

Gaspard Huber

List of Publications by Year in descending order

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37
papers

1,485
citations

304743

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330143

37
g-index

40
all docs

40
docs citations

40
times ranked

1223
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Soluble Cryptophanes Showing Unprecedented Affinity for Xenon: Candidates as NMR-Based Biosensors. <i>Journal of the American Chemical Society</i> , 2006, 128, 6239-6246.	13.7	139
2	Solution structure of reduced horse heart cytochrome c. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 21-31.	2.6	116
3	Partial Orientation of Oxidized and Reduced Cytochrome b ₅ at High Magnetic Fields: Magnetic Susceptibility Anisotropy Contributions and Consequences for Protein Solution Structure Determination. <i>Journal of the American Chemical Society</i> , 1998, 120, 12903-12909.	13.7	110
4	A Cryptophane Core Optimized for Xenon Encapsulation. <i>Journal of the American Chemical Society</i> , 2007, 129, 10332-10333.	13.7	110
5	Biosensing using laser-polarized xenon NMR/MRI. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2009, 55, 35-60.	7.5	105
6	Cell uptake of a biosensor detected by hyperpolarized ¹²⁹ Xe NMR: The transferrin case. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 4135-4143.	3.0	82
7	A Water-Soluble Xe@cryptophane-111 Complex Exhibits Very High Thermodynamic Stability and a Peculiar ¹²⁹ Xe NMR Chemical Shift. <i>Journal of the American Chemical Society</i> , 2010, 132, 15505-15507.	13.7	79
8	A Cryptophane Biosensor for the Detection of Specific Nucleotide Targets through Xenon NMR Spectroscopy. <i>ChemPhysChem</i> , 2007, 8, 2082-2085.	2.1	77
9	Single-Scan Multidimensional NMR Analysis of Mixtures at Submillimolar Concentrations by using SABRE Hyperpolarization. <i>ChemPhysChem</i> , 2015, 16, 3413-3417.	2.1	59
10	Cryptophane-Xenon Complexes in Organic Solvents Observed through NMR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11363-11372.	2.5	57
11	Metabolomic and proteomic investigations of impacts of titanium dioxide nanoparticles on <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2017, 12, e0178437.	2.5	50
12	Sensitivity and Multiplexing Capabilities of MRI Based on Polarized ¹²⁹ Xe Biosensors. <i>Journal of the American Chemical Society</i> , 2008, 130, 16456-16457.	13.7	47
13	Probing the Hydrophobic Cavity of Lipid Transfer Protein from <i>Nicotiana glauca</i> through Xenon-Based NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 15738-15746.	13.7	45
14	Interaction of Xenon with Cucurbit[5]uril in Water. <i>ChemPhysChem</i> , 2011, 12, 1053-1055.	2.1	37
15	NMR Study of Optically Active Monosubstituted Cryptophanes and Their Interaction with Xenon. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9608-9615.	2.5	35
16	Towards thrombosis-targeted zeolite nanoparticles for laser-polarized ¹²⁹ Xe MRI. <i>Journal of Materials Chemistry</i> , 2009, 19, 379-386.	6.7	35
17	ePHOGSY experiments on a paramagnetic protein: location of the catalytic water molecule in the heme crevice of the oxidized form of horse heart cytochrome c. <i>FEBS Letters</i> , 1997, 415, 45-48.	2.8	30
18	Dynamics of Xenon Binding Inside the Hydrophobic Cavity of Pseudo-Wild-type Bacteriophage T4 Lysozyme Explored through Xenon-Based NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 11676-11683.	13.7	30

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19	Observation of Noise-Triggered Chaotic Emissions in an NMR-Maser. <i>ChemPhysChem</i> , 2008, 9, 1395-1401.	2.1	28
20	Synthesis of Cucurbit[6]uril Derivatives and Insights into Their Solubility in Water. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3857-3865.	2.4	27
21	Nuclear Spin-Noise Spectra of Hyperpolarized Systems. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4341-4343.	13.8	24
22	Magnetization Transfer from Laser-Polarized Xenon to Protons with Spin-Diffusion Quenching. <i>ChemPhysChem</i> , 2003, 4, 384-387.	2.1	22
23	On the Tuning of High-Resolution NMR Probes. <i>ChemPhysChem</i> , 2014, 15, 3639-3645.	2.1	21
24	Dynamics of Xenon inside Hydrophobic Cavities As Probed by NMR Relaxation of Dissolved Laser-Polarized Xenon. <i>Journal of Physical Chemistry B</i> , 2004, 108, 767-773.	2.6	18
25	Diisobutylaluminum hydride as a molecular scalpel: the regioselective stripping of four methyl groups from permethylated β -cyclodextrin. <i>Comptes Rendus Chimie</i> , 2004, 7, 25-28.	0.5	14
26	HR- ^{13}C MAS NMR-Based Metabolomics: Localized Metabolic Profiling of a Garlic Clove with ^{13}C Tissues. <i>Analytical Chemistry</i> , 2018, 90, 13736-13743.	6.5	14
27	Single-Scan Diffusion-Ordered NMR Spectroscopy of SABRE-Hyperpolarized Mixtures. <i>ChemPhysChem</i> , 2019, 20, 392-398.	2.1	14
28	Regioselective one-step synthesis of hexahydroxy permethylated β -cyclodextrin and unambiguous NMR analysis. <i>Comptes Rendus Chimie</i> , 2005, 8, 27-30.	0.5	9
29	^1H and ^{129}Xe NMR absorption line shapes in the presence of highly polarized and concentrated xenon solutions in high magnetic field. <i>Journal of Magnetic Resonance</i> , 2007, 187, 78-87.	2.1	9
30	Nuclear spin noise in NMR revisited. <i>Journal of Chemical Physics</i> , 2015, 143, 094201.	3.0	9
31	Functionalization of Bambusurils by a Thiol-Ene Click Reaction and a Facile Method for the Preparation of Anion-Free Bambus[6]urils. <i>Chemistry - A European Journal</i> , 2018, 24, 10793-10801.	3.3	8
32	Study of the Hydrophobic Cavity of β -Cryptogein through Laser-Polarized Xenon NMR Spectroscopy. <i>ChemBioChem</i> , 2006, 7, 59-64.	2.6	6
33	Cucurbit[5]uril derivatives as oxygen carriers. <i>Supramolecular Chemistry</i> , 2019, 31, 668-675.	1.2	5
34	Effects on ^1H and ^{129}Xe NMR spectra of large magnetization created by dissolved laser-polarized xenon. <i>Comptes Rendus Chimie</i> , 2008, 11, 553-559.	0.5	3
35	Multiple echoes due to distant dipolar fields in NMR of hyperpolarized noble gas solutions. <i>European Physical Journal D</i> , 2013, 67, 1.	1.3	3
36	A more accurate tuning-matching technique for ^1H NMR probes using wobulation and variable phase shifter. <i>Concepts in Magnetic Resonance Part B</i> , 2015, 45, 59-68.	0.7	2

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37	Unsaturated cryptophanes: Toward dual PHIP/hyperpolarised xenon sensors. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 672-678.	1.9	0