

Markus Plaumann

List of Publications by Year in descending order

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28
papers

637
citations

686830

13
h-index

580395

25
g-index

30
all docs

30
docs citations

30
times ranked

720
citing authors

#	ARTICLE	IF	CITATIONS
1	Parahydrogen-Based Hyperpolarization for Biomedicine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11140-11162.	7.2	251
2	Parawasserstoff-basierte Hyperpolarisierung für die Biomedizin. <i>Angewandte Chemie</i> , 2018, 130, 11310-11333.	1.6	54
3	Evidence for an intrinsic binding force between dodecaborate dianions and receptors with hydrophobic binding pockets. <i>Chemical Communications</i> , 2016, 52, 6300-6303.	2.2	46
4	Parahydrogen induced polarization in face of keto-enol tautomerism: proof of concept with hyperpolarized ethanol. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5601.	1.3	34
5	Parahydrogen-Induced Polarization Transfer to ¹⁹ F in Perfluorocarbons for ¹⁹ F-NMR Spectroscopy and MRI. <i>Chemistry - A European Journal</i> , 2013, 19, 6334-6339.	1.7	32
6	SQUID-based detection of ultra-low-field multinuclear NMR of substances hyperpolarized using signal amplification by reversible exchange. <i>Scientific Reports</i> , 2017, 7, 13431.	1.6	29
7	Application of Parahydrogen-Induced Polarization to Unprotected Dehydroamino Carboxylic Acids. <i>Applied Magnetic Resonance</i> , 2013, 44, 267-278.	0.6	23
8	Low-cost LED-based PhotoCIDNP Enables Biocompatible Hyperpolarization of ¹⁹ F for NMR and MRI at 7 T and 4.7 T. <i>ChemPhysChem</i> , 2018, 19, 2453-2456.	1.0	22
9	Metabolic and Molecular Imaging with Hyperpolarised Tracers. <i>Molecular Imaging and Biology</i> , 2018, 20, 902-918.	1.3	18
10	Mutual benefit achieved by combining ultralow-field magnetic resonance and hyperpolarizing techniques. <i>Review of Scientific Instruments</i> , 2018, 89, 125103.	0.6	14
11	Multiple Quantum Coherences Hyperpolarized at Ultra-Low Fields. <i>ChemPhysChem</i> , 2019, 20, 2823-2829.	1.0	14
12	Coherent Evolution of Signal Amplification by Reversible Exchange in Two Alternating Fields (alt-SABRE). <i>ChemPhysChem</i> , 2021, 22, 2381-2386.	1.0	14
13	Methacryloyl chloride dimers: from structure elucidation to manifold of chemical transformations. <i>Tetrahedron</i> , 2014, 70, 6515-6521.	1.0	13
14	Metamaterial-based transmit and receive system for whole-body magnetic resonance imaging at ultra-high magnetic fields. <i>PLoS ONE</i> , 2018, 13, e0191719.	1.1	11
15	The Travelling-Wave Primate System: A New Solution for Magnetic Resonance Imaging of Macaque Monkeys at 7 Tesla Ultra-High Field. <i>PLoS ONE</i> , 2015, 10, e0129371.	1.1	10
16	Total Synthesis of Mycenarubin A, Sanguinolentaquinone and Mycenaflavin B and their Cytotoxic Activities. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2806-2816.	1.2	10
17	Substituent Influences on the NMR Signal Amplification of Ir Complexes with Heterocyclic Carbene Ligands. <i>Applied Magnetic Resonance</i> , 2019, 50, 895-902.	0.6	7
18	New insights into the old reaction between acryloyl chlorides and pyridine. <i>Tetrahedron Letters</i> , 2015, 56, 1124-1127.	0.7	6

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19	The application of novel Ir-NHC polarization transfer complexes by SABRE. <i>Journal of Chemical Physics</i> , 2019, 151, 244201.	1.2	6
20	Dipolar induced Para-Hydrogen-Induced Polarization. <i>Solid State Nuclear Magnetic Resonance</i> , 2014, 63-64, 20-29.	1.5	5
21	LED-Based Photo-CIDNP Hyperpolarization Enables ¹⁹ F MR Imaging and ¹⁹ F NMR Spectroscopy of 3-Fluoro-DL-tyrosine at 0.6ÅT. <i>Applied Magnetic Resonance</i> , 2022, 53, 1375-1398.	0.6	5
22	Parahydrogen-induced polarization of carboxylic acids: a pilot study of valproic acid and related structures. <i>NMR in Biomedicine</i> , 2014, 27, 810-816.	1.6	4
23	Aminotenuazonic Acid: Isolation, Structure Elucidation, Total Synthesis and Herbicidal Activity of a New Tetramic Acid from Fruiting Bodies of <i>Laccaria</i> Species. <i>Chemistry - A European Journal</i> , 2019, 25, 10333-10341.	1.7	3
24	Non-invasive high-resolution tracking of human neuronal pathways: diffusion tensor imaging at 7T with 1.2 mm isotropic voxel size. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
25	The impact of G protein-coupled oestrogen receptor 1 on male breast cancer: a retrospective analysis. <i>Wspolczesna Onkologia</i> , 2021, 25, 204-212.	0.7	1
26	IT support in emergency remote teaching in response to COVID-19. <i>GMS Journal for Medical Education</i> , 2021, 38, Doc16.	0.1	1
27	Chapter 3 Hyperpolarization for Signal Enhancement in Fluorine MR Applications. , 2016, , 59-102.		0
28	Aminotenuazonic Acid: Isolation, Structure Elucidation, Total Synthesis and Herbicidal Activity of a New Tetramic Acid from Fruiting Bodies of <i>Laccaria</i> Species. <i>Chemistry - A European Journal</i> , 2019, 25, 10250-10250.	1.7	0