	29
90	An update on the applications and characteristics of magnetic iron oxide nanoparticles for drug delivery. Expert Opinion on Drug Delivery, 2022, 19, 321-335.	2.4	29

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91	Lanthanide(III) Complexes of Diethylenetriaminepentaacetic Acid (DTPA)â€“Bisamide Derivatives as Potential Agents for Bimodal (Optical/Magnetic Resonance) Imaging. European Journal of Inorganic Chemistry, 2013, 2013, 2629-2639.	1.0	28
92	Validation of a dendron concept to tune colloidal stability, MRI relaxivity and bioelimination of functional nanoparticles. Journal of Materials Chemistry B, 2015, 3, 1484-1494.	2.9	28
93	A comparative physicochemical, morphological and magnetic study of silane-functionalized superparamagnetic iron oxide nanoparticles prepared by alkaline coprecipitation. International Journal of Biochemistry and Cell Biology, 2016, 75, 203-211.	1.2	28
94	Synthesis and Characterization of PEGylated and Fluorinated Chitosans: Application to the Synthesis of Targeted Nanoparticles for Drug Delivery. Biomacromolecules, 2017, 18, 2756-2766.	2.6	28
95	Synthesis of a Sialyl LewisX Mimetic Conjugated with DTPA, Potential Ligand of New Contrast Agents for Medical Imaging. European Journal of Organic Chemistry, 2002, 2002, 3966-3973.	1.2	27
96	An original route to stabilize and functionalize magnetite nanoparticles for theranosis applications. Journal of Magnetism and Magnetic Materials, 2011, 323, 410-415.	1.0	27
97	Galectin-1 is a diagnostic marker involved in thyroid cancer progression. International Journal of Oncology, 2017, 51, 760-770.	1.4	27
98	Fluorinated MRI contrast agents and their versatile applications in the biomedical field. Future Medicinal Chemistry, 2019, 11, 1157-1175.	1.1	27
99	Selective liquid phase oxidation of ethyl benzene to acetophenone by palladium nanoparticles immobilized on a g-C₃N₄â€“rGO composite as a recyclable catalyst. New Journal of Chemistry, 2019, 43, 6921-6931.	1.4	27
100	Influence of the length of the coating molecules on the nuclear magnetic relaxivity of superparamagnetic colloids. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3644-3650.	0.8	26
101	Relaxivity and Transmetallation Stability of New Benzyl-Substituted Derivatives of Gadoliumï£¿DTPA Complexes. Helvetica Chimica Acta, 2004, 87, 1077-1089.	1.0	26
102	PEGylated superparamagnetic iron oxide nanoparticles labeled with 68Ga as a PET/MRI contrast agent: a biodistribution study. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 769-774.	0.7	25
103	Discrimination of Regioisomeric and Stereoisomeric Saponins from Aesculus hippocastanum Seeds by Ion Mobility Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2228-2237.	1.2	25
104	VCAM-1 Target in Non-Invasive Imaging for the Detection of Atherosclerotic Plaques. Biology, 2020, 9, 368.	1.3	25
105	MRI Contrast Agents. SpringerBriefs in Applied Sciences and Technology, 2017, , .	0.2	24
106	Silica Coated Iron/Iron Oxide Nanoparticles as a Nano-Platform for T2 Weighted Magnetic Resonance Imaging. Molecules, 2019, 24, 4629.	1.7	24
107	Bis(phenylethylamide) Derivatives of Gd-DTPA as Potential Receptor-Specific MRI Contrast Agents. European Journal of Inorganic Chemistry, 2007, 2007, 2061-2067.	1.0	23
108	Effect of chain length and electrical charge on properties of ammonium-bearing bisphosphonate-coated superparamagnetic iron oxide nanoparticles: formulation and physicochemical studies. Journal of Nanoparticle Research, 2010, 12, 1239-1248.	0.8	23

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109	Development of magnetic chromatography to sort polydisperse nanoparticles in ferrofluids. Contrast Media and Molecular Imaging, 2010, 5, 126-132.	0.4	23
110	New carboxysilaneâ€coated iron oxide nanoparticles for nonspecific cell labelling. Contrast Media and Molecular Imaging, 2013, 8, 466-474.	0.4	23
111	Size-Controlled Synthesis of CoFe₂O₄Nanoparticles Potential Contrast Agent for MRI and Investigation on Their Size-Dependent Magnetic Properties. Journal of Nanomaterials, 2013, 2013, 1-9.	1.5	23
112	Unveiling the role of surface, size, shape and defects of iron oxide nanoparticles for theranostic applications. Nanoscale, 2021, 13, 14552-14571.	2.8	23
113	Metallic bismuth nanoparticles: Towards a robust, productive and ultrasound assisted synthesis from batch to flow-continuous chemistry. Ultrasonics Sonochemistry, 2019, 56, 167-173.	3.8	22
114	Investigation of non-covalent interactions between paramagnetic complexes and human serum albumin by electrospray mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 1919-1924.	0.7	21
115	An Assessment of the Potential Relationship between the Charge of Gdâ€“DTPA Complexes and the Exchange Rate of the Water Coordinated to the Metal. European Journal of Inorganic Chemistry, 2008, 2008, 4369-4379.	1.0	21
116	Fluorescent magnetic nanoparticles for cell labeling: Flux synthesis of manganite particles and novel functionalization of silica shell. Journal of Colloid and Interface Science, 2015, 447, 97-106.	5.0	21
117	Optimising the design of paramagnetic MRI contrast agents: influence of backbone substitution on the water exchange rate of Gd-DTPA derivatives. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 16, 235-245.	1.1	20
118	High-Relaxivity and Luminescent Silica Nanoparticles As Multimodal Agents for Molecular Imaging. Langmuir, 2013, 29, 3419-3427.	1.6	20
119	Magnetofluorescent micellar complexes of terbium(<scp>iii</scp>) as potential bimodal contrast agents for magnetic resonance and optical imaging. Chemical Communications, 2015, 51, 2984-2986.	2.2	20
120	Metal Oxide Particles and Their Prospects for Applications. , 2018, , 3-42.		20
121	Reinvestigation of the mechanism of polymerization of Î²-butyrolactone from 1,5,7-triazabicyclo[4.4.0]dec-5-ene. Polymer Chemistry, 2018, 9, 1840-1847.	1.9	20
122	Medical Applications of Metallic Bismuth Nanoparticles. Pharmaceutics, 2021, 13, 1793.	2.0	20
123	Characterization of iminopropadienone ions and neutrals in a tandem mass spectrometer. Rapid Communications in Mass Spectrometry, 1992, 6, 667-670.	0.7	19
124	New Bifunctional Contrast Agents: Bis-Amide Derivatives ofC-Substituted Gd-DTPA. European Journal of Inorganic Chemistry, 2004, 2004, 463-468.	1.0	19
125	A Modular Approach towards the Synthesis of Targetâ€Specific MRI Contrast Agents. European Journal of Inorganic Chemistry, 2011, 2011, 3577-3585.	1.0	19
126	Development of a peptideâ€functionalized imaging nanoprobe for the targeting of (FXYD2)Î³a as a highly specific biomarker of pancreatic beta cells. Contrast Media and Molecular Imaging, 2015, 10, 398-412.	0.4	19

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127	Influence of Experimental Parameters of a Continuous Flow Process on the Properties of Very Small Iron Oxide Nanoparticles (VSION) Designed for T1-Weighted Magnetic Resonance Imaging (MRI). Nanomaterials, 2020, 10, 757.	1.9	19
128	Mn²⁺ Complexes with Pyclen-Based Derivatives as Contrast Agents for Magnetic Resonance Imaging: Synthesis and Relaxometry Characterization. Inorganic Chemistry, 2021, 60, 3604-3619.	1.9	19
129	Human Alveolar Epithelial Cell Responses to Coreâ€“Shell Superparamagnetic Iron Oxide Nanoparticles (SPIONs). Langmuir, 2015, 31, 3829-3839.	1.6	18
130	VSION as high field MRI T1 contrast agent: evidence of their potential as positive contrast agent for magnetic resonance angiography. Nanotechnology, 2018, 29, 265103.	1.3	18
131	Structure and Dynamics of Lanthanide Complexes of Triethylenetetramine-N,N,N?,N?,N???,N???-hexaacetic Acid (H6ttha) and of Diamides H4ttha(NHR) Derived from H6ttha as Studied by NMR, NMRD, and EPR. Helvetica Chimica Acta, 2005, 88, 618-632.	1.0	17
132	Ultrasmall Superparamagnetic Iron Oxide Nanoparticles with Europium(III) DO3A as a Bimodal Imaging Probe. Chemistry - A European Journal, 2016, 22, 4521-4527.	1.7	17
133	Fluorophore-tagged superparamagnetic iron oxide nanoparticles as bimodal contrast agents for MR/optical imaging. Journal of the Iranian Chemical Society, 2016, 13, 87-93.	1.2	17
134	Characterization of Gd loaded chitosan-TPP nanohydrogels by a multi-technique approach combining dynamic light scattering (DLS), asymetrical flow-field-flow-fractionation (AF4) and atomic force microscopy (AFM) and design of positive contrast agents for molecular resonance imaging (MRI). Nanotechnology, 2017, 28, 055705.	1.3	17
135	Study of non-covalent interactions between MRI contrast agents and human serum albumin by NMR diffusometry. Journal of Biological Inorganic Chemistry, 2009, 14, 683-691.	1.1	16
136	Molecular Imaging: From Bench to Clinic. BioMed Research International, 2014, 2014, 1-3.	0.9	16
137	Dendron based antifouling, MRI and magnetic hyperthermia properties of different shaped iron oxide nanoparticles. Nanotechnology, 2019, 30, 374002.	1.3	16
138	Synthesis and Physicochemical Characterization of Gd-C4-Thyroxin-DTPA, a Potential MRI Contrast Agent. Evaluation of Its Affinity for Human Serum Albumin by Proton Relaxometry, NMR Diffusometry, and Electrospray Mass Spectrometry. Journal of Physical Chemistry B, 2010, 114, 3689-3697.	1.2	15
139	Importance of DOTA derivatives in bimodal imaging. Israel Journal of Chemistry, 2017, 57, 800-808.	1.0	15
140	Embedding of superparamagnetic iron oxide nanoparticles into membranes of well-defined poly(ethylene oxide)-block-poly(Îµ-caprolactone) nanoscale magnetovesicles as ultrasensitive MRI probes of membrane bio-degradation. Journal of Materials Chemistry B, 2019, 7, 4692-4705.	2.9	15
141	Tailored ultra-small Prussian blue-based nanoparticles for MRI imaging and combined photothermal/photoacoustic theranostics. Chemical Communications, 2019, 55, 14844-14847.	2.2	15
142	Bifunctional Gd(III) and Tb(III) chelates based on a pyridineâ€“bis(iminodiacetate) platform, suitable optical probes and contrast agents for magnetic resonance imaging. Contrast Media and Molecular Imaging, 2014, 9, 300-312.	0.4	14
143	Magnetofluorescent micelles incorporating Dy^{III}â€“DOTA as potential bimodal agents for optical and high field magnetic resonance imaging. Dalton Transactions, 2016, 45, 4791-4801.	1.6	14
144	Toxicity of TiO2 nanoparticles on the NRK52E renal cell line. Molecular and Cellular Toxicology, 2017, 13, 419-431.	0.8	14

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145	Lipids constituents from Gardenia aqualla Stapf & Hutch. Open Chemistry, 2018, 16, 371-376.	1.0	14
146	Slow clearance gadolinium-based extracellular and intravascular contrast media for three-dimensional MR angiography. Journal of Magnetic Resonance Imaging, 2001, 13, 588-593.	1.9	13
147	The Gd³⁺ complex of 1,4,7,10â€tetraazacyclododecaneâ€1,4,7,10â€tetraacetic acid mono(pâ€isothiocyanatoanilide) conjugated to inulin: a potential stable macromolecular contrast agent for MRI. Contrast Media and Molecular Imaging, 2011, 6, 482-491.	0.4	13
148	Modulation of Relaxivity, Suspension Stability, and Biodistribution of Dendronized Iron Oxide Nanoparticles as a Function of the Organic Shell Design. Particle and Particle Systems Characterization, 2015, 32, 552-560.	1.2	13
149	HR-MAS NMR Spectroscopy: An Innovative Tool for the Characterization of Iron Oxide Nanoparticles Tracers for Molecular Imaging. Analytical Chemistry, 2015, 87, 1701-1710.	3.2	13
150	Functionalization of the PEG Corona of Nanoparticles by Clip Photochemistry in Water: Application to the Grafting of RGD Ligands on PEGylated USPIO Imaging Agent. Bioconjugate Chemistry, 2015, 26, 822-829.	1.8	13
151	Bimodal Probe for Magnetic Resonance Imaging and Photoacoustic Imaging Based on a PCTAâ€Derived Gadolinium(III) Complex and ZW800â€“1. European Journal of Inorganic Chemistry, 2019, 2019, 3354-3365.	1.0	13
152	Development of an LDL Receptor-Targeted Peptide Susceptible to Facilitate the Brain Access of Diagnostic or Therapeutic Agents. Biology, 2020, 9, 161.	1.3	13
153	Synthesis and characterization of a new lanthanide based MRI contrast agent, potential and versatile tracer for multimodal imaging. Tetrahedron, 2014, 70, 5450-5454.	1.0	12
154	Thermodynamic stability and kinetic inertness of a Gdâ€“DTPA bisamide complex grafted onto gold nanoparticles. Contrast Media and Molecular Imaging, 2015, 10, 179-187.	0.4	12
155	Screening for peptides targeted to IL-7RÎ± for molecular imaging of rheumatoid arthritis synovium. Arthritis Research and Therapy, 2016, 18, 230.	1.6	12
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