

Stefan Gläggler

List of Publications by Year in descending order

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48
papers

1,516
citations

331670

21
h-index

315739

38
g-index

50
all docs

50
docs citations

50
times ranked

819
citing authors

#	ARTICLE	IF	CITATIONS
1	Parahydrogen-Based Hyperpolarization for Biomedicine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11140-11162.	13.8	251
2	Para-hydrogen induced polarization of amino acids, peptides and deuterium-hydrogen gas. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13759.	2.8	108
3	Ligand effects of NHC-iridium catalysts for signal amplification by reversible exchange (SABRE). <i>Chemical Communications</i> , 2013, 49, 7388.	4.1	87
4	A Nanoparticle Catalyst for Heterogeneous Phase Para-Hydrogen-Induced Polarization in Water. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2452-2456.	13.8	65
5	Over 50% ¹ H and ¹³ C Polarization for Generating Hyperpolarized Metabolites via a Para-Hydrogen Approach. <i>ChemistryOpen</i> , 2018, 7, 672-676.	1.9	63
6	Noninvasive nuclear magnetic resonance profiling of painting layers. <i>Applied Physics Letters</i> , 2008, 93, 033505.	3.3	62
7	Para-hydrogen perspectives in hyperpolarized NMR. <i>Journal of Magnetic Resonance</i> , 2013, 235, 130-142.	2.1	55
8	Parawasserstoff-basierte Hyperpolarisierung für die Biomedizin. <i>Angewandte Chemie</i> , 2018, 130, 11310-11333.	2.0	54
9	Thermal maps of gases in heterogeneous reactions. <i>Nature</i> , 2013, 502, 537-540.	27.8	52
10	Instrumentation for Hydrogenative Parahydrogen-Based Hyperpolarization Techniques. <i>Analytical Chemistry</i> , 2022, 94, 479-502.	6.5	52
11	Selective drug trace detection with low-field NMR. <i>Analyst</i> , 2011, 136, 1566.	3.5	48
12	Pulsed Magnetic Resonance to Signal-Enhance Metabolites within Seconds by utilizing para-Hydrogen. <i>ChemistryOpen</i> , 2018, 7, 344-348.	1.9	47
13	Singlet order conversion and parahydrogen-induced hyperpolarization of ¹³ C nuclei in near-equivalent spin systems. <i>Journal of Magnetic Resonance</i> , 2017, 274, 163-172.	2.1	45
14	Singlet-filtered NMR spectroscopy. <i>Science Advances</i> , 2020, 6, eaaz1955.	10.3	37
15	More Than 12% Polarization and 20...Minute Lifetime of ¹⁵ N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10692-10696.	13.8	36
16	Fundamental Aspects of Parahydrogen Enhanced Low-Field Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , 2013, 110, 137602.	7.8	32
17	Hyperpolarization of Amino Acids in Water Utilizing Parahydrogen on a Rhodium Nanocatalyst. <i>Chemistry - A European Journal</i> , 2019, 25, 11031-11035.	3.3	32
18	Production of highly concentrated and hyperpolarized metabolites within seconds in high and low magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22849-22856.	2.8	30

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19	SAMBADENA Hyperpolarization of ^{13}C -succinate in an MRI: Singlet-Triplet Mixing Causes Polarization Loss. <i>ChemistryOpen</i> , 2019, 8, 728-736.	1.9	25
20	A Nanoparticle Catalyst for Heterogeneous Phase Para-Hydrogen-Induced Polarization in Water. <i>Angewandte Chemie</i> , 2015, 127, 2482-2486.	2.0	24
21	Nuclear hyperpolarization of $(1-^{13}\text{C})$ -pyruvate in aqueous solution by proton-relayed side-arm hydrogenation. <i>Analyst</i> , 2021, 146, 1772-1778.	3.5	23
22	Aqueous Ligand-Stabilized Palladium Nanoparticle Catalysts for Parahydrogen-Induced ^{13}C Hyperpolarization. <i>Analytical Chemistry</i> , 2017, 89, 7190-7194.	6.5	22
23	NMR spectroscopy in the milli-Tesla regime: Measurement of ^1H chemical-shift differences below the line width. <i>Chemical Physics Letters</i> , 2010, 485, 217-220.	2.6	21
24	Nuclear spin singlet states as magnetic on/off probes in self-assembling systems. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22463-22467.	2.8	21
25	Rapidly Signal-Enhanced Metabolites for Atomic Scale Monitoring of Living Cells with Magnetic Resonance. <i>Chemistry Methods</i> , 2022, 2, .	3.8	21
26	More Than 12% Polarization and 20- Minute Lifetime of ^{15}N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. <i>Angewandte Chemie</i> , 2018, 130, 10852-10856.	2.0	19
27	Versatile magnetic resonance singlet tags compatible with biological conditions. <i>RSC Advances</i> , 2017, 7, 34574-34578.	3.6	17
28	A Miniaturized NMR-MOUSE with a High Magnetic Field Gradient (Mini-MOUSE). <i>Applied Magnetic Resonance</i> , 2015, 46, 181-202.	1.2	15
29	Nuclear singlet multimers (NUSIMERS) with long-lived singlet states. <i>Chemical Science</i> , 2019, 10, 413-417.	7.4	14
30	Spontaneous Enhancement of Magnetic Resonance Signals Using a RASER. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20984-20990.	13.8	13
31	A Field-Independent Method for the Rapid Generation of Hyperpolarized $[1-^{13}\text{C}]$ Pyruvate in Clean Water Solutions for Biomedical Applications. <i>Angewandte Chemie - International Edition</i> , 0, , .	13.8	13
32	Effects of multivariate linker substitution, metal binding, and reactor conditions on the catalytic activity of a Pd-functionalized MOF for olefin hydrogenation. <i>Applied Catalysis A: General</i> , 2014, 488, 248-255.	4.3	12
33	Signal-enhanced real-time magnetic resonance of enzymatic reactions at millitesla fields. <i>Chemical Science</i> , 2021, 12, 314-319.	7.4	12
34	Hyperpolarization of ^{15}N -pyridinium and ^{15}N -aniline derivatives by using parahydrogen: new opportunities to store nuclear spin polarization in aqueous media. <i>Chemical Science</i> , 2019, 10, 8577-8582.	7.4	11
35	Field-cycling long-lived-state NMR of $^{15}\text{N}_{2}$ spin pairs. <i>Molecular Physics</i> , 2019, 117, 861-867.	1.7	11
36	Nuclear Spin Singlet States in Photoactive Molecules: From Fluorescence/NMR Bimodality to a Bimolecular Switch for Spin Singlet States. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2879-2883.	13.8	11

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37	NMR Spectroscopy for Chemical Analysis at Low Magnetic Fields. Topics in Current Chemistry, 2011, 335, 1-22.	4.0	10
38	Localized singlet-filtered MRS in vivo. NMR in Biomedicine, 2021, 34, e4400.	2.8	9
39	High field ^1H hydrogen induced polarization of succinate and phospholactate. Physical Chemistry Chemical Physics, 2021, 23, 2320-2330.	2.8	8
40	Decoupling of Spin Decoherence Paths near Zero Magnetic Field. Journal of Physical Chemistry Letters, 2022, 13, 98-104.	4.6	7
41	Spontaneous Enhancement of Magnetic Resonance Signals Using a RASER. Angewandte Chemie, 2021, 133, 21152-21158.	2.0	5
42	Early Divergence in Misfolding Pathways of Amyloid β Peptides. ChemPhysChem, 2021, 22, 2158-2163.	2.1	4
43	Real-time Detection of Polymerization Reactions with Hyperpolarized Xenon at Low Magnetic Fields. , 2011, , .		3
44	Bimodal Fluorescence/Magnetic Resonance Molecular Probes with Extended Spin Lifetimes. Chemistry - A European Journal, 2022, 28, e202104158.	3.3	3
45	Hyperpolarization of ^{15}N in an amino acid derivative. RSC Advances, 2022, 12, 2282-2286.	3.6	3
46	A Field-Independent Method for the Rapid Generation of Hyperpolarized [^{13}C]Pyruvate in Clean Water Solutions for Biomedical Applications. Angewandte Chemie, 0, , .	2.0	2
47	Exotic nuclear spin behavior in dendritic macromolecules. Physical Chemistry Chemical Physics, 2021, 23, 26349-26355.	2.8	1
48	Nuclear Spin Singlet States in Photoactive Molecules: From Fluorescence/NMR Bimodality to a Bimolecular Switch for Spin Singlet States. Angewandte Chemie, 2019, 131, 2905-2909.	2.0	0