

# Kristina Djanashvili

## List of Publications by Year in descending order

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56  
papers

2,630  
citations

236612

25  
h-index

182168

51  
g-index

63  
all docs

63  
docs citations

63  
times ranked

4369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polysaccharide-Based Theranostic Systems for Combined Imaging and Cancer Therapy: Recent Advances and Challenges. ACS Biomaterials Science and Engineering, 2022, 8, 2281-2306.	2.6	17
2	On the Versatility of Nanozeolite Linde Type L for Biomedical Applications: Zirconium-89 Radiolabeling and In Vivo Positron Emission Tomography Study. ACS Applied Materials & Interfaces, 2022, 14, 32788-32798.	4.0	2
3	The search for panchromatic light-harvesting systems: Ternary and binary antennae based on self-organised materials. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 405, 112872.	2.0	0
4	Towards Enhanced MRI Performance of Tumor-Specific Dimeric Phenylboronic Contrast Agents. Molecules, 2021, 26, 1730.	1.7	5
5	The chemical consequences of the gradual decrease of the ionic radius along the Ln-series. Coordination Chemistry Reviews, 2020, 406, 213146.	9.5	64
6	Nuclear Waste and Biocatalysis: A Sustainable Liaison?. ACS Catalysis, 2020, 10, 14195-14200.	5.5	20
7	Process Intensification of Mesoporous Material's Synthesis by Microwave-Assisted Surfactant Removal. ACS Sustainable Chemistry and Engineering, 2020, 8, 16814-16822.	3.2	5
8	Solid-phase synthesis and evaluation of tumour-targeting phenylboronate-based MRI contrast agents. Organic and Biomolecular Chemistry, 2020, 18, 7899-7906.	1.5	4
9	Potential of MRI in Radiotherapy Mediated by Small Conjugates and Nanosystems. Inorganics, 2019, 7, 59.	1.2	4
10	Tumor Targeting via Sialic Acid: [68Ga]DOTA-en-pba as a New Tool for Molecular Imaging of Cancer with PET. Molecular Imaging and Biology, 2018, 20, 798-807.	1.3	10
11	Light-Harvesting Antennae using the Host-Guest Chemistry of Mesoporous Organosilica. ChemPhotoChem, 2018, 2, 196-206.	1.5	12
12	Mesoscopic FRET Antenna Materials by Self-Assembling Iridium(III) Complexes and BODIPY Dyes. Chemistry - A European Journal, 2018, 24, 11992-11999.	1.7	7
13	Luminescence Properties of Self-Aggregating Tb(III)-DOTA-Functionalized Calix[4]arenes. Frontiers in Chemistry, 2018, 6, 1.	1.8	358
14	Synthesis, characterization and performance of bifunctional catalysts for the synthesis of menthol from citronellal. RSC Advances, 2017, 7, 12041-12053.	1.7	15
15	Surface PEG Grafting Density Determines Magnetic Relaxation Properties of Gd-Loaded Porous Nanoparticles for MR Imaging Applications. ACS Applied Materials & Interfaces, 2017, 9, 23458-23465.	4.0	14
16	Imaging With Lanthanides. , 2017, , 261-293.		0
17	An Introduction to MRI Contrast Agents. , 2016, , .		2
18	Controllable Hydrocarbon Formation from the Electrochemical Reduction of CO <sub>2</sub> over Cu Nanowire Arrays. Angewandte Chemie - International Edition, 2016, 55, 6680-6684.	7.2	471

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19	Nanoparticles of lanthanide oxysulfate/oxysulfide for improved oxygen storage/release. Dalton Transactions, 2016, 45, 14019-14022.	1.6	13
20	Controllable Hydrocarbon Formation from the Electrochemical Reduction of CO <sub>2</sub> over Cu Nanowire Arrays. Angewandte Chemie, 2016, 128, 6792-6796.	1.6	112
21	Fate of Organic Functionalities Conjugated to Theranostic Nanoparticles upon Their Activation. Bioconjugate Chemistry, 2016, 27, 446-456.	1.8	2
22	Tetrahedral boronates as basic catalysts in the aldol reaction. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2015, 70, 587-595.	0.3	3
23	Prototropic Exchange Governs $T_1$ and $T_2$ Relaxivities of a Potential MRI Contrast Agent Nanozeolite Gd <sup>III</sup> -LTL with a High pH Responsiveness. Journal of Physical Chemistry C, 2015, 119, 5080-5089.	1.5	18
24	Selective electrochemical reduction of CO <sub>2</sub> to CO on CuO-derived Cu nanowires. Physical Chemistry Chemical Physics, 2015, 17, 20861-20867.	1.3	159
25	Al(OH) <sub>3</sub> facilitated synthesis of water-soluble, magnetic, radiolabelled and fluorescent hydroxyapatite nanoparticles. Chemical Communications, 2015, 51, 9332-9335.	2.2	21
26	Molecular architecture control in synthesis of spherical Ln-containing nanoparticles. RSC Advances, 2015, 5, 69861-69869.	1.7	9
27	Nanozeolite <sup>III</sup> -LTL with Gd <sup>III</sup> Deposited in the Large and Eu <sup>III</sup> in the Small Cavities as a Magnetic Resonance Optical Imaging Probe. Chemistry - A European Journal, 2014, 20, 3358-3364.	1.7	15
28	Gadolinium oxysulfide nanoparticles as multimodal imaging agents for T <sub>2</sub> -weighted MR, X-ray tomography and photoluminescence. Nanoscale, 2014, 6, 555-564.	2.8	59
29	B-TUD-1: a versatile mesoporous catalyst. RSC Advances, 2013, 3, 21524.	1.7	20
30	Synthesis, characterisation and catalytic performance of a mesoporous tungsten silicate: W-TUD-1. Applied Catalysis A: General, 2013, 468, 150-159.	2.2	25
31	MRI Visualization of Melanoma Cells by Targeting Overexpressed Sialic Acid with a Gd <sup>III</sup> -DOTA <sup>pba</sup> Imaging Reporter. Angewandte Chemie - International Edition, 2013, 52, 1161-1164.	7.2	81
32	Aldol reactions mediated by a tetrahedral boronate. Chemical Communications, 2013, 49, 361-363.	2.2	11
33	5-Hydroxymethylfurfural Synthesis from Hexoses Is Autocatalytic. ACS Catalysis, 2013, 3, 760-763.	5.5	90
34	Supramolecular $\mu$ -Leeks of a Fluorinated Hybrid Amphiphile That Self-Assembles into a Disordered Columnar Phase. Journal of Physical Chemistry B, 2013, 117, 2820-2826.	1.2	1
35	Pt/Al <sub>2</sub> O <sub>3</sub> Catalyzed 1,3-Propanediol Formation from Glycerol using Tungsten Additives. ChemCatChem, 2013, 5, 497-505.	1.8	76
36	17O NMR and Density Functional Theory Study of the Dynamics of the Carboxylate Groups in DOTA Complexes of Lanthanides in Aqueous Solution. Inorganic Chemistry, 2012, 51, 170-178.	1.9	35

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37	Lanthanide Loaded Zeolites, Clays, and Mesoporous Silica Materials as MRI Probes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1961-1974.	1.0	50
38	Microwave-Assisted Seeded Growth of Lanthanide-Based Nanoparticles for Imaging and Therapy. <i>Chemistry - A European Journal</i> , 2012, 18, 8004-8007.	1.7	8
39	Tuning selectivity of Pt/CaCO <sub>3</sub> in glycerol hydrogenolysis – A Design of Experiments approach. <i>Catalysis Communications</i> , 2011, 13, 1-5.	1.6	62
40	The Gd <sup>3+</sup> complex of 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid mono( <i>p</i> -isothiocyanatoanilide) conjugated to inulin: a potential stable macromolecular contrast agent for MRI. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 482-491.	0.4	13
41	Development of a liposomal delivery system for temperature-triggered release of a tumor targeting agent, Ln(III)-DOTA-phenylboronate. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1123-1130.	1.4	29
42	Towards Selective Recognition of Sialic Acid Through Simultaneous Binding to Its <i>cis</i> -Diol and Carboxylate Functions. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3237-3248.	1.2	28
43	Glycoconjugate probes and targets for molecular imaging using magnetic resonance. <i>Future Medicinal Chemistry</i> , 2010, 2, 409-425.	1.1	8
44	Molecular Recognition of Sialic Acid by Lanthanide(III) Complexes through Cooperative Two-Site Binding. <i>Inorganic Chemistry</i> , 2010, 49, 4212-4223.	1.9	33
45	Lanthanide(III) Complexes of Phosphorus Acid Analogues of H <sub>4</sub> DOTA as Model Compounds for the Evaluation of the Second-Sphere Hydration. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 119-136.	1.0	55
46	<sup>31</sup> P NMR study of the valence stability of tin in its 1-hydroxyethylene-diphosphonate (HEDP) and N,N,N',N'-trimethylenephosphonate-polyethyleneimine (PEI-MP) complexes. <i>Polyhedron</i> , 2008, 27, 1779-1786.	1.0	11
47	The structure of the lanthanide aquo ions in solution as studied by <sup>17</sup> O NMR spectroscopy and DFT calculations. <i>Dalton Transactions</i> , 2008, , 602-607.	1.6	46
48	Phenylboronate <sup>16</sup> Tb complexes for molecular recognition of glycoproteins expressed on tumor cells. <i>Contrast Media and Molecular Imaging</i> , 2007, 2, 35-41.	0.4	30
49	How to determine the number of inner-sphere water molecules in Lanthanide(III) complexes by <sup>17</sup> O NMR spectroscopy. A technical note. <i>Contrast Media and Molecular Imaging</i> , 2007, 2, 67-71.	0.4	48
50	Deuteration study to elucidate hydrogenolysis of benzylic alcohols over supported palladium catalysts. <i>Journal of Catalysis</i> , 2007, 246, 344-350.	3.1	30
51	Pyridine- and Phosphonate-Containing Ligands for Stable Ln Complexation. Extremely Fast Water Exchange on the Gd(III) Chelates. <i>Inorganic Chemistry</i> , 2006, 45, 8719-8728.	1.9	87
52	Molecular Recognition of Sialic Acid End Groups by Phenylboronates. <i>Chemistry - A European Journal</i> , 2005, 11, 4010-4018.	1.7	124
53	Combined epimerisation and acylation: Meerwein-Ponndorf-Verley-Oppenauer catalysts in action. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 483-489.	1.5	31
54	The highest water exchange rate ever measured for a Gd(III) chelate. <i>Chemical Communications</i> , 2005, , 4729.	2.2	39

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55	Lanthanide Chelates Containing Pyridine Units with Potential Application as Contrast Agents in Magnetic Resonance Imaging. <i>Chemistry - A European Journal</i> , 2004, 10, 3579-3590.	1.7	107
56	NMR study of the synthesis of $^{17}\text{O}$ -enriched acetic acid by hydrolysis of acetic anhydride with $^{17}\text{O}$ -enriched water. <i>Magnetic Resonance in Chemistry</i> , 2003, 41, 959-961.	1.1	1