Tatjana VerbiÄ

List of Publications by Year
in descending order

77	1,606	331670 21	345221 36
papers	citations	h-index	g-index

81	81	81	2151
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	What We Can Really Do with Bioresponsive MRI Contrast Agents. Angewandte Chemie - International Edition, 2016, 55, 7038-7046.	13.8	87
2	AGuIX^{Â®} from bench to bedsideâ€"Transfer of an ultrasmall theranostic gadolinium-based nanoparticle to clinical medicine. British Journal of Radiology, 2019, 92, 20180365.	2.2	86
3	Smart Magnetic Resonance Imaging Agents that Sense Extracellular Calcium Fluctuations. ChemBioChem, 2008, 9, 1729-1734.	2.6	84
4	QUESP and QUEST revisited â€“ fast and accurate quantitative CEST experiments. Magnetic Resonance in Medicine, 2018, 79, 1708-1721.	3.0	82
5	Equilibrium solubility measurement of ionizable drugs â€“ consensus recommendations for improving data quality. ADMET and DMPK, 2016, 4, 117.	2.1	78
6	Towards extracellular Ca2+ sensing by MRI: synthesis and calcium-dependent 1H and 17O relaxation studies of two novel bismacrocyclic Gd3+ complexes. Journal of Biological Inorganic Chemistry, 2007, 13, 35-46.	2.6	62
7	Tetraoxane Antimalarials and Their Reaction with Fe(II). Journal of Medicinal Chemistry, 2006, 49, 3790-3799.	6.4	52
8	Calcium-responsive paramagnetic CEST agents. Bioorganic and Medicinal Chemistry, 2011, 19, 1097-1105.	3.0	52
9	Anthelmintic Activity In Vivo of Epiisopiloturine against Juvenile and Adult Worms of Schistosoma mansoni. PLoS Neglected Tropical Diseases, 2015, 9, e0003656.	3.0	51
10	Dualâ€Frequency Calciumâ€Responsive MRI Agents. Chemistry - A European Journal, 2014, 20, 7351-7362.	3.3	44
11	Ultrasmall Nanoplatforms as Calciumâ€Responsive Contrast Agents for Magnetic Resonance Imaging. Small, 2015, 11, 4900-4909.	10.0	40
12	Strategies for sensing neurotransmitters with responsive MRI contrast agents. Chemical Society Reviews, 2017, 46, 324-336.	38.1	38
13	Early detection and monitoring of cerebral ischemia using calcium-responsive MRI probes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20666-20671.	7.1	37
14	Heading toward Macromolecular and Nanosized Bioresponsive MRI Probes for Successful Functional Imaging. Accounts of Chemical Research, 2017, 50, 2215-2224.	15.6	36
15	Reinvestigating Old Pharmacophores: Are 4-Aminoquinolines and Tetraoxanes Potential Two-Stage Antimalarials?. Journal of Medicinal Chemistry, 2016, 59, 264-281.	6.4	32
16	Study of ellagic acid electro-oxidation mechanism. Monatshefte FÃ¼r Chemie, 2013, 144, 121-128.	1.8	31
17	Synthetic strategies for preparation of cyclen-based MRI contrast agents. Tetrahedron Letters, 2015, 56, 759-765.	1.4	31
18	Zn(<scp>ii</scp>) complex with 2-quinolinecarboxaldehyde selenosemicarbazone: synthesis, structure, interaction studies with DNA/HSA, molecular docking and caspase-8 and -9 independent apoptose induction. RSC Advances, 2015, 5, 95191-95211.	3.6	31

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19	Investigation of a Calcium-Responsive Contrast Agent in Cellular Model Systems: Feasibility for Use as a Smart Molecular Probe in Functional MRI. ACS Chemical Neuroscience, 2014, 5, 360-369.	3.5	29
20	Lanthanide Complexes with 1H paraCEST and 19F Response for Magnetic Resonance Imaging Applications. Inorganic Chemistry, 2019, 58, 7571-7583.	4.0	25
21	Human serum albumin binding of certain antimalarials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 128-139.	3.9	24
22	A novel method of molecular imprinting applied to the template cholesterol. Talanta, 2020, 217, 121075.	5.5	23
23	Macrocyclic Gd³⁺ Complexes with Pendant Crown Ethers Designed for Binding Zwitterionic Neurotransmitters. Chemistry - A European Journal, 2015, 21, 11226-11237.	3.3	21
24	Investigation into novel thiophene- and furan-based 4-amino-7-chloroquinolines afforded antimalarials that cure mice. Bioorganic and Medicinal Chemistry, 2015, 23, 2176-2186.	3.0	21
25	Gadolinium(III)â€Based Dual ¹H/¹⁹F Magnetic Resonance Imaging Probes. Chemistry - A European Journal, 2019, 25, 4782-4792.	3.3	21
26	Solubility-pH profile of desipramine hydrochloride in saline phosphate buffer: Enhanced solubility due to drug-buffer aggregates. European Journal of Pharmaceutical Sciences, 2019, 133, 264-274.	4.0	21
27	A Rapid and Reliable Assay for Regioselectivity Using Fluorescence Spectroscopy. Advanced Synthesis and Catalysis, 2006, 348, 1193-1199.	4.3	20
28	Cation-Responsive MRI Contrast Agents Based on Gadolinium(III). Current Inorganic Chemistry, 2011, 1, 76-90.	0.2	20
29	Innovative Design of Ca-Sensitive Paramagnetic Liposomes Results in an Unprecedented Increase in Longitudinal Relaxivity. Biomacromolecules, 2016, 17, 1303-1311.	5.4	20
30	Synthesis and characterization of lanthanide complexes of DO3A-alkylphosphonates. Dalton Transactions, 2007, , 5260.	3.3	19
31	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
32	Human Serum Albumin Labelled with Sterically-Hindered Nitroxides as Potential MRI Contrast Agents. Molecules, 2020, 25, 1709.	3.8	19
33	Highly Potent MRI Contrast Agent Displaying Outstanding Sensitivity to Zinc Ions. Angewandte Chemie - International Edition, 2021, 60, 5734-5738.	13.8	19
34	5-Aryl-1H-pyrazole-3-carboxylic acids as selective inhibitors of human carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 4649-4659.	3.0	18
35	Coordination Properties of GdDO3A-Based Model Compounds of Bioresponsive MRI Contrast Agents. Inorganic Chemistry, 2018, 57, 5973-5986.	4.0	18
36	Spectrally Undiscerned Isomers Might Lead to Erroneous Determination of Water Exchange Rates of paraCEST Eu(III) Agents. Inorganic Chemistry, 2017, 56, 7737-7745.	4.0	17

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37	An LFER study of the protolytic equilibria of 4-aryl-2,4-dioxobutanoic acids in aqueous solutions. Journal of the Serbian Chemical Society, 2007, 72, 1201-1216.	0.8	16
38	Binding capacity of molecularly imprinted polymers and their nonimprinted analogs. Journal of Separation Science, 2015, 38, 4240-4247.	2.5	15
39	Second generation of diazachrysenes: Protection of Ebola virus infected mice and mechanism of action. European Journal of Medicinal Chemistry, 2019, 162, 32-50.	5.5	15
40	Unexpected Trends in the Stability and Dissociation Kinetics of Lanthanide(III) Complexes with Cyclen-Based Ligands across the Lanthanide Series. Inorganic Chemistry, 2020, 59, 8184-8195.	4.0	15
41	Paramagnetic chemical exchange saturation transfer agents and their perspectives for application in magnetic resonance imaging. International Reviews in Physical Chemistry, 2021, 40, 51-79.	2.3	14
42	Aryldiketo Acids Have Antibacterial Activity Against MDR Staphylococcus aureus Strains: Structural Insights Based on Similarity and Molecular Interaction Fields. ChemMedChem, 2009, 4, 1971-1975.	3.2	13
43	Design, synthesis and biological evaluation of novel aryldiketo acids with enhanced antibacterial activity against multidrug resistant bacterial strains. European Journal of Medicinal Chemistry, 2018, 143, 1474-1488.	5.5	13
44	Synergy of Key Properties Promotes Dendrimer Conjugates as Prospective Ratiometric Bioresponsive Magnetic Resonance Imaging Probes. Biomacromolecules, 2018, 19, 4668-4676.	5.4	13
45	Selectivity in analytical chemistry: Two interpretations for univariate methods. Talanta, 2015, 132, 680-684.	5.5	12
46	Correlation between structure, retention, property, and activity of biologically relevant 1,7-bis(aminoalkyl)diazachrysene derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2013, 72, 231-239.	2.8	11
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. Inorganic Chemistry, 2019, 58, 13619-13630.	4.0	11
48	Water soluble Eu(III) complexes of macrocyclic triamide ligands: Structure, stability, luminescence and redox properties. Inorganica Chimica Acta, 2019, 486, 252-260.	2.4	11
49	Synthesis, physicochemical characterization, and TDâ€“DFT calculations of monothiocarbohydrazone derivatives. Structural Chemistry, 2021, 32, 1231-1245.	2.0	9
50	Relaxometric, Thermodynamic and Kinetic Studies of Lanthanide(III) Complexes of DO3Aâ€Based Propylphosphonates. European Journal of Inorganic Chemistry, 2009, 2009, 3298-3306.	2.0	8
51	Synthesis and characterisation of bismacrocyclic DO3A-amide derivatives â€“ an approach towards metal-responsive PARACEST agents. Dalton Transactions, 2016, 45, 6555-6565.	3.3	7
52	New Steroidal 4-Aminoquinolines Antagonize Botulinum Neurotoxin Serotype A in Mouse Embryonic Stem Cell Derived Motor Neurons in Postintoxication Model. Journal of Medicinal Chemistry, 2018, 61, 1595-1608.	6.4	7
53	Europium(III) Macrocyclic Chelates Appended with Tyrosineâ€based Chromophores and Diâ€(2â€picolyl)amineâ€based Receptors: Turnâ€On Luminescent Chemosensors Selective to Zinc(II) Ions. ChemPlusChem, 2020, 85, 806-814.	2.8	7
54	Dendrimeric calcium-sensitive MRI probes: the first low-field relaxometric study. Journal of Materials Chemistry B, 2020, 8, 969-979.	5.8	7

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55	Stable and inert macrocyclic cobalt(<scp>ii</scp>) and nickel(<scp>ii</scp>) complexes with paraCEST response. Dalton Transactions, 2022, 51, 1580-1593.	3.3	7
56	Comparison of the single channel and multichannel (multivariate) concepts of selectivity in analytical chemistry. Talanta, 2015, 139, 40-49.	5.5	6
57	A low-molecular-weight ditopic MRI probe for ratiometric sensing of zwitterionic amino acid neurotransmitters. Chemical Communications, 2019, 55, 11924-11927.	4.1	6
58	A detailed experimental and computational study of monocarbohydrazones. Arabian Journal of Chemistry, 2020, 13, 932-953.	4.9	6
59	Solid phase synthesis in the development of magnetic resonance imaging probes. Organic Chemistry Frontiers, 2020, 7, 4121-4141.	4.5	5
60	Lanthanide(III) Complexes Based on an 18-Membered Macrocycle Containing Acetamide Pendants. Structural Characterization and paraCEST Properties. Inorganic Chemistry, 2021, 60, 1902-1914.	4.0	5
61	Synthesis and Characterization of a Biotinylated Multivalent Targeted Contrast Agent. ChemPlusChem, 2015, 80, 612-622.	2.8	4
62	Preparation and In Vitro Characterization of Dendrimer-based Contrast Agents for Magnetic Resonance Imaging. Journal of Visualized Experiments, 2016, , .	0.3	4
63	RGD-Peptide Functionalization Affects the In Vivo Diffusion of a Responsive Trimeric MRI Contrast Agent through Interactions with Integrins. Journal of Medicinal Chemistry, 2021, 64, 7565-7574.	6.4	4
64	Redox properties of alkyl-substituted 4-aryl-2,4-dioxobutanoic acids. Journal of the Serbian Chemical Society, 2017, 82, 303-316.	0.8	4
65	Study of acid hydrolysis of bromazepam. Canadian Journal of Chemistry, 2004, 82, 1260-1265.	1.1	3
66	The Effect of Phenyl Substituents on 13C NMR Shifts and Metal Ions Binding to 4-Phenyl-2,4-Dioxobutanoic Acid Derivatives. Letters in Organic Chemistry, 2008, 5, 692-699.	0.5	3
67	In-depth Study of a Novel Class of Ditopic Gadolinium(III)-based MRI Probes Sensitive to Zwitterionic Neurotransmitters. Frontiers in Chemistry, 2019, 7, 490.	3.6	3
68	Human Serum Albumin Binding of 2-[(Carboxymethyl)sulfanyl]-4-oxo-4-(4-tert-butylphenyl)butanoic Acid and its Mono-Me Ester. ADMET and DMPK, 2014, 2, .	2.1	3
69	Nortriptyline Hydrochloride Solubility-pH Profiles in a Saline Phosphate Buffer: Drug-Phosphate Complexes and Multiple pH_{max} Domains with a Gibbs Phase Rule â€œSoftâ€•Constraints. Molecular Pharmaceutics, 2022, 19, 710-719.	4.6	3
70	Tautomerism of 4-phenyl-2,4-dioxobutanoic acid. Insights from pH ramping NMR study and quantum chemical calculations. Structural Chemistry, 2018, 29, 423-434.	2.0	2
71	Translating a Lowâ€Molecularâ€Weight MRI Probe Sensitive to Amino Acid Neurotransmitters into a PAMAM Dendrimer Conjugate: The Impact of Conjugation. ChemNanoMat, 2019, 5, 1456-1460.	2.8	2
72	Synthesis and Characterization of Novel 2-Pyridine Mono(thio)carbohydrazones as Promising Antioxidant and Antimicrobial Agents. Experimental and Theoretical Approach. Bulletin of the Chemical Society of Japan, 2022, 95, 185-194.	3.2	2

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73	Macrocyclic Chelates Bridged by a Diaza-Crown Ether: Towards Multinuclear Bimodal Molecular Imaging Probes. Molecules, 2020, 25, 5019.	3.8	1
74	New 4-aminoquinolines as moderate inhibitors of P. falciparum malaria. Journal of the Serbian Chemical Society, 2021, 86, 115-123.	0.8	1
75	Europium(III) Macrocyclic Chelates Appended with Tyrosineâ€based Chromophores and Diâ€(2â€picolyl)amineâ€based Receptors: Turnâ€On Luminescent Chemosensors Selective to Zinc(II) Ions. ChemPlusChem, 2020, 85, 796-796.	2.8	0
76	Applications of biophysical techniques in drug discovery and development. ADMET and DMPK, 2019, 7, 220-221.	2.1	0
77	Highly selective water-compatible molecularly imprinted polymers for benzophenone-4. Journal of the Serbian Chemical Society, 2023, 88, 55-68.	0.8	0