Stefan GlÃ¶ggler

List of Publications by Year
in descending order

48	1,516	331670 21	315739 38
papers	citations	h-index	g-index

50	50	50	819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bimodal Fluorescence/Magnetic Resonance Molecular Probes with Extended Spin Lifetimes. Chemistry - A European Journal, 2022, 28, e202104158.	3.3	3
2	Instrumentation for Hydrogenative Parahydrogen-Based Hyperpolarization Techniques. Analytical Chemistry, 2022, 94, 479-502.	6.5	52
3	Hyperpolarization of ¹⁵N in an amino acid derivative. RSC Advances, 2022, 12, 2282-2286.	3.6	3
4	Rapidly Signalâ€enhanced Metabolites for Atomic Scale Monitoring of Living Cells with Magnetic Resonance. Chemistry Methods, 2022, 2, .	3.8	21
5	Decoupling of Spin Decoherence Paths near Zero Magnetic Field. Journal of Physical Chemistry Letters, 2022, 13, 98-104.	4.6	7
6	Localized singletâ€filtered MRS in vivo. NMR in Biomedicine, 2021, 34, e4400.	2.8	9
7	Signal-enhanced real-time magnetic resonance of enzymatic reactions at millitesla fields. Chemical Science, 2021, 12, 314-319.	7.4	12
8	Nuclear hyperpolarization of (1-¹³C)-pyruvate in aqueous solution by proton-relayed side-arm hydrogenation. Analyst, The, 2021, 146, 1772-1778.	3.5	23
9	High field parahydrogen induced polarization of succinate and phospholactate. Physical Chemistry Chemical Physics, 2021, 23, 2320-2330.	2.8	8
10	Early Divergence in Misfolding Pathways of Amyloidâ€Beta Peptides. ChemPhysChem, 2021, 22, 2158-2163.	2.1	4
11	Spontaneous Enhancement of Magnetic Resonance Signals Using a RASER. Angewandte Chemie - International Edition, 2021, 60, 20984-20990.	13.8	13
12	Spontaneous Enhancement of Magnetic Resonance Signals Using a RASER. Angewandte Chemie, 2021, 133, 21152-21158.	2.0	5
13	Exotic nuclear spin behavior in dendritic macromolecules. Physical Chemistry Chemical Physics, 2021, 23, 26349-26355.	2.8	1
14	Singlet-filtered NMR spectroscopy. Science Advances, 2020, 6, eaaz1955.	10.3	37
15	Hyperpolarization of 15N-pyridinium and 15N-aniline derivatives by using parahydrogen: new opportunities to store nuclear spin polarization in aqueous media. Chemical Science, 2019, 10, 8577-8582.	7.4	11
16	SAMBADENA Hyperpolarization of ¹³Câ€Succinate in an MRI: Singletâ€Triplet Mixing Causes Polarization Loss. ChemistryOpen, 2019, 8, 728-736.	1.9	25
17	Hyperpolarization of Amino Acids in Water Utilizing Parahydrogen on a Rhodium Nanocatalyst. Chemistry - A European Journal, 2019, 25, 11031-11035.	3.3	32
18	Nuclear singlet multimers (NUSIMERs) with long-lived singlet states. Chemical Science, 2019, 10, 413-417.	7.4	14

#	Article	IF	Citations
19	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
20	Production of highly concentrated and hyperpolarized metabolites within seconds in high and low magnetic fields. Physical Chemistry Chemical Physics, 2019, 21, 22849-22856.	2.8	30
21	Field-cycling long-lived-state NMR of ¹⁵N₂ spin pairs. Molecular Physics, 2019, 117, 861-867.	1.7	11
22	Nuclear Spin Singlet States in Photoactive Molecules: From Fluorescence/NMR Bimodality to a Bimolecular Switch for Spin Singlet States. Angewandte Chemie - International Edition, 2019, 58, 2879-2883.	13.8	11
23	Parahydrogenâ€Based Hyperpolarization for Biomedicine. Angewandte Chemie - International Edition, 2018, 57, 11140-11162.	13.8	251
24	More Than 12â€‰% Polarization and 20â€…Minute Lifetime of ¹⁵N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. Angewandte Chemie, 2018, 130, 10852-10856.	2.0	19
25	Parawasserstoffâ€basierte Hyperpolarisierung fÃ¼r die Biomedizin. Angewandte Chemie, 2018, 130, 11310-11333.	2.0	54
26	Over 50â€‰% ¹H and ¹³C Polarization for Generating Hyperpolarized Metabolitesâ€”A paraâ€Hydrogen Approach. ChemistryOpen, 2018, 7, 672-676.	1.9	63
27	Nuclear spin singlet states as magnetic on/off probes in self-assembling systems. Physical Chemistry Chemical Physics, 2018, 20, 22463-22467.	2.8	21
28	Pulsed Magnetic Resonance to Signalâ€Enhance Metabolites within Seconds by utilizing paraâ€Hydrogen. ChemistryOpen, 2018, 7, 344-348.	1.9	47
29	More Than 12â€‰% Polarization and 20â€…Minute Lifetime of ¹⁵N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. Angewandte Chemie - International Edition, 2018, 57, 10692-10696.	13.8	36
30	Aqueous Ligand-Stabilized Palladium Nanoparticle Catalysts for Parahydrogen-Induced ¹³C Hyperpolarization. Analytical Chemistry, 2017, 89, 7190-7194.	6.5	22
31	Singlet order conversion and parahydrogen-induced hyperpolarization of 13C nuclei in near-equivalent spin systems. Journal of Magnetic Resonance, 2017, 274, 163-172.	2.1	45
32	Versatile magnetic resonance singlet tags compatible with biological conditions. RSC Advances, 2017, 7, 34574-34578.	3.6	17
33	A Nanoparticle Catalyst for Heterogeneous Phase Paraâ€Hydrogenâ€Induced Polarization in Water. Angewandte Chemie - International Edition, 2015, 54, 2452-2456.	13.8	65
34	A Nanoparticle Catalyst for Heterogeneous Phase Paraâ€Hydrogenâ€Induced Polarization in Water. Angewandte Chemie, 2015, 127, 2482-2486.	2.0	24
35	A Miniaturized NMR-MOUSE with a High Magnetic Field Gradient (Mini-MOUSE). Applied Magnetic Resonance, 2015, 46, 181-202.	1.2	15
36	Effects of multivariate linker substitution, metal binding, and reactor conditions on the catalytic activity of a Pd-functionalized MOF for olefin hydrogenation. Applied Catalysis A: General, 2014, 488, 248-255.	4.3	12

#	Article	IF	Citations
37	Para-hydrogen perspectives in hyperpolarized NMR. Journal of Magnetic Resonance, 2013, 235, 130-142.	2.1	55
38	Thermal maps of gases in heterogeneous reactions. Nature, 2013, 502, 537-540.	27.8	52
39	Ligand effects of NHCâ€“iridium catalysts for signal amplification by reversible exchange (SABRE). Chemical Communications, 2013, 49, 7388.	4.1	87
40	Fundamental Aspects of Parahydrogen Enhanced Low-Field Nuclear Magnetic Resonance. Physical Review Letters, 2013, 110, 137602.	7.8	32
41	Selective drug trace detection with low-field NMR. Analyst, The, 2011, 136, 1566.	3.5	48
42	Para-hydrogen induced polarization of amino acids, peptides and deuteriumâ€“hydrogen gas. Physical Chemistry Chemical Physics, 2011, 13, 13759.	2.8	108
43	NMR Spectroscopy for Chemical Analysis at Low Magnetic Fields. Topics in Current Chemistry, 2011, 335, 1-22.	4.0	10
44	Real-time Detection of Polymerization Reactions with Hyperpolarized Xenon at Low Magnetic Fields. , 2011, , .		3
45	NMR spectroscopy in the milli-Tesla regime: Measurement of 1H chemical-shift differences below the line width. Chemical Physics Letters, 2010, 485, 217-220.	2.6	21
46	Noninvasive nuclear magnetic resonance profiling of painting layers. Applied Physics Letters, 2008, 93, 033505.	3.3	62
47	Â-A Fieldâ€‐Independent Method for the Rapid Generation of Hyperpolarized [1â€‐13C]Pyruvate in Clean Water Solutions for Biomedical Applications. Angewandte Chemie - International Edition, 0, , .	13.8	13
48	Â-A Fieldâ€‐Independent Method for the Rapid Generation of Hyperpolarized [1â€‐13C]Pyruvate in Clean Water Solutions for Biomedical Applications. Angewandte Chemie, 0, , .	2.0	2