Peter Caravan

List of Publications by Year
in descending order

203 papers	17,484 citations	25034 57 h-index	14208 128 g-index
224 all docs	224 docs citations	224 times ranked	14553 citing authors

#	Article	IF	Citations
1	Gadolinium(III) Chelates as MRI Contrast Agents:â€‰ Structure, Dynamics, and Applications. Chemical Reviews, 1999, 99, 2293-2352.	47.7	4,098
2	Strategies for increasing the sensitivity of gadolinium based MRI contrast agents. Chemical Society Reviews, 2006, 35, 512.	38.1	1,292
3	Chemistry of MRI Contrast Agents: Current Challenges and New Frontiers. Chemical Reviews, 2019, 119, 957-1057.	47.7	977
4	Biodistribution of gadoliniumâ€based contrast agents, including gadolinium deposition. Journal of Magnetic Resonance Imaging, 2009, 30, 1259-1267.	3.4	444
5	Influence of molecular parameters and increasing magnetic field strength on relaxivity of gadoliniumâ€• and manganeseâ€based T₁ contrast agents. Contrast Media and Molecular Imaging, 2009, 4, 89-100.	0.8	437
6	The Interaction of MS-325 with Human Serum Albumin and Its Effect on Proton Relaxation Rates. Journal of the American Chemical Society, 2002, 124, 3152-3162.	13.7	432
7	Protein-Targeted Gadolinium-Based Magnetic Resonance Imaging (MRI) Contrast Agents: Design and Mechanism of Action. Accounts of Chemical Research, 2009, 42, 851-862.	15.6	346
8	Primer on gadolinium chemistry. Journal of Magnetic Resonance Imaging, 2009, 30, 1240-1248.	3.4	335
9	Epidermal growth factor receptor inhibition attenuates liver fibrosis and development of hepatocellular carcinoma. Hepatology, 2014, 59, 1577-1590.	7.3	290
10	A Manganese Alternative to Gadolinium for MRI Contrast. Journal of the American Chemical Society, 2015, 137, 15548-15557.	13.7	262
11	Potentiometric, Calorimetric, and Solution NMR Studies of a Tridentate Ligand Which has a Marked Preference for Formation of Bis(ligand) versus Mono(ligand) Lanthanide Complexes and Which Exhibits High Selectivity for Heavier Lanthanides. Journal of the American Chemical Society, 1995, 117, 11230-11238.	13.7	260
12	Collagenâ€Targeted MRI Contrast Agent for Molecular Imaging of Fibrosis. Angewandte Chemie - International Edition, 2007, 46, 8171-8173.	13.8	220
13	EP-2104R: A Fibrin-Specific Gadolinium-Based MRI Contrast Agent for Detection of Thrombus. Journal of the American Chemical Society, 2008, 130, 6025-6039.	13.7	208
14	Gut microbiota is critical for the induction of chemotherapy-induced pain. Nature Neuroscience, 2017, 20, 1213-1216.	14.8	194
15	Redox-Activated Manganese-Based MR Contrast Agent. Journal of the American Chemical Society, 2013, 135, 4620-4623.	13.7	156
16	Postinfarction Myocardial Scarring in Mice: Molecular MR Imaging with Use of a Collagen-targeting Contrast Agent. Radiology, 2008, 247, 788-796.	7.3	155
17	Thrombus Imaging With Fibrin-Specific Gadolinium-Based MR Contrast Agent EP-2104R. Investigative Radiology, 2009, 44, 697-704.	6.2	151
18	Bimodal MRâ€“PET Agent for Quantitative pH Imaging. Angewandte Chemie - International Edition, 2010, 49, 2382-2384.	13.8	145

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19	Albumin Binding, Relaxivity, and Water Exchange Kinetics of the Diastereoisomers of MS-325, a Gadolinium(III)-Based Magnetic Resonance Angiography Contrast Agent. Inorganic Chemistry, 2007, 46, 6632-6639.	4.0	143
20	Contrast agents for MRI: 30+ years and where are we going?. Journal of Biological Inorganic Chemistry, 2014, 19, 127-131.	2.6	141
21	Synthesis and Evaluation of a High Relaxivity Manganese(II)-Based MRI Contrast Agent. Inorganic Chemistry, 2004, 43, 6313-6323.	4.0	136
22	Enzyme-Activated Gd3+ Magnetic Resonance Imaging Contrast Agents with a Prominent Receptor-Induced Magnetization Enhancement. Angewandte Chemie - International Edition, 2001, 40, 2903-2906.	13.8	135
23	Molecular MRI of collagen to diagnose and stage liver fibrosis. Journal of Hepatology, 2013, 59, 992-998.	3.7	128
24	Type I collagenâ€“targeted PET probe for pulmonary fibrosis detection and staging in preclinical models. Science Translational Medicine, 2017, 9, .	12.4	128
25	High-Relaxivity Magnetic Resonance Imaging Contrast Agents Part 2. Investigative Radiology, 2010, 45, 613-624.	6.2	119
26	Potentiometric and Relaxometric Properties of a Gadolinium-Based MRI Contrast Agent for Sensing Tissue pH. Inorganic Chemistry, 2007, 46, 5260-5270.	4.0	116
27	MR imaging probes: design and applications. Dalton Transactions, 2015, 44, 4804-4818.	3.3	112
28	Synthesis and Relaxometric Studies of a Dendrimerâ€Based pHâ€Responsive MRI Contrast Agent. Chemistry - A European Journal, 2008, 14, 7250-7258.	3.3	104
29	The biological fate of gadolinium-based MRI contrast agents: a call to action for bioinorganic chemists. Metallomics, 2019, 11, 240-254.	2.4	100
30	Multilocus Binding Increases the Relaxivity of Protein-Bound MRI Contrast Agents. Angewandte Chemie - International Edition, 2005, 44, 6766-6769.	13.8	97
31	Molecular MR imaging of liver fibrosis: A feasibility study using rat and mouse models. Journal of Hepatology, 2012, 57, 549-555.	3.7	97
32	Molecular Magnetic Resonance Imaging Using a Redox-Active Iron Complex. Journal of the American Chemical Society, 2019, 141, 5916-5925.	13.7	96
33	Glucose-lowering properties of vanadium compounds: Comparison of coordination complexes with maltol or kojic acid as ligands. Journal of Inorganic Biochemistry, 1997, 68, 109-116.	3.5	95
34	Interpretation of Activation Volumes for Water Exchange Reactions Revisited:ÂAbInitioCalculations for Al3+, Ga3+, and In3+, and New Experimental Data. Journal of the American Chemical Society, 1998, 120, 6569-6577.	13.7	95
35	Direct Measurement of the Mn(II) Hydration State in Metal Complexes and Metalloproteins through ¹⁷O NMR Line Widths. Journal of the American Chemical Society, 2013, 135, 18600-18608.	13.7	92
36	Molecular Magnetic Resonance Imaging of Pulmonary Fibrosis in Mice. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 1120-1126.	2.9	89

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37	A Manganese-based Alternative to Gadolinium: Contrast-enhanced MR Angiography, Excretion, Pharmacokinetics, and Metabolism. Radiology, 2018, 286, 865-872.	7.3	87
38	Bimodal Thrombus Imaging: Simultaneous PET/MR Imaging with a Fibrin-targeted Dual PET/MR Probeâ€"Feasibility Study in Rat Model. Radiology, 2011, 258, 812-820.	7.3	86
39	Molecular imaging of fibrosis: recent advances and future directions. Journal of Clinical Investigation, 2019, 129, 24-33.	8.2	86
40	The Gadolinium(III)â^'Water Hydrogen Distance in MRI Contrast Agents. Inorganic Chemistry, 2003, 42, 3972-3974.	4.0	81
41	Applications for Transition-Metal Chemistry in Contrast-Enhanced Magnetic Resonance Imaging. Inorganic Chemistry, 2020, 59, 6648-6678.	4.0	80
42	Nuclear and Electronic Relaxation of Eu2+(aq):Â An Extremely Labile Aqua Ion1. Journal of the American Chemical Society, 1999, 121, 10403-10409.	13.7	79
43	High Relaxivity Magnetic Resonance Imaging Contrast Agents Part 1. Investigative Radiology, 2010, 45, 600-612.	6.2	79
44	The Gd3+Complex of a Fatty Acid Analogue of DOTP Binds to Multiple Albumin Sites with Variable Water Relaxivities. Inorganic Chemistry, 2001, 40, 6580-6587.	4.0	78
45	Species Dependence on Plasma Protein Binding and Relaxivity of the Gadolinium-Based MRI Contrast Agent MS-325. Investigative Radiology, 2006, 41, 229-243.	6.2	77
46	High-field pulsed EPR and ENDOR of Gd3+ complexes in glassy solutions. Applied Magnetic Resonance, 2005, 28, 281-295.	1.2	76
47	Thermodynamic Stability and Kinetic Inertness of MS-325, a New Blood Pool Agent for Magnetic Resonance Imaging. Inorganic Chemistry, 2001, 40, 2170-2176.	4.0	73
48	Structureâ€"Redoxâ€"Relaxivity Relationships for Redox Responsive Manganese-Based Magnetic Resonance Imaging Probes. Inorganic Chemistry, 2014, 53, 10748-10761.	4.0	73
49	Manganese-Based Contrast Agents for Magnetic Resonance Imaging of Liver Tumors: Structureâ€"Activity Relationships and Lead Candidate Evaluation. Journal of Medicinal Chemistry, 2018, 61, 8811-8824.	6.4	72
50	Gd(DOTAla): A Single Amino Acid Gd-complex as a Modular Tool for High Relaxivity MR Contrast Agent Development. Journal of the American Chemical Society, 2012, 134, 19858-19868.	13.7	70
51	Uncoupling of the profibrotic and hemostatic effects of thrombin in lung fibrosis. JCI Insight, 2017, 2, .	5.0	67
52	W-Band17O Pulsed Electron Nuclear Double Resonance Study of Gadolinium Complexes with Water. Journal of Physical Chemistry A, 2004, 108, 7318-7323.	2.5	66
53	Chiral DOTA chelators as an improved platform for biomedical imaging and therapy applications. Nature Communications, 2018, 9, 857.	12.8	64
54	Pulsed ENDOR Study of Water Coordination to Gd3+Complexes in Orientationally Disordered Systems. Journal of Physical Chemistry A, 2004, 108, 1990-2001.	2.5	62

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55	Fibrin Specific Peptides Derived by Phage Display: Characterization of Peptides and Conjugates for Imaging. Bioconjugate Chemistry, 2012, 23, 548-556.	3.6	60
56	Orthotopic and heterotopic murine models of pancreatic cancer and their different responses to FOLFIRINOX chemotherapy. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	60
57	Protein Binding to Lanthanide(III) Complexes Can Reduce the Water Exchange Rate at the Lanthanide. Inorganic Chemistry, 2007, 46, 3576-3584.	4.0	59
58	A Janus Chelator Enables Biochemically Responsive MRI Contrast with Exceptional Dynamic Range. Journal of the American Chemical Society, 2016, 138, 15861-15864.	13.7	59
59	Molecular Magnetic Resonance Imaging of Myocardial Perfusion With EP-3600, a Collagen-Specific Contrast Agent. Circulation, 2009, 119, 1768-1775.	1.6	58
60	Hexameric Mn^{II} Dendrimer as MRI Contrast Agent. Chemistry - A European Journal, 2014, 20, 14507-14513.	3.3	58
61	3D molecular MR imaging of liver fibrosis and response to rapamycin therapy in a bile duct ligation rat model. Journal of Hepatology, 2015, 63, 689-696.	3.7	57
62	Molecular imaging of oxidized collagen quantifies pulmonary and hepatic fibrogenesis. JCI Insight, 2017, 2, .	5.0	57
63	Macrocycleâ€Based Hydroxamate Ligands for Complexation and Immunoconjugation of ⁸⁹Zirconium for Positron Emission Tomography (PET) Imaging. ChemPlusChem, 2016, 81, 274-281.	2.8	55
64	Molecular MRI of Acute Necrosis With a Novel DNA-Binding Gadolinium Chelate. Circulation: Cardiovascular Imaging, 2011, 4, 729-737.	2.6	54
65	T2 relaxation time is related to liver fibrosis severity. Quantitative Imaging in Medicine and Surgery, 2016, 6, 103-114.	2.0	54
66	Monovalent and Bivalent Fibrinâ€specific MRI Contrast Agents for Detection of Thrombus. Angewandte Chemie - International Edition, 2008, 47, 4918-4921.	13.8	53
67	Molecular MRI of Intracranial Thrombus in a Rat Ischemic Stroke Model. Stroke, 2010, 41, 1271-1277.	2.0	52
68	Fibrin-Targeted PET Probes for the Detection of Thrombi. Molecular Pharmaceutics, 2013, 10, 1100-1110.	4.6	51
69	Strategies for the Preparation of Bifunctional Gadolinium(III) Chelators. Current Organic Synthesis, 2011, 8, 535-565.	1.3	51
70	Bioorthogonal Fluorophore Linked DFOâ€"Technology Enabling Facile Chelator Quantification and Multimodal Imaging of Antibodies. Bioconjugate Chemistry, 2016, 27, 257-263.	3.6	50
71	Optimization of a Collagen-Targeted PET Probe for Molecular Imaging of Pulmonary Fibrosis. Journal of Nuclear Medicine, 2017, 58, 1991-1996.	5.0	50
72	Gadofosveset-Enhanced Magnetic Resonance Imaging of Human Carotid Atherosclerotic Plaques. Investigative Radiology, 2010, 45, 275-281.	6.2	47

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73	Gadolinium-binding helixâ€“turnâ€“helix peptides: DNA-dependent MRI contrast agents. Chemical Communications, 2003, , 2574-2575.	4.1	46
74	Molecular magnetic resonance imaging accurately measures the antifibrotic effect of EDPâ€305, a novel farnesoid X receptor agonist. Hepatology Communications, 2018, 2, 821-835.	4.3	46
75	Selectivity of Potentially Hexadentate Amine Phenols for Ga3+and In3+in Aqueous Solutionâ€‚â€¡. Inorganic Chemistry, 1996, 35, 715-724.	4.0	45
76	Tightening the Hydrophobic Belt:Â Effects of Backbone and Donor Group Variation on Podand Ligand Complexes of the Lanthanides. Inorganic Chemistry, 1998, 37, 1637-1647.	4.0	45
77	Gadolinium-based contrast agents in pediatric magnetic resonance imaging. Pediatric Radiology, 2017, 47, 507-521.	2.0	45
78	Imaging the Vascular Bone Marrow Niche During Inflammatory Stress. Circulation Research, 2018, 123, 415-427.	4.5	45
79	Tumor Contrast Enhancement and Whole-Body Elimination of the Manganese-Based Magnetic Resonance Imaging Contrast Agent Mn-PyC3A. Investigative Radiology, 2019, 54, 697-703.	6.2	45
80	Is Macrocycle a Synonym for Kinetic Inertness in Gd(III) Complexes? Effect of Coordinating and Noncoordinating Substituents on Inertness and Relaxivity of Gd(III) Chelates with DO3A-like Ligands. Inorganic Chemistry, 2013, 52, 4084-4096.	4.0	44
81	Combined magnetic resonance elastography and collagen molecular magnetic resonance imaging accurately stage liver fibrosis in a rat model. Hepatology, 2017, 65, 1015-1025.	7.3	43
82	Prolonged cenicriviroc therapy reduces hepatic fibrosis despite steatohepatitis in a dietâ€induced mouse model of nonalcoholic steatohepatitis. Hepatology Communications, 2018, 2, 529-545.	4.3	43
83	Molecular Probes for Imaging Fibrosis and Fibrogenesis. Chemistry - A European Journal, 2019, 25, 1128-1141.	3.3	43
84	CM-101: Type I Collagenâ€“targeted MR Imaging Probe for Detection of Liver Fibrosis. Radiology, 2018, 287, 581-589.	7.3	43
85	Probing the Water Coordination of Protein-Targeted MRI Contrast Agents by Pulsed ENDOR Spectroscopy. ChemPhysChem, 2005, 6, 2570-2577.	2.1	42
86	Multisite Thrombus Imaging and Fibrin Content Estimation With a Single Whole-Body PET Scan in Rats. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2114-2121.	2.4	42
87	Tripodal Aminophenolate Ligand Complexes of Aluminum(III), Gallium(III), and Indium(III) in Water. Inorganic Chemistry, 1997, 36, 236-248.	4.0	41
88	Structure-Relaxivity Relationships among Targeted MR Contrast Agents. European Journal of Inorganic Chemistry, 2012, 2012, 1916-1923.	2.0	41
89	In Vivo Molecular Imaging of Thrombosis and Thrombolysis Using a Fibrin-Binding Positron Emission Tomographic Probe. Circulation: Cardiovascular Imaging, 2014, 7, 697-705.	2.6	41
90	Molecular Magnetic Resonance Imaging of Lung Fibrogenesis with an Oxyamineâ€Based Probe. Angewandte Chemie - International Edition, 2017, 56, 9825-9828.	13.8	41

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91	Water exchange in lanthanide complexes for MRI applications. Lessons learned over the last 25 years. Dalton Transactions, 2019, 48, 11161-11180.	3.3	41
92	Type I Collagenâ€“targeted Positron Emission Tomography Imaging in Idiopathic Pulmonary Fibrosis: First-in-Human Studies. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 258-261.	5.6	41
93	On the philosophy of optimizing contrast agents. An analysis of 1H NMRD profiles and ESR lineshapes of the Gd(III)complex MS-325+HSA. Journal of Magnetic Resonance, 2004, 167, 147-160.	2.1	40
94	[Gd(CyPic3A)(H2O)2]â^': a stable, bis(aquated) and high-relaxivity Gd(iii) complex. Chemical Communications, 2013, 49, 8060.	4.1	40
95	Pycupâ€"A Bifunctional, Cage-like Ligand for ⁶⁴Cu Radiolabeling. Molecular Pharmaceutics, 2014, 11, 617-629.	4.6	40
96	Peptide-based fibrin-targeting probes for thrombus imaging. Dalton Transactions, 2017, 46, 14488-14508.	3.3	37
97	Effect of Pyridyl Donors in the Chelation of Aluminum(III), Gallium(III), and Indium(III). Inorganic Chemistry, 1997, 36, 1306-1315.	4.0	36
98	Targeted probes for cardiovascular MRI. Future Medicinal Chemistry, 2010, 2, 451-470.	2.3	36
99	Cationic Lanthanide Complexes of N,Nâ€˜-Bis(2-pyridylmethyl)ethylenediamine-N,Nâ€˜-diacetic Acid (H2bped). Inorganic Chemistry, 1997, 36, 1316-1321.	4.0	35
100	When are Two Waters Worse Than One? Doubling the Hydration Number of a Gd-DTPA Derivative Decreases Relaxivity. Chemistry - A European Journal, 2005, 11, 5866-5874.	3.3	33
101	Molecular MRI of Thrombosis. Current Cardiovascular Imaging Reports, 2011, 4, 77-84.	0.6	33
102	Discrete Bimodal Probes for Thrombus Imaging. Journal of the American Chemical Society, 2012, 134, 10799-10802.	13.7	33
103	Improving the reactivity of hydrazine-bearing MRI probes for in vivo imaging of lung fibrogenesis. Chemical Science, 2020, 11, 224-231.	7.4	33
104	Serum Albumin Targeted, pHâ€Dependent Magnetic Resonance Relaxation Agents. Chemistry - A European Journal, 2012, 18, 3675-3686.	3.3	32
105	Imaging Cardiovascular and Lung Macrophages With the Positron Emission Tomography Sensor ⁶⁴ Cu-Macrin in Mice, Rabbits, and Pigs. Circulation: Cardiovascular Imaging, 2020, 13, e010586.	2.6	32
106	Diagnostic Accuracy of Endobronchial Optical Coherence Tomography for the Microscopic Diagnosis of Usual Interstitial Pneumonia. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1164-1179.	5.6	32
107	Bone marrow endothelial dysfunction promotes myeloid cell expansion in cardiovascular disease. , 2022, 1, 28-44.		32
108	A lysine walk to high relaxivity collagen-targeted MRI contrast agents. Chemical Communications, 2009, , 430-432.	4.1	31

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109	Structureâ€“Relaxivity Relationships of Serum Albumin Targeted MRI Probes Based on a Single Amino Acid Gd Complex. Journal of Medicinal Chemistry, 2013, 56, 1782-1786.	6.4	31
110	Development of a bone-targeted pH-sensitive liposomal formulation containing doxorubicin: physicochemical characterization, cytotoxicity, and biodistribution evaluation in a mouse model of bone metastasis. International Journal of Nanomedicine, 2016, Volume 11, 3737-3751.	6.7	31
111	Structural, Kinetic, and Thermodynamic Characterization of the Interconverting Isomers of MS-325, a Gadolinium(III)-Based Magnetic Resonance Angiography Contrast Agent. Inorganic Chemistry, 2007, 46, 6621-6631.	4.0	30
112	Noninvasive Biomarkers of Liver Fibrosis: Clinical Applications and Future Directions. Current Pathobiology Reports, 2014, 2, 245-256.	3.4	30
113	Molecular MR imaging of fibrosis in a mouse model of pancreatic cancer. Scientific Reports, 2017, 7, 8114.	3.3	30
114	Laser-assisted delivery of synergistic combination chemotherapy in in vivo skin. Journal of Controlled Release, 2018, 275, 242-253.	9.9	30
115	Molecular Imaging of Fibrin in a Breast Cancer Xenograft Mouse Model. Investigative Radiology, 2012, 47, 553-558.	6.2	29
116	The farnesoid X receptor agonist EDPâ€305 reduces interstitial renal fibrosis in a mouse model of unilateral ureteral obstruction. FASEB Journal, 2019, 33, 7103-7112.	0.5	29
117	Fibrotic Response to Neoadjuvant Therapy Predicts Survival in Pancreatic Cancer and Is Measurable with Collagen-Targeted Molecular MRI. Clinical Cancer Research, 2020, 26, 5007-5018.	7.0	29
118	An extreme water exchange rate: the europium(II) aqua ion. Chemical Communications, 1997, , 2147-2148.	4.1	28
119	Determination of the Hydration Number of Gadolinium(III) Complexes by High-Field Pulsed17O ENDOR Spectroscopy. ChemPhysChem, 2006, 7, 1590-1597.	2.1	28
120	Heteroditopic Binding of Magnetic Resonance Contrast Agents for Increased Relaxivity. Angewandte Chemie - International Edition, 2011, 50, 2621-2624.	13.8	28
121	Gadolinium-Free Contrast Agents for Magnetic Resonance Imaging of the Central Nervous System. ACS Chemical Neuroscience, 2018, 9, 395-397.	3.5	28
122	Evidence for weak protein binding of commercial extracellular gadolinium contrast agents. Magnetic Resonance in Medicine, 2010, 63, 609-616.	3.0	27
123	Gadofosveset-enhanced lung magnetic resonance imaging to detect ongoing vascular leak in pulmonary fibrosis. European Respiratory Journal, 2018, 51, 1800171.	6.7	27
124	Advances in functional and molecular MRI technologies in chronic liver diseases. Journal of Hepatology, 2020, 73, 1241-1254.	3.7	27
125	The Effect of the Amide Substituent on the Biodistribution and Tolerance of Lanthanide(III) DOTA-Tetraamide Derivatives. Investigative Radiology, 2008, 43, 861-870.	6.2	26
126	Effect of Chelate Type and Radioisotope on the Imaging Efficacy of 4 Fibrin-Specific PET Probes. Journal of Nuclear Medicine, 2014, 55, 1157-1163.	5.0	25

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127	Molecular MR Contrast Agents. Investigative Radiology, 2021, 56, 20-34.	6.2	25
128	Whole brain mapping of water pools and molecular dynamics with rotating frame MR relaxation using gradient modulated low-power adiabatic pulses. NeuroImage, 2014, 89, 92-109.	4.2	24
129	Radiation Dosimetry of the Fibrin-Binding Probe ⁶⁴Cu-FBP8 and Its Feasibility for PET Imaging of Deep Vein Thrombosis and Pulmonary Embolism in Rats. Journal of Nuclear Medicine, 2015, 56, 1088-1093.	5.0	24
130	Positron Emission Tomographyâ€“Magnetic Resonance Imaging Pharmacokinetics, In Vivo Biodistribution, and Whole-Body Elimination of Mn-PyC3A. Investigative Radiology, 2021, 56, 261-270.	6.2	24
131	Gd(DOTAlaP): Exploring the Boundaries of Fast Water Exchange in Gadolinium-Based Magnetic Resonance Imaging Contrast Agents. Inorganic Chemistry, 2014, 53, 6985-6994.	4.0	23
132	High-resolution Imaging of Myeloperoxidase Activity Sensors in Human Cerebrovascular Disease. Scientific Reports, 2018, 8, 7687.	3.3	23
133	⁶⁸Ga-NODAGA-Indole: An Allysine-Reactive Positron Emission Tomography Probe for Molecular Imaging of Pulmonary Fibrogenesis. Journal of the American Chemical Society, 2019, 141, 5593-5596.	13.7	23
134	Yttriumâ€86 Is a Positron Emitting Surrogate of Gadolinium for Noninvasive Quantification of Wholeâ€Body Distribution of Gadoliniumâ€Based Contrast Agents. Angewandte Chemie - International Edition, 2020, 59, 1474-1478.	13.8	23
135	Activation and Retention: A Magnetic Resonance Probe for the Detection of Acute Thrombosis. Angewandte Chemie - International Edition, 2014, 53, 1140-1143.	13.8	22
136	Advanced MRI of Liver Fibrosis and Treatment Response in a Rat Model of Nonalcoholic Steatohepatitis. Radiology, 2020, 296, 67-75.	7.3	22
137	Effect of peptide-chelate architecture on the metabolic stability of peptide-based MRI contrast agents. New Journal of Chemistry, 2010, 34, 611.	2.8	21
138	Multimodal Molecular Imaging Reveals High Target Uptake and Specificity of ¹¹¹In- and ⁶⁸Ga-Labeled Fibrin-Binding Probes for Thrombus Detection in Rats. Journal of Nuclear Medicine, 2015, 56, 1587-1592.	5.0	21
139	Intramolecular Hydrogen Bonding Restricts Gdâ€“Aquaâ€Ligand Dynamics. Angewandte Chemie - International Edition, 2017, 56, 5603-5606.	13.8	19
140	Evaluation of antitumor activity and cardiac toxicity of a bone-targeted ph-sensitive liposomal formulation in a bone metastasis tumor model in mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1693-1701.	3.3	19
141	Peptide Optimization and Conjugation Strategies in the Development of Molecularly Targeted Magnetic Resonance Imaging Contrast Agents. Methods in Molecular Biology, 2014, 1088, 185-211.	0.9	18
142	Peroxidase Sensitive Amplifiable Probe for Molecular Magnetic Resonance Imaging of Pulmonary Inflammation. ACS Sensors, 2019, 4, 2412-2419.	7.8	17
143	Rational Ligand Design Enables pH Control over Aqueous Iron Magnetostructural Dynamics and Relaxometric Properties. Inorganic Chemistry, 2020, 59, 17712-17721.	4.0	16
144	Probing the Structureâ€“Relaxivity Relationship of Bis-hydrated Gd(DOTAla) Derivatives. Inorganic Chemistry, 2015, 54, 2403-2410.	4.0	15

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145	Gd₃TCAS₂: An Aquated Gd³⁺-Thiacalix[4]arene Sandwich Cluster with Extremely Slow Ligand Substitution Kinetics. Inorganic Chemistry, 2016, 55, 4000-4005.	4.0	15
146	Molecular Magnetic Resonance Imaging of Fibrin Deposition in the Liver as an Indicator of Tissue Injury and Inflammation. Investigative Radiology, 2020, 55, 209-216.	6.2	15
147	Evaluation of the Diagnostic Performance of Positron Emission Tomography/Magnetic Resonance for the Diagnosis of Liver Metastases. Investigative Radiology, 2021, 56, 621-628.	6.2	15
148	High sensitivity HPLC method for determination of the allysine concentration in tissue by use of a naphthol derivative. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1064, 7-13.	2.3	14
149	Enzyme-Activated Gd(3+) Magnetic Resonance Imaging Contrast Agents with a Prominent Receptor-Induced Magnetization Enhancement We thank Dr. Shrikumar Nair for helpful discussions.. Angewandte Chemie - International Edition, 2001, 40, 2903-2906.	13.8	14
150	Novel Imaging Approaches in Systemic Sclerosis-Associated Interstitial Lung Disease. Current Rheumatology Reports, 2019, 21, 25.	4.7	13
151	Noninvasive quantification of fibrosis in skeletal and cardiac muscle in mdx mice using EP3533 enhanced magnetic resonance imaging. Magnetic Resonance in Medicine, 2019, 81, 2728-2735.	3.0	12
152	Detection and Characterization of Thrombosis in Humans Using Fibrin-Targeted Positron Emission Tomography and Magnetic Resonance. JACC: Cardiovascular Imaging, 2022, 15, 504-515.	5.3	12
153	A High Relaxivity Magnetic Resonance Imaging Contrast Agent Targeted to Serum Albumin. Australian Journal of Chemistry, 2008, 61, 682.	0.9	11
154	Toward Molecular Imaging of Intestinal Pathology. Inflammatory Bowel Diseases, 2020, 26, 1470-1484.	1.9	11
155	Molecular MRI of atherosclerotic plaque with targeted contrast agents. Current Cardiovascular Imaging Reports, 2009, 2, 87-94.	0.6	10
156	Free-breathing dynamic contrast-enhanced magnetic resonance of interstitial lung fibrosis. Magnetic Resonance Imaging, 2020, 69, 16-21.	1.8	9
157	A Chelate-Free Nano-Platform for Incorporation of Diagnostic and Therapeutic Isotopes . International Journal of Nanomedicine, 2020, Volume 15, 31-47.	6.7	9
158	Peroxidasin Deficiency Re-programs Macrophages Toward Pro-fibrolysis Function and Promotes Collagen Resolution in Liver. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 1483-1509.	4.5	9
159	Prediction of Gd(III) complex thermodynamic stability. Coordination Chemistry Reviews, 2022, 467, 214606.	18.8	9
160	Molecular MRI of the Cardiovascular System in the Post-NSF Era. Current Cardiovascular Imaging Reports, 2013, 6, 61-68.	0.6	8
161	Dynamic contrast-enhanced magnetic resonance imaging of the lung reveals important pathobiology in idiopathic pulmonary fibrosis. ERJ Open Research, 2021, 7, 00907-2020.	2.6	8
162	High-Frequency EPR and ENDOR Characterization of MRI Contrast Agents. Biological Magnetic Resonance, 2009, , 581-621.	0.4	7

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163	¹H chemical shift magnetic resonance imaging probes with high sensitivity for multiplex imaging. Contrast Media and Molecular Imaging, 2012, 7, 276-279.	0.8	7
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