

# Tatjana VerbiÄ

## List of Publications by Year in descending order

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77  
papers

1,606  
citations

331670

21  
h-index

345221

36  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2151  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly selective water-compatible molecularly imprinted polymers for benzophenone-4. <i>Journal of the Serbian Chemical Society</i> , 2023, 88, 55-68.	0.8	0
2	Stable and inert macrocyclic cobalt( <i>II</i> ) and nickel( <i>II</i> ) complexes with paraCEST response. <i>Dalton Transactions</i> , 2022, 51, 1580-1593.	3.3	7
3	Synthesis and Characterization of Novel 2-Pyridine Mono(thio)carbohydrazones as Promising Antioxidant and Antimicrobial Agents. Experimental and Theoretical Approach. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 185-194.	3.2	2
4	Nortriptyline Hydrochloride Solubility-pH Profiles in a Saline Phosphate Buffer: Drug-Phosphate Complexes and Multiple pH <sub>max</sub> Domains with a Gibbs Phase Rule $\Delta G_{\text{soft}}$ Constraints. <i>Molecular Pharmaceutics</i> , 2022, 19, 710-719.	4.6	3
5	Highly Potent MRI Contrast Agent Displaying Outstanding Sensitivity to Zinc Ions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5734-5738.	13.8	19
6	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
7	New 4-aminoquinolines as moderate inhibitors of <i>P. falciparum</i> malaria. <i>Journal of the Serbian Chemical Society</i> , 2021, 86, 115-123.	0.8	1
8	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
9	Synthesis, physicochemical characterization, and TDFT calculations of monothiocarbohydrazone derivatives. <i>Structural Chemistry</i> , 2021, 32, 1231-1245.	2.0	9
10	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
11	A detailed experimental and computational study of monocarbohydrazones. <i>Arabian Journal of Chemistry</i> , 2020, 13, 932-953.	4.9	6
12	Solid phase synthesis in the development of magnetic resonance imaging probes. <i>Organic Chemistry Frontiers</i> , 2020, 7, 4121-4141.	4.5	5
13	Macrocyclic Chelates Bridged by a Diaza-Crown Ether: Towards Multinuclear Bimodal Molecular Imaging Probes. <i>Molecules</i> , 2020, 25, 5019.	3.8	1
14	Europium(III) Macrocyclic Chelates Appended with Tyrosine-based Chromophores and Di(2-picoly)amine-based Receptors: Turn-On Luminescent Chemosensors Selective to Zinc(II) Ions. <i>ChemPlusChem</i> , 2020, 85, 796-796.	2.8	0
15	Europium(III) Macrocyclic Chelates Appended with Tyrosine-based Chromophores and Di(2-picoly)amine-based Receptors: Turn-On Luminescent Chemosensors Selective to Zinc(II) Ions. <i>ChemPlusChem</i> , 2020, 85, 806-814.	2.8	7
16	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
17	A novel method of molecular imprinting applied to the template cholesterol. <i>Talanta</i> , 2020, 217, 121075.	5.5	23
18	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

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19	Human Serum Albumin Labelled with Sterically-Hindered Nitroxides as Potential MRI Contrast Agents. <i>Molecules</i> , 2020, 25, 1709.	3.8	19
20	AGuIX <sup>®</sup> from bench to bedside—Transfer of an ultrasmall theranostic gadolinium-based nanoparticle to clinical medicine. <i>British Journal of Radiology</i> , 2019, 92, 20180365.	2.2	86
21	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
22	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
23	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
24	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
25	Gadolinium(III)-Based Dual <sup>1</sup> H/ <sup>19</sup> F Magnetic Resonance Imaging Probes. <i>Chemistry - A European Journal</i> , 2019, 25, 4782-4792.	3.3	21
26	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
27	Lanthanide Complexes with <sup>1</sup> H paraCEST and <sup>19</sup> F Response for Magnetic Resonance Imaging Applications. <i>Inorganic Chemistry</i> , 2019, 58, 7571-7583.	4.0	25
28	Solubility-pH profile of desipramine hydrochloride in saline phosphate buffer: Enhanced solubility due to drug-buffer aggregates. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 133, 264-274.	4.0	21
29	Water soluble Eu(III) complexes of macrocyclic triamide ligands: Structure, stability, luminescence and redox properties. <i>Inorganica Chimica Acta</i> , 2019, 486, 252-260.	2.4	11
30	Second generation of diazachrysenes: Protection of Ebola virus infected mice and mechanism of action. <i>European Journal of Medicinal Chemistry</i> , 2019, 162, 32-50.	5.5	15
31	Applications of biophysical techniques in drug discovery and development. <i>ADMET and DMPK</i> , 2019, 7, 220-221.	2.1	0
32	New Steroidal 4-Aminoquinolines Antagonize Botulinum Neurotoxin Serotype A in Mouse Embryonic Stem Cell Derived Motor Neurons in Postintoxication Model. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1595-1608.	6.4	7
33	Coordination Properties of GdDO3A-Based Model Compounds of Bioresponsive MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2018, 57, 5973-5986.	4.0	18
34	Tautomerism of 4-phenyl-2,4-dioxobutanoic acid. Insights from pH ramping NMR study and quantum chemical calculations. <i>Structural Chemistry</i> , 2018, 29, 423-434.	2.0	2
35	Human serum albumin binding of certain antimalarials. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 128-139.	3.9	24
36	Design, synthesis and biological evaluation of novel aryldiketo acids with enhanced antibacterial activity against multidrug resistant bacterial strains. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1474-1488.	5.5	13

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37	QUESP and QUEST revisited â€œ fast and accurate quantitative CEST experiments. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1708-1721.	3.0	82
38	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
39	Strategies for sensing neurotransmitters with responsive MRI contrast agents. <i>Chemical Society Reviews</i> , 2017, 46, 324-336.	38.1	38
40	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
41	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
42	Redox properties of alkyl-substituted 4-aryl-2,4-dioxobutanoic acids. <i>Journal of the Serbian Chemical Society</i> , 2017, 82, 303-316.	0.8	4
43	Equilibrium solubility measurement of ionizable drugs â€œ consensus recommendations for improving data quality. <i>ADMET and DMPK</i> , 2016, 4, 117.	2.1	78
44	Preparation and &em>In Vitro&em> Characterization of Dendrimer-based Contrast Agents for Magnetic Resonance Imaging. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4
45	What We Can Really Do with Bioresponsive MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7038-7046.	13.8	87
46	Reinvestigating Old Pharmacophores: Are 4-Aminoquinolines and Tetraoxanes Potential Two-Stage Antimalarials?. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 264-281.	6.4	32
47	Synthesis and characterisation of bismacrocylic DO3A-amide derivatives â€œ an approach towards metal-responsive PARACEST agents. <i>Dalton Transactions</i> , 2016, 45, 6555-6565.	3.3	7
48	Innovative Design of Ca-Sensitive Paramagnetic Liposomes Results in an Unprecedented Increase in Longitudinal Relaxivity. <i>Biomacromolecules</i> , 2016, 17, 1303-1311.	5.4	20
49	Macrocylic Gd <sup>3+</sup> Complexes with Pendant Crown Ethers Designed for Binding Zwitterionic Neurotransmitters. <i>Chemistry - A European Journal</i> , 2015, 21, 11226-11237.	3.3	21
50	Binding capacity of molecularly imprinted polymers and their nonimprinted analogs. <i>Journal of Separation Science</i> , 2015, 38, 4240-4247.	2.5	15
51	Synthesis and Characterization of a Biotinylated Multivalent Targeted Contrast Agent. <i>ChemPlusChem</i> , 2015, 80, 612-622.	2.8	4
52	Ultrasml Nanoplatforms as Calciumâ€™Responsive Contrast Agents for Magnetic Resonance Imaging. <i>Small</i> , 2015, 11, 4900-4909.	10.0	40
53	5-Aryl-1H-pyrazole-3-carboxylic acids as selective inhibitors of human carbonic anhydrases IX and XII. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4649-4659.	3.0	18
54	Synthetic strategies for preparation of cyclen-based MRI contrast agents. <i>Tetrahedron Letters</i> , 2015, 56, 759-765.	1.4	31

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55	Anthelmintic Activity In Vivo of Epiisopiloturine against Juvenile and Adult Worms of <i>Schistosoma mansoni</i> . <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003656.	3.0	51
56	Comparison of the single channel and multichannel (multivariate) concepts of selectivity in analytical chemistry. <i>Talanta</i> , 2015, 139, 40-49.	5.5	6
57	Investigation into novel thiophene- and furan-based 4-amino-7-chloroquinolines afforded antimalarials that cure mice. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2176-2186.	3.0	21
58	Zn(II) complex with 2-quinolinecarboxaldehyde selenosemicarbazone: synthesis, structure, interaction studies with DNA/HSA, molecular docking and caspase-8 and -9 independent apoptose induction. <i>RSC Advances</i> , 2015, 5, 95191-95211.	3.6	31
59	Selectivity in analytical chemistry: Two interpretations for univariate methods. <i>Talanta</i> , 2015, 132, 680-684.	5.5	12
60	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
61	Dual-Frequency Calcium-Responsive MRI Agents. <i>Chemistry - A European Journal</i> , 2014, 20, 7351-7362.	3.3	44
62	Human Serum Albumin Binding of 2-[(Carboxymethyl)sulfanyl]-4-oxo-4-(4-tert-butylphenyl)butanoic Acid and its Mono-Me Ester. <i>ADMET and DMPK</i> , 2014, 2, .	2.1	3
63	Synthesis and characterization of pH-sensitive, biotinylated MRI contrast agents and their conjugates with avidin. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1294-1305.	2.8	19
64	Correlation between structure, retention, property, and activity of biologically relevant 1,7-bis(aminoalkyl)diazachrysenes derivatives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 72, 231-239.	2.8	11
65	Study of ellagic acid electro-oxidation mechanism. <i>Monatshefte für Chemie</i> , 2013, 144, 121-128.	1.8	31
66	Cation-Responsive MRI Contrast Agents Based on Gadolinium(III). <i>Current Inorganic Chemistry</i> , 2011, 1, 76-90.	0.2	20
67	Calcium-responsive paramagnetic CEST agents. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1097-1105.	3.0	52
68	Aryldiketo Acids Have Antibacterial Activity Against MDR <i>Staphylococcus aureus</i> Strains: Structural Insights Based on Similarity and Molecular Interaction Fields. <i>ChemMedChem</i> , 2009, 4, 1971-1975.	3.2	13
69	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
70	Smart Magnetic Resonance Imaging Agents that Sense Extracellular Calcium Fluctuations. <i>ChemBioChem</i> , 2008, 9, 1729-1734.	2.6	84
71	The Effect of Phenyl Substituents on <sup>13</sup> C NMR Shifts and Metal Ions Binding to 4-Phenyl-2,4-Dioxobutanoic Acid Derivatives. <i>Letters in Organic Chemistry</i> , 2008, 5, 692-699.	0.5	3
72	An LFER study of the protolytic equilibria of 4-aryl-2,4-dioxobutanoic acids in aqueous solutions. <i>Journal of the Serbian Chemical Society</i> , 2007, 72, 1201-1216.	0.8	16

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73	Synthesis and characterization of lanthanide complexes of DO3A-alkylphosphonates. Dalton Transactions, 2007, , 5260.	3.3	19
74	Towards extracellular Ca <sup>2+</sup> sensing by MRI: synthesis and calcium-dependent <sup>1</sup> H and <sup>17</sup> O relaxation studies of two novel bismacrocylic Gd <sup>3+</sup> complexes. Journal of Biological Inorganic Chemistry, 2007, 13, 35-46.	2.6	62
75	Tetraoxane Antimalarials and Their Reaction with Fe(II). Journal of Medicinal Chemistry, 2006, 49, 3790-3799.	6.4	52
76	A Rapid and Reliable Assay for Regioselectivity Using Fluorescence Spectroscopy. Advanced Synthesis and Catalysis, 2006, 348, 1193-1199.	4.3	20
77	Study of acid hydrolysis of bromazepam. Canadian Journal of Chemistry, 2004, 82, 1260-1265.	1.1	3