

Zoltan Kovacs

List of Publications by Year in descending order

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41
papers

1,821
citations

471509

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330143

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42
all docs

42
docs citations

42
times ranked

3548
citing authors

#	ARTICLE	IF	CITATIONS
1	Acetate Is a Bioenergetic Substrate for Human Glioblastoma and Brain Metastases. <i>Cell</i> , 2014, 159, 1603-1614.	28.9	594
2	Oxidation of Alpha-Ketoglutarate Is Required for Reductive Carboxylation in Cancer Cells with Mitochondrial Defects. <i>Cell Reports</i> , 2014, 7, 1679-1690.	6.4	281
3	Equilibrium and Formation/Dissociation Kinetics of Some LnIII-PCTA Complexes. <i>Inorganic Chemistry</i> , 2006, 45, 9269-9280.	4.0	92
4	DNP by Thermal Mixing under Optimized Conditions Yields >60,000-fold Enhancement of ⁸⁹ Y NMR Signal. <i>Journal of the American Chemical Society</i> , 2011, 133, 8673-8680.	13.7	86
5	Hyperpolarized ¹⁵ N-pyridine Derivatives as pH-Sensitive MRI Agents. <i>Scientific Reports</i> , 2015, 5, 9104.	3.3	86
6	BDPA: An Efficient Polarizing Agent for Fast Dissolution Dynamic Nuclear Polarization NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2011, 17, 10825-10827.	3.3	72
7	Synthesis, Potentiometric, Kinetic, and NMR Studies of 1,4,7,10-Tetraazacyclododecane-1,7-bis(acetic) Tj ETQq1 1 0.784314 rgBT /Over Lanthanide(III) Ions. <i>Inorganic Chemistry</i> , 2008, 47, 3851-3862.	4.0	65
8	Measuring glucose cerebral metabolism in the healthy mouse using hyperpolarized ¹³ C magnetic resonance. <i>Scientific Reports</i> , 2017, 7, 11719.	3.3	43
9	Production and NMR Characterization of Hyperpolarized ^{107,109} Ag Complexes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 525-527.	13.8	40
10	Physico-chemical properties of MnII complexes formed with cis- and trans-DO2A: thermodynamic, electrochemical and kinetic studies. <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 206-213.	3.5	36
11	Hyperpolarized ¹³ C NMR detects rapid drug-induced changes in cardiac metabolism. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 312-319.	3.0	35
12	Fast Dissolution Dynamic Nuclear Polarization NMR of ¹³ C-Enriched ⁸⁹ Y-DOTA Complex: Experimental and Theoretical Considerations. <i>Applied Magnetic Resonance</i> , 2012, 43, 69-79.	1.2	30
13	Oxidative Conversion of a Europium(II)-Based <i>T</i> Agent into a Europium(III)-Based paraCEST Agent that can be Detected In Vivo by Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5024-5027.	13.8	25
14	Development and performance of a 129-GHz dynamic nuclear polarizer in an ultra-wide bore superconducting magnet. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 195-205.	2.0	24
15	Hyperpolarized [¹³ C]gluconolactone as a probe of the pentose phosphate pathway. <i>NMR in Biomedicine</i> , 2017, 30, e3713.	2.8	21
16	Improved Efficacy of Synthesizing ¹¹¹ M-Labeled DOTA Complexes in Binary Mixtures of Water and Organic Solvents. A Combined Radio- and Physicochemical Study. <i>Inorganic Chemistry</i> , 2018, 57, 6107-6117.	4.0	21
17	Molecular Platform for Design and Synthesis of Targeted Dual-Modality Imaging Probes. <i>Bioconjugate Chemistry</i> , 2015, 26, 549-558.	3.6	18
18	Novel compounds that specifically bind and modulate Mscl: insights into channel gating mechanisms. <i>FASEB Journal</i> , 2019, 33, 3180-3189.	0.5	17

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19	The Relationship between NMR Chemical Shifts of Thermally Polarized and Hyperpolarized ^{89}Y Complexes and Their Solution Structures. <i>Chemistry - A European Journal</i> , 2016, 22, 16657-16667.	3.3	16
20	Engineering a pH-Sensitive Liposomal MRI Agent by Modification of a Bacterial Channel. <i>Small</i> , 2018, 14, e1704256.	10.0	16
21	Electrochemical Investigation of the $\text{Eu}^{3+}/2+$ Redox Couple in Complexes with Variable Numbers of Glycinamide and Acetate Pendant Arms. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5001-5005.	2.0	15
22	Gallium(III) chelates of mixed phosphonate-carboxylate triazamacrocyclic ligands relevant to nuclear medicine: Structural, stability and in vivo studies. <i>Journal of Inorganic Biochemistry</i> , 2017, 177, 8-16.	3.5	14
23	Lanthanide DO3A-Tropone Complexes: Efficient Dual MR/NIR Imaging Probes in Aqueous Medium. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4965-4968.	2.0	12
24	The rate of lactate production from glucose in hearts is not altered by per-deuteration of glucose. <i>Journal of Magnetic Resonance</i> , 2017, 284, 86-93.	2.1	12
25	Probing carbohydrate metabolism using hyperpolarized ^{13}C -labeled molecules. <i>NMR in Biomedicine</i> , 2019, 32, e4018.	2.8	11
26	Hyperpolarized ^{15}N -labeled, deuterated tris(2-pyridylmethyl)amine as an MRI sensor of freely available Zn^{2+} . <i>Communications Chemistry</i> , 2020, 3, .	4.5	11
27	Conditions for ^{13}C NMR detection of 2-hydroxyglutarate in tissue extracts from isocitrate dehydrogenase-mutated gliomas. <i>Analytical Biochemistry</i> , 2015, 481, 4-6.	2.4	10
28	Influence of ^{13}C Isotopic Labeling Location on Dynamic Nuclear Polarization of Acetate. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3227-3233.	2.5	10
29	A Frequency-Selective pH-Responsive paraCEST Agent. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21671-21676.	13.8	10
30	Simultaneous Assessment of Intracellular and Extracellular pH Using Hyperpolarized ^{13}C -Alanine Ethyl Ester. <i>Analytical Chemistry</i> , 2020, 92, 11681-11686.	6.5	10
31	Comparison of the equilibrium, kinetic and water exchange properties of some metal ion-DOTA and DOTA-bis(amide) complexes. <i>Journal of Inorganic Biochemistry</i> , 2020, 206, 111042.	3.5	10
32	How the Chemical Properties of GBCAs Influence Their Safety Profiles In Vivo. <i>Molecules</i> , 2022, 27, 58.	3.8	10
33	Hepatic gluconeogenesis influences ^{13}C enrichment in lactate in human brain tumors during metabolism of ^{13}C -acetate. <i>Neurochemistry International</i> , 2016, 97, 133-136.	3.8	7
34	Oxidative Conversion of a Europium(II)-Based T_1 Agent into a Europium(III)-Based paraCEST Agent that can be Detected In Vivo by Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2016, 128, 5108-5111.	2.0	7
35	2 Gadolinium(III)-Based Contrast Agents for Magnetic Resonance Imaging. A Re-Appraisal. , 2021, , 39-70.		5
36	A comparative study of trans- and cis-isomers of a bone-seeking agent, DO2A2P. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 571-574.	2.2	4

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37	Hyperpolarized ⁸⁹ Y-EDTMP complex as a chemical shift-based NMR sensor for pH at the physiological range. <i>Journal of Magnetic Resonance</i> , 2020, 320, 106837.	2.1	3
38	¹³ C-Labeled Diethyl Ketoglutarate Derivatives as Hyperpolarized Probes of ² Ketoglutarate Dehydrogenase Activity. <i>Analysis & Sensing</i> , 2021, 1, 156-160.	2.0	3
39	Lanthanide DO3A-Tropone Complexes: Efficient Dual MR/NIR Imaging Probes in Aqueous Medium. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4963-4963.	2.0	0
40	A Frequency-Selective pH-Responsive paraCEST Agent. <i>Angewandte Chemie</i> , 2020, 132, 21855-21860.	2.0	0
41	Front Cover: Lanthanide DO3A-Tropone Complexes: Efficient Dual MR/NIR Imaging Probes in Aqueous Medium (<i>Eur. J. Inorg. Chem.</i> 43/2017). <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4962-4962.	2.0	0