

Priv-Dozâ€™Dr Goran Angelovski

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,510
citations

331670

21
h-index

361022

35
g-index

74
all docs

74
docs citations

74
times ranked

1343
citing authors

#	ARTICLE	IF	CITATIONS
1	What We Can Really Do with Bioresponsive MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7038-7046.	13.8	87
2	Smart Magnetic Resonance Imaging Agents that Sense Extracellular Calcium Fluctuations. <i>ChemBioChem</i> , 2008, 9, 1729-1734.	2.6	84
3	QUESP and QUEST revisited â€“ fast and accurate quantitative CEST experiments. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1708-1721.	3.0	82
4	Facile Synthesis and Relaxation Properties of Novel Bispolyazamacrocyclic Gd ³⁺ Complexes: An Attempt towards Calcium-Sensitive MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2008, 47, 1370-1381.	4.0	65
5	Towards extracellular Ca ²⁺ sensing by MRI: synthesis and calcium-dependent ¹ H and ¹⁷ O relaxation studies of two novel bismacrocyclic Gd ³⁺ complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 13, 35-46.	2.6	62
6	Synthesis and characterization of a smart contrast agent sensitive to calcium. <i>Chemical Communications</i> , 2008, , 3444.	4.1	56
7	Calcium-responsive paramagnetic CEST agents. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1097-1105.	3.0	52
8	Dualâ€“Frequency Calciumâ€“Responsive MRI Agents. <i>Chemistry - A European Journal</i> , 2014, 20, 7351-7362.	3.3	44
9	MRI Sensing of Neurotransmitters with a Crown Ether Appended Gd ³⁺ Complex. <i>ACS Chemical Neuroscience</i> , 2015, 6, 219-225.	3.5	43
10	Ultrasmall Nanoplatfoms as Calciumâ€“Responsive Contrast Agents for Magnetic Resonance Imaging. <i>Small</i> , 2015, 11, 4900-4909.	10.0	40
11	Strategies for sensing neurotransmitters with responsive MRI contrast agents. <i>Chemical Society Reviews</i> , 2017, 46, 324-336.	38.1	38
12	Early detection and monitoring of cerebral ischemia using calcium-responsive MRI probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20666-20671.	7.1	37
13	Heading toward Macromolecular and Nanosized Bioresponsive MRI Probes for Successful Functional Imaging. <i>Accounts of Chemical Research</i> , 2017, 50, 2215-2224.	15.6	36
14	Synthetic strategies for preparation of cyclen-based MRI contrast agents. <i>Tetrahedron Letters</i> , 2015, 56, 759-765.	1.4	31
15	The use of yttrium in medical imaging and therapy: historical background and future perspectives. <i>Chemical Society Reviews</i> , 2020, 49, 6169-6185.	38.1	30
16	Investigation of a Calcium-Responsive Contrast Agent in Cellular Model Systems: Feasibility for Use as a Smart Molecular Probe in Functional MRI. <i>ACS Chemical Neuroscience</i> , 2014, 5, 360-369.	3.5	29
17	Gd ³⁺ -Based Magnetic Resonance Imaging Contrast Agent Responsive to Zn ²⁺ . <i>Inorganic Chemistry</i> , 2015, 54, 10342-10350.	4.0	29
18	Dendrimeric calcium-responsive MRI contrast agents with slow in vivo diffusion. <i>Chemical Communications</i> , 2015, 51, 2782-2785.	4.1	28

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19	In Vivo Characterization of a Smart MRI Agent That Displays an Inverse Response to Calcium Concentration. ACS Chemical Neuroscience, 2010, 1, 819-828.	3.5	27
20	Lanthanide Complexes with ¹ H paraCEST and ¹⁹ F Response for Magnetic Resonance Imaging Applications. Inorganic Chemistry, 2019, 58, 7571-7583.	4.0	25
21	Diffusion properties of conventional and calcium-sensitive MRI contrast agents in the rat cerebral cortex. Contrast Media and Molecular Imaging, 2014, 9, 71-82.	0.8	22
22	Paramagnetic lanthanide chelates for multicontrast MRI. Chemical Communications, 2016, 52, 9224-9227.	4.1	22
23	Reinforced Ni(II)-cyclam derivatives as dual ¹ H/ ¹⁹ F MRI probes. Chemical Communications, 2019, 55, 4115-4118.	4.1	22
24	Macrocyclic Gd ³⁺ Complexes with Pendant Crown Ethers Designed for Binding Zwitterionic Neurotransmitters. Chemistry - A European Journal, 2015, 21, 11226-11237.	3.3	21
25	Ratiometric Method for Rapid Monitoring of Biological Processes Using Bioresponsive MRI Contrast Agents. ACS Sensors, 2016, 1, 483-487.	7.8	21
26	Gadolinium(III)-Based Dual ¹ H/ ¹⁹ F Magnetic Resonance Imaging Probes. Chemistry - A European Journal, 2019, 25, 4782-4792.	3.3	21
27	A ratiometric ¹⁹ F MR-based method for the quantification of Ca ²⁺ using responsive paramagnetic probes. Chemical Communications, 2020, 56, 3492-3495.	4.1	21
28	A Rapid and Reliable Assay for Regioselectivity Using Fluorescence Spectroscopy. Advanced Synthesis and Catalysis, 2006, 348, 1193-1199.	4.3	20
29	Cation-Responsive MRI Contrast Agents Based on Gadolinium(III). Current Inorganic Chemistry, 2011, 1, 76-90.	0.2	20
30	Innovative Design of Ca-Sensitive Paramagnetic Liposomes Results in an Unprecedented Increase in Longitudinal Relaxivity. Biomacromolecules, 2016, 17, 1303-1311.	5.4	20
31	Synthesis and characterization of lanthanide complexes of DO3A-alkylphosphonates. Dalton Transactions, 2007, , 5260.	3.3	19
32	Synthesis and characterization of pH-sensitive, biotinylated MRI contrast agents and their conjugates with avidin. Organic and Biomolecular Chemistry, 2013, 11, 1294-1305.	2.8	19
33	Human Serum Albumin Labelled with Sterically-Hindered Nitroxides as Potential MRI Contrast Agents. Molecules, 2020, 25, 1709.	3.8	19
34	Highly Potent MRI Contrast Agent Displaying Outstanding Sensitivity to Zinc Ions. Angewandte Chemie - International Edition, 2021, 60, 5734-5738.	13.8	19
35	An aryl-phosphonate appended macrocyclic platform for lanthanide based bimodal imaging agents. Chemical Communications, 2011, 47, 11534.	4.1	18
36	Aryl-Phosphonate Lanthanide Complexes and Their Fluorinated Derivatives: Investigation of Their Unusual Relaxometric Behavior and Potential Application as Dual Frequency ¹ H/ ¹⁹ F MRI Probes. Chemistry - A European Journal, 2013, 19, 11644-11660.	3.3	18

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37	Coordination Properties of GdDO3A-Based Model Compounds of Bioresponsive MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2018, 57, 5973-5986.	4.0	18
38	Structure-related variable responses of calcium sensitive MRI probes. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5816.	2.8	17
39	Spectrally Undiscerned Isomers Might Lead to Erroneous Determination of Water Exchange Rates of paraCEST Eu(III) Agents. <i>Inorganic Chemistry</i> , 2017, 56, 7737-7745.	4.0	17
40	Influence of Calcium-Induced Aggregation on the Sensitivity of Aminobis(methylenephosphonate)-Containing Potential MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2011, 50, 6472-6481.	4.0	16
41	Unexpected Trends in the Stability and Dissociation Kinetics of Lanthanide(III) Complexes with Cyclen-Based Ligands across the Lanthanide Series. <i>Inorganic Chemistry</i> , 2020, 59, 8184-8195.	4.0	15
42	Toward inert paramagnetic Ni(II)-based chemical exchange saturation transfer MRI agents. <i>Dalton Transactions</i> , 2017, 46, 15095-15106.	3.3	14
43	Combination of bioresponsive chelates and perfluorinated lipid nanoparticles enables <i>in vivo</i> MRI probe quantification. <i>Chemical Communications</i> , 2020, 56, 9433-9436.	4.1	14
44	Inert macrocyclic Eu ³⁺ complex with affirmative paraCEST features. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2274-2286.	6.0	14
45	Paramagnetic chemical exchange saturation transfer agents and their perspectives for application in magnetic resonance imaging. <i>International Reviews in Physical Chemistry</i> , 2021, 40, 51-79.	2.3	14
46	Synergy of Key Properties Promotes Dendrimer Conjugates as Prospective Ratiometric Bioresponsive Magnetic Resonance Imaging Probes. <i>Biomacromolecules</i> , 2018, 19, 4668-4676.	5.4	13
47	Toward MRI and Optical Detection of Zwitterionic Neurotransmitters: Near-Infrared Luminescent and Magnetic Properties of Macrocyclic Lanthanide(III) Complexes Appended with a Crown Ether and a Benzophenone Chromophore. <i>Inorganic Chemistry</i> , 2019, 58, 13619-13630.	4.0	11
48	Relaxometric, Thermodynamic and Kinetic Studies of Lanthanide(III) Complexes of DO3A-Based Propylphosphonates. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3298-3306.	2.0	8
49	A straightforward and convenient pathway for the synthesis of functional bismacrocyclic ligands. <i>Tetrahedron Letters</i> , 2011, 52, 1619-1622.	1.4	7
50	Synthesis and characterisation of bismacrocyclic DO3A-amide derivatives – an approach towards metal-responsive PARACEST agents. <i>Dalton Transactions</i> , 2016, 45, 6555-6565.	3.3	7
51	Europium(III) Macrocyclic Chelates Appended with Tyrosine-based Chromophores and Di(2-picolyl)amine-based Receptors: Turn-On Luminescent Chemosensors Selective to Zinc(II) Ions. <i>ChemPlusChem</i> , 2020, 85, 806-814.	2.8	7
52	Dendrimeric calcium-sensitive MRI probes: the first low-field relaxometric study. <i>Journal of Materials Chemistry B</i> , 2020, 8, 969-979.	5.8	7
53	Stable and inert macrocyclic cobalt(II) and nickel(II) complexes with paraCEST response. <i>Dalton Transactions</i> , 2022, 51, 1580-1593.	3.3	7
54	A low-molecular-weight ditopic MRI probe for ratiometric sensing of zwitterionic amino acid neurotransmitters. <i>Chemical Communications</i> , 2019, 55, 11924-11927.	4.1	6

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55	Solid-Phase-Supported Approach for the Preparation of Bioresponsive and Multifunctional MRI Probes. <i>Organic Letters</i> , 2019, 21, 5378-5382.	4.6	5
56	Solid phase synthesis in the development of magnetic resonance imaging probes. <i>Organic Chemistry Frontiers</i> , 2020, 7, 4121-4141.	4.5	5
57	Lanthanide(III) Complexes Based on an 18-Membered Macrocyclic Containing Acetamide Pendants. Structural Characterization and paraCEST Properties. <i>Inorganic Chemistry</i> , 2021, 60, 1902-1914.	4.0	5
58	The effects of nitroxide structure upon 1H Overhauser dynamic nuclear polarization efficacy at ultralow-field. <i>Journal of Chemical Physics</i> , 2021, 155, 144203.	3.0	5
59	Synthesis and Characterization of a Biotinylated Multivalent Targeted Contrast Agent. <i>ChemPlusChem</i> , 2015, 80, 612-622.	2.8	4
60	Preparation and <i>In Vitro</i> ; Characterization of Dendrimer-based Contrast Agents for Magnetic Resonance Imaging. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4
61	Biosensitive Kontrastmittel für die Magnetresonanztomographie – was wir mit ihnen wirklich tun können. <i>Angewandte Chemie</i> , 2016, 128, 7152-7161.	2.0	4
62	Investigations into the effects of linker length elongation on the behaviour of calcium-responsive MRI probes. <i>Dalton Transactions</i> , 2019, 48, 13546-13554.	3.3	4
63	RGD-Peptide Functionalization Affects the <i>In Vivo</i> Diffusion of a Responsive Trimeric MRI Contrast Agent through Interactions with Integrins. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7565-7574.	6.4	4
64	In-depth Study of a Novel Class of Ditopic Gadolinium(III)-based MRI Probes Sensitive to Zwitterionic Neurotransmitters. <i>Frontiers in Chemistry</i> , 2019, 7, 490.	3.6	3
65	Translating a Low-Molecular-Weight MRI Probe Sensitive to Amino Acid Neurotransmitters into a PAMAM Dendrimer Conjugate: The Impact of Conjugation. <i>ChemNanoMat</i> , 2019, 5, 1456-1460.	2.8	2
66	4 Metal Ion Complexes in Paramagnetic Chemical Exchange Saturation Transfer (ParaCEST). , 2021, , 101-136.		2
67	Exploring the hyperpolarisation of EGTA-based ligands using SABRE. <i>Dalton Transactions</i> , 2021, 50, 2448-2461.	3.3	2
68	Macrocyclic Chelates Bridged by a Diaza-Crown Ether: Towards Multinuclear Bimodal Molecular Imaging Probes. <i>Molecules</i> , 2020, 25, 5019.	3.8	1
69	Highly Potent MRI Contrast Agent Displaying Outstanding Sensitivity to Zinc Ions. <i>Angewandte Chemie</i> , 2021, 133, 5798-5802.	2.0	1
70	Europium(III) Macrocyclic Chelates Appended with Tyrosine-based Chromophores and Di(2-picolyl)amine-based Receptors: Turn-On Luminescent Chemosensors Selective to Zinc(II) Ions. <i>ChemPlusChem</i> , 2020, 85, 796-796.	2.8	0