

Eduard Y Chekmenev

List of Publications by Year in descending order

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184
papers

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3378
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas-Phase NMR of Hyperpolarized Propane with ^1H -to- ^{13}C Polarization Transfer by PH-INEPT. <i>Applied Magnetic Resonance</i> , 2022, 53, 653-669.	1.2	6
2	Order-Unity ^{13}C Nuclear Polarization of $[\text{C}^{13}]\text{Pyruvate}$ in Seconds and the Interplay of Water and SABRE Enhancement. <i>ChemPhysChem</i> , 2022, 23, .	2.1	30
3	Instrumentation for Hydrogenative Parahydrogen-Based Hyperpolarization Techniques. <i>Analytical Chemistry</i> , 2022, 94, 479-502.	6.5	52
4	Scanning Nuclear Spin Level Anticrossings by Constant-Adiabaticity Magnetic Field Sweeping of Parahydrogen-Induced ^{13}C Polarization. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1925-1930.	4.6	8
5	Pilot Quality-Assurance Study of a Third-Generation Batch-Mode Clinical-Scale Automated Xenon-129 Hyperpolarizer. <i>Molecules</i> , 2022, 27, 1327.	3.8	3
6	Temperature Cycling Enables Efficient ^{13}C SABRE-SHEATH Hyperpolarization and Imaging of $[\text{C}^{13}]\text{-Pyruvate}$. <i>Journal of the American Chemical Society</i> , 2022, 144, 282-287.	13.7	39
7	RASER MRI: Magnetic resonance images formed spontaneously exploiting cooperative nonlinear interaction. <i>Science Advances</i> , 2022, 8, .	10.3	12
8	^{15}N NMR Hyperpolarization of Radiosensitizing Antibiotic Nimorazole by Reversible Parahydrogen Exchange in Microtesla Magnetic Fields. <i>Angewandte Chemie</i> , 2021, 133, 2436-2443.	2.0	6
9	^{15}N NMR Hyperpolarization of Radiosensitizing Antibiotic Nimorazole by Reversible Parahydrogen Exchange in Microtesla Magnetic Fields. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2406-2413.	13.8	33
10	Low-Flammable Parahydrogen-Polarized MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2021, 27, 2774-2781.	3.3	8
11	Heterogeneous Parahydrogen-Induced Polarization of Diethyl Ether for Magnetic Resonance Imaging Applications. <i>Chemistry - A European Journal</i> , 2021, 27, 1316-1322.	3.3	12
12	SABRE and PHIP pumped RASER and the route to chaos. <i>Journal of Magnetic Resonance</i> , 2021, 322, 106815.	2.1	19
13	Frontispiece: Heterogeneous Parahydrogen-Induced Polarization of Diethyl Ether for Magnetic Resonance Imaging Applications. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0
14	High field <i>para</i> -hydrogen induced polarization of succinate and phospholactate. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2320-2330.	2.8	8
15	Automated Low-Cost In Situ IR and NMR Spectroscopy Characterization of Clinical-Scale ^{129}Xe Spin-Exchange Optical Pumping. <i>Analytical Chemistry</i> , 2021, 93, 3883-3888.	6.5	3
16	Clinical-Scale Production of Nearly Pure (>98.5%) Parahydrogen and Quantification by Benchtop NMR Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 3594-3601.	6.5	27
17	PHIP hyperpolarized $[\text{C}^{13}]\text{pyruvate}$ and $[\text{C}^{13}]\text{acetate}$ esters via PH-INEPT polarization transfer monitored by ^{13}C NMR and MRI. <i>Scientific Reports</i> , 2021, 11, 5646.	3.3	19
18	Synthesis and ^{15}N NMR Signal Amplification by Reversible Exchange of $[\text{N}^{15}]\text{Dalfampridine}$ at Microtesla Magnetic Fields. <i>ChemPhysChem</i> , 2021, 22, 960-967.	2.1	8

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19	Bridging the Gap: From Homogeneous to Heterogeneous Parahydrogen-Induced Hyperpolarization and Beyond. <i>ChemPhysChem</i> , 2021, 22, 710-715.	2.1	3
20	Synthetic Approaches for ¹⁵ N-Labelled Hyperpolarized Heterocyclic Molecular Imaging Agents for ¹⁵ N NMR Signal Amplification by Reversible Exchange in Microtesla Magnetic Fields. <i>Chemistry - A European Journal</i> , 2021, 27, 9727-9736.	3.3	9
21	Magnetic shielding of parahydrogen hyperpolarization experiments for the masses. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 1180-1186.	1.9	13
22	Heterogeneous ¹ H and ¹³ C Parahydrogen-Induced Polarization of Acetate and Pyruvate Esters. <i>ChemPhysChem</i> , 2021, 22, 1389-1396.	2.1	9
23	Enabling Clinical Technologies for Hyperpolarized ¹²⁹ Xenon Magnetic Resonance Imaging and Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 22298-22319.	2.0	3
24	Low-Cost High-Pressure Clinical-Scale 50% Parahydrogen Generator Using Liquid Nitrogen at 77 K. <i>Analytical Chemistry</i> , 2021, 93, 8476-8483.	6.5	20
25	Enabling Clinical Technologies for Hyperpolarized ¹²⁹ Xenon Magnetic Resonance Imaging and Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22126-22147.	13.8	26
26	Hyperpolarization of common antifungal agents with SABRE. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 1225-1235.	1.9	8
27	Frontispiece: Synthetic Approaches for ¹⁵ N-Labelled Hyperpolarized Heterocyclic Molecular Imaging Agents for ¹⁵ N NMR Signal Amplification by Reversible Exchange in Microtesla Magnetic Fields. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0
28	A Versatile Compact Parahydrogen Membrane Reactor. <i>ChemPhysChem</i> , 2021, 22, 2526-2534.	2.1	17
29	Background-Free Proton NMR Spectroscopy with Radiofrequency Amplification by Stimulated Emission Radiation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26298-26302.	13.8	12
30	Innentitelbild: Background-Free Proton NMR Spectroscopy with Radiofrequency Amplification by Stimulated Emission Radiation (Angew. Chem. 50/2021). <i>Angewandte Chemie</i> , 2021, 133, 26206-26206.	2.0	0
31	New aspects of parahydrogen-induced polarization for C ₂ -C ₃ hydrocarbons using metal complexes. <i>Russian Chemical Bulletin</i> , 2021, 70, 2382-2389.	1.5	4
32	Direct ¹³ C Hyperpolarization of ¹³ C-Acetate by MicroTesla NMR Signal Amplification by Reversible Exchange (SABRE). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 418-423.	13.8	41
33	Direct ¹³ C Hyperpolarization of ¹³ C-Acetate by MicroTesla NMR Signal Amplification by Reversible Exchange (SABRE). <i>Angewandte Chemie</i> , 2020, 132, 426-431.	2.0	16
34	Pulse-Programmable Magnetic Field Sweeping of Parahydrogen-Induced Polarization by Side Arm Hydrogenation. <i>Analytical Chemistry</i> , 2020, 92, 1340-1345.	6.5	28
35	XeUS: A second-generation automated open-source batch-mode clinical-scale hyperpolarizer. <i>Journal of Magnetic Resonance</i> , 2020, 319, 106813.	2.1	16
36	Quantifying the effects of quadrupolar sinks via ¹⁵ N relaxation dynamics in metronidazoles hyperpolarized via SABRE-SHEATH. <i>Chemical Communications</i> , 2020, 56, 9098-9101.	4.1	32

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37	Parahydrogen-Induced Polarization of Diethyl Ether Anesthetic. <i>Chemistry - A European Journal</i> , 2020, 26, 13621-13626.	3.3	11
38	Automated pneumatic shuttle for magnetic field cycling and parahydrogen hyperpolarized multidimensional NMR. <i>Journal of Magnetic Resonance</i> , 2020, 312, 106700.	2.1	16
39	High-Pressure Clinical-Scale 87% Parahydrogen Generator. <i>Analytical Chemistry</i> , 2020, 92, 15280-15284.	6.5	16
40	Frontispiece: Parahydrogen-Induced Polarization of Diethyl Ether Anesthetic. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0
41	Functional stability of water wire-carbonyl interactions in an ion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11908-11915.	7.1	32
42	Pilot multi-site quality assurance study of batch-mode clinical-scale automated xenon-129 hyperpolarizers. <i>Journal of Magnetic Resonance</i> , 2020, 316, 106755.	2.1	9
43	Parahydrogen-Induced Magnetization of Jovian Planets?. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 495-498.	2.7	3
44	Parahydrogen-Induced Radio Amplification by Stimulated Emission of Radiation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8654-8660.	13.8	22
45	Parawasserstoff-induzierte Hyperpolarisation von Gasen. <i>Angewandte Chemie</i> , 2020, 132, 17940-17949.	2.0	1
46	Parahydrogen-Induced Radio Amplification by Stimulated Emission of Radiation. <i>Angewandte Chemie</i> , 2020, 132, 8732-8738.	2.0	14
47	Batch-Mode Clinical-Scale Optical Hyperpolarization of Xenon-129 Using an Aluminum Jacket with Rapid Temperature Ramping. <i>Analytical Chemistry</i> , 2020, 92, 4309-4316.	6.5	19
48	Parahydrogen-Induced Hyperpolarization of Gases. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17788-17797.	13.8	27
49	High Xe density, high photon flux, stopped-flow spin-exchange optical pumping: Simulations versus experiments. <i>Journal of Magnetic Resonance</i> , 2020, 312, 106686.	2.1	12
50	Helium-rich mixtures for improved batch-mode clinical-scale spin-exchange optical pumping of Xenon-129. <i>Journal of Magnetic Resonance</i> , 2020, 315, 106739.	2.1	6
51	Relayed nuclear Overhauser enhancement sensitivity to membrane Cho phospholipids. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1961-1976.	3.0	16
52	Cyclopropane Hydrogenation vs Isomerization over Pt and Pt-Sn Intermetallic Nanoparticle Catalysts: A Parahydrogen Spin-Labeling Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8304-8309.	3.1	14
53	Rational ligand choice extends the SABRE substrate scope. <i>Chemical Communications</i> , 2020, 56, 9336-9339.	4.1	23
54	Quasi-Resonance Fluorine-19 Signal Amplification by Reversible Exchange. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4229-4236.	4.6	23

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55	15 N Hyperpolarization of Dalfampridine at Natural Abundance for Magnetic Resonance Imaging. Chemistry - A European Journal, 2019, 25, 12694-12697.	3.3	18
56	NMR for Biological Systems. ChemPhysChem, 2019, 20, 177-177.	2.1	0
57	Unveiling coherently driven hyperpolarization dynamics in signal amplification by reversible exchange. Nature Communications, 2019, 10, 395.	12.8	36
58	Parahydrogen-Induced Polarization of 1- ¹³ C-Acetates and 1- ¹³ C-Pyruvates Using Sidearm Hydrogenation of Vinyl, Allyl, and Propargyl Esters. Journal of Physical Chemistry C, 2019, 123, 12827-12840.	3.1	28
59	Clinical-Scale Batch-Mode Production of Hyperpolarized Propane Gas for MRI. Analytical Chemistry, 2019, 91, 4741-4746.	6.5	23
60	Hyperpolarizing Concentrated Metronidazole ¹⁵ N₂ Group over Six Chemical Bonds with More than 15% Polarization and a 20-Second Minute Lifetime. Chemistry - A European Journal, 2019, 25, 8829-8836.	3.3	48
61	Relaxation Dynamics of Nuclear Long-Lived Spin States in Propane and Propane-d6 Hyperpolarized by Parahydrogen. Journal of Physical Chemistry C, 2019, 123, 11734-11744.	3.1	18
62	¹⁵ N MRI of SLIC-SABRE Hyperpolarized ¹⁵ N-Labelled Pyridine and Nicotinamide. Chemistry - A European Journal, 2019, 25, 8465-8470.	3.3	33
63	Limits of Spatial Resolution of Phase Encoding Dimensions in MRI of Metals. Journal of Physical Chemistry Letters, 2019, 10, 375-379.	4.6	1
64	Heterogeneous hydrogenation of phenylalkynes with parahydrogen: hyperpolarization, reaction selectivity, and kinetics. Physical Chemistry Chemical Physics, 2019, 21, 26477-26482.	2.8	12
65	A versatile synthetic route to the preparation of ¹⁵ N heterocycles. Journal of Labelled Compounds and Radiopharmaceuticals, 2019, 62, 892-902.	1.0	7
66	Unique Insights into the Structural and Functional Biology of Membrane Proteins from Solid State NMR Spectroscopy. Biophysical Journal, 2018, 114, 207a.	0.5	1
67	Parahydrogen-Based Hyperpolarization for Biomedicine. Angewandte Chemie - International Edition, 2018, 57, 11140-11162.	13.8	251
68	Spin Lattice Relaxation of Hyperpolarized Metronidazole in Signal Amplification by Reversible Exchange in Micro-Tesla Fields. Journal of Physical Chemistry C, 2018, 122, 4984-4996.	3.1	45
69	Gramicidin Ion Binding and Conductance: New Insights from 17O Solid State NMR Spectroscopy in a 1.5 GHz Spectrometer. Biophysical Journal, 2018, 114, 305a-306a.	0.5	0
70	Quasi-Resonance Signal Amplification by Reversible Exchange. Journal of Physical Chemistry Letters, 2018, 9, 6136-6142.	4.6	35
71	Effects of Deuteration of ¹³ C-Enriched Phospholactate on Efficiency of Parahydrogen-Induced Polarization by Magnetic Field Cycling. Journal of Physical Chemistry C, 2018, 122, 24740-24749.	3.1	12
72	Chemical Exchange Reaction Effect on Polarization Transfer Efficiency in SLIC-SABRE. Journal of Physical Chemistry A, 2018, 122, 9107-9114.	2.5	33

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73	¹⁹ F Hyperpolarization of ¹⁵ N-3- ¹⁹ F-Pyridine via Signal Amplification by Reversible Exchange. Journal of Physical Chemistry C, 2018, 122, 23002-23010.	3.1	23
74	Hyperpolarized NMR Spectroscopy: <i>d</i> - ¹³ C-DNP, PHIP, and SABRE Techniques. Chemistry - an Asian Journal, 2018, 13, 1857-1871.	3.3	180
75	Facile Removal of Homogeneous SABRE Catalysts for Purifying Hyperpolarized Metronidazole, a Potential Hypoxia Sensor. Journal of Physical Chemistry C, 2018, 122, 16848-16852.	3.1	69
76	Synthesis of Unsaturated Precursors for Parahydrogen-Induced Polarization and Molecular Imaging of 1- ¹³ C-Acetates and 1- ¹³ C-Pyruvates via Side Arm Hydrogenation. ACS Omega, 2018, 3, 6673-6682.	3.5	33
77	Heterogeneous Parahydrogen Pairwise Addition to Cyclopropane. ChemPhysChem, 2018, 19, 2621-2626.	2.1	19
78	Parawasserstoffbasierte Hyperpolarisierung für die Biomedizin. Angewandte Chemie, 2018, 130, 11310-11333.	2.0	54
79	NMR Spectroscopy Techniques: Hyperpolarization for Sensitivity Enhancement. , 2018, , 168-168.		1
80	Toward Cleavable Metabolic/pH Sensing "Double Agents" Hyperpolarized by NMR Signal Amplification by Reversible Exchange. Chemistry - A European Journal, 2018, 24, 10641-10645.	3.3	13
81	NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, 724-724.	3.3	1
82	NMR Spin-Lock Induced Crossing (SLIC) dispersion and long-lived spin states of gaseous propane at low magnetic field (0.05 T). Journal of Magnetic Resonance, 2017, 276, 78-85.	2.1	36
83	Generalizing, Extending, and Maximizing Nitrogen-15 Hyperpolarization Induced by Parahydrogen in Reversible Exchange. Journal of Physical Chemistry C, 2017, 121, 6626-6634.	3.1	112
84	Extending the Lifetime of Hyperpolarized Propane Gas through Reversible Dissolution. Journal of Physical Chemistry C, 2017, 121, 4481-4487.	3.1	18
85	2D Mapping of NMR Signal Enhancement and Relaxation for Heterogeneously Hyperpolarized Propane Gas. Journal of Physical Chemistry C, 2017, 121, 10038-10046.	3.1	31
86	Frontispiece: NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, .	3.3	2
87	Direct Hyperpolarization of Nitrogen-15 in Aqueous Media with Parahydrogen in Reversible Exchange. Journal of the American Chemical Society, 2017, 139, 7761-7767.	13.7	80
88	High-resolution hyperpolarized in vivo metabolic ¹³ C spectroscopy at low magnetic field (48.7 mT) following murine tail-vein injection. Journal of Magnetic Resonance, 2017, 281, 246-252.	2.1	26
89	The Absence of Quadrupolar Nuclei Facilitates Efficient ¹³ C Hyperpolarization via Reversible Exchange with Parahydrogen. ChemPhysChem, 2017, 18, 1493-1498.	2.1	87
90	Heterogeneous Microtesla SABRE Enhancement of ¹⁵ N NMR Signals. Angewandte Chemie - International Edition, 2017, 56, 10433-10437.	13.8	58

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91	Toward Hyperpolarized ¹⁹ F Molecular Imaging via Reversible Exchange with Parahydrogen. <i>ChemPhysChem</i> , 2017, 18, 1961-1965.	2.1	57
92	Robust Imidazole- ¹⁵ N ₂ Synthesis for High-Resolution Low-Field (0.05 T) ¹⁵ N-Hyperpolarized NMR Spectroscopy. <i>ChemistrySelect</i> , 2017, 2, 4478-4483.	1.5	27
93	Long-Lived ¹³ C ₂ Nuclear Spin States Hyperpolarized by Parahydrogen in Reversible Exchange at Microtesla Fields. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3008-3014.	4.6	63
94	A pulse programmable parahydrogen polarizer using a tunable electromagnet and dual channel NMR spectrometer. <i>Journal of Magnetic Resonance</i> , 2017, 284, 115-124.	2.1	24
95	Imaging of Biomolecular NMR Signals Amplified by Reversible Exchange with Parahydrogen Inside an MRI Scanner. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25994-25999.	3.1	25
96	Spin Relays Enable Efficient Long-Range Heteronuclear Signal Amplification by Reversible Exchange. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28425-28434.	3.1	46
97	Heterogeneous Microtesla SABRE Enhancement of ¹⁵ N NMR Signals. <i>Angewandte Chemie</i> , 2017, 129, 10569-10573.	2.0	27
98	Aqueous, Heterogeneous <i>para</i> -Hydrogen-Induced ¹⁵ N Polarization. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15304-15309.	3.1	40
99	NMR Hyperpolarization Techniques of Gases. <i>Chemistry - A European Journal</i> , 2017, 23, 725-751.	3.3	140
100	¹⁵ N Hyperpolarization of Imidazole- ¹⁵ N ₂ for Magnetic Resonance pH Sensing via SABRE-SHEATH. <i>ACS Sensors</i> , 2016, 1, 640-644.	7.8	111
101	Production of Pure Aqueous ¹³ C-Hyperpolarized Acetate by Heterogeneous Parahydrogen-Induced Polarization. <i>Chemistry - A European Journal</i> , 2016, 22, 16446-16449.	3.3	36
102	Open-Source Automated Parahydrogen Hyperpolarizer for Molecular Imaging Using ¹³ C Metabolic Contrast Agents. <i>Analytical Chemistry</i> , 2016, 88, 8279-8288.	6.5	84
103	NMR Signal Amplification by Reversible Exchange of Sulfur-Heterocyclic Compounds Found In Petroleum. <i>ChemistrySelect</i> , 2016, 1, 2552-2555.	1.5	34
104	Efficient Batch-Mode Parahydrogen-Induced Polarization of Propane. <i>ChemPhysChem</i> , 2016, 17, 3395-3398.	2.1	13
105	Toward production of pure ¹³ C hyperpolarized metabolites using heterogeneous parahydrogen-induced polarization of ethyl[¹³ C]acetate. <i>RSC Advances</i> , 2016, 6, 69728-69732.	3.6	28
106	NMR SLIC Sensing of Hydrogenation Reactions Using Parahydrogen in Low Magnetic Fields. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29098-29106.	3.1	21
107	Direct and cost-efficient hyperpolarization of long-lived nuclear spin states on universal ¹⁵ N ₂ -diazirine molecular tags. <i>Science Advances</i> , 2016, 2, e1501438.	10.3	193
108	Efficient Synthesis of Molecular Precursors for Para-Hydrogen-Induced Polarization of Ethyl Acetate- ¹³ C and Beyond. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6071-6074.	13.8	53

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109	Over 20% ¹⁵ N Hyperpolarization in Under One Minute for Metronidazole, an Antibiotic and Hypoxia Probe. <i>Journal of the American Chemical Society</i> , 2016, 138, 8080-8083.	13.7	123
110	Aqueous NMR Signal Enhancement by Reversible Exchange in a Single Step Using Water-Soluble Catalysts. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12149-12156.	3.1	63
111	Efficient Synthesis of Molecular Precursors for Para-Hydrogen-Induced Polarization of Ethyl Acetate- ¹³ C and Beyond. <i>Angewandte Chemie</i> , 2016, 128, 6175-6178.	2.0	18
112	Efficient Synthesis of Nicotinamide-1- ¹⁵ N for Ultrafast NMR Hyperpolarization Using Parahydrogen. <i>Bioconjugate Chemistry</i> , 2016, 27, 878-882.	3.6	62
113	MR Imaging Biomarkers in Oncology Clinical Trials. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2016, 24, 11-29.	1.1	33
114	Gas Phase UTE MRI of Propane and Propene. <i>Tomography</i> , 2016, 2, 49-55.	1.8	21
115	Microtesla SABRE Enables 10% Nitrogen-15 Nuclear Spin Polarization. <i>Journal of the American Chemical Society</i> , 2015, 137, 1404-1407.	13.7	275
116	NMR Hyperpolarization Techniques for Biomedicine. <i>Chemistry - A European Journal</i> , 2015, 21, 3156-3166.	3.3	247
117	Nanoscale Catalysts for NMR Signal Enhancement by Reversible Exchange. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7525-7533.	3.1	61
118	Noninvasive Measurements of Glycogen in Perfused Mouse Livers Using Chemical Exchange Saturation Transfer NMR and Comparison to ¹³ C NMR Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 5824-5830.	6.5	15
119	Hyperpolarization of Neat-Liquids by NMR Signal Amplification by Reversible Exchange. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1961-1967.	4.6	85
120	¹⁵ N Hyperpolarization by Reversible Exchange Using SABRE-SHEATH. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8786-8797.	3.1	192
121	Inhalable Curcumin: Offering the Potential for Translation to Imaging and Treatment of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 283-295.	2.6	40
122	Propane- ⁶ Heterogeneously Hyperpolarized by Parahydrogen. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28234-28243.	3.1	71
123	Dephosphorylation and biodistribution of ¹³ C-phospholactate <i>in vivo</i> . <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 517-524.	1.0	26
124	Imaging amide proton transfer and nuclear overhauser enhancement using chemical exchange rotation transfer (CERT). <i>Magnetic Resonance in Medicine</i> , 2014, 72, 471-476.	3.0	62
125	Sub-second proton imaging of ¹³ C hyperpolarized contrast agents in water. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 333-341.	0.8	22
126	The Feasibility of Formation and Kinetics of NMR Signal Amplification by Reversible Exchange (SABRE) at High Magnetic Field (9.4 T). <i>Journal of the American Chemical Society</i> , 2014, 136, 3322-3325.	13.7	148

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127	A 3D-Printed High Power Nuclear Spin Polarizer. <i>Journal of the American Chemical Society</i> , 2014, 136, 1636-1642.	13.7	72
128	High-Resolution Structures and Orientations of Antimicrobial Peptides Piscidin 1 and Piscidin 3 in Fluid Bilayers Reveal Tilting, Kinking, and Bilayer Immersion. <i>Journal of the American Chemical Society</i> , 2014, 136, 3491-3504.	13.7	78
129	Irreversible Catalyst Activation Enables Hyperpolarization and Water Solubility for NMR Signal Amplification by Reversible Exchange. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13882-13889.	2.6	131
130	In Situ and Ex Situ Low-Field NMR Spectroscopy and MRI Endowed by SABRE Hyperpolarization. <i>ChemPhysChem</i> , 2014, 15, 4100-4107.	2.1	58
131	Multidimensional Mapping of Spin-Exchange Optical Pumping in Clinical-Scale Batch-Mode ¹²⁹ Xe Hyperpolarizers. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4809-4816.	2.6	32
132	Sodium 3D COncentration MApping (COMA 3D) using ²³ Na and proton MRI. <i>Journal of Magnetic Resonance</i> , 2014, 247, 88-95.	2.1	0
133	Temperature-Ramped ¹²⁹ Xe Spin-Exchange Optical Pumping. <i>Analytical Chemistry</i> , 2014, 86, 8206-8212.	6.5	37
134	LIGHT-SABRE enables efficient in-magnet catalytic hyperpolarization. <i>Journal of Magnetic Resonance</i> , 2014, 248, 23-26.	2.1	151
135	Parahydrogen Induced Polarization of 1- ¹³ C-Phospholactate- <i>d</i> ₂ for Biomedical Imaging with >30,000,000-fold NMR Signal Enhancement in Water. <i>Analytical Chemistry</i> , 2014, 86, 5601-5605.	6.5	83
136	Long-Lived Spin States for Low-Field Hyperpolarized Gas MRI. <i>Chemistry - A European Journal</i> , 2014, 20, 14629-14632.	3.3	65
137	High-Resolution Low-Field Molecular Magnetic Resonance Imaging of Hyperpolarized Liquids. <i>Analytical Chemistry</i> , 2014, 86, 9042-9049.	6.5	39
138	High-Resolution 3D Proton MRI of Hyperpolarized Gas Enabled by Parahydrogen and Rh/TiO ₂ Heterogeneous Catalyst. <i>Chemistry - A European Journal</i> , 2014, 20, 11597-11597.	3.3	1
139	Toward hyperpolarized molecular imaging of HIV: synthesis and longitudinal relaxation properties of ¹⁵ N-azidothymidine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 621-624.	1.0	9
140	Heterogeneous Solution NMR Signal Amplification by Reversible Exchange. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7495-7498.	13.8	90
141	XeNA: An automated "open-source" ¹²⁹ Xe hyperpolarizer for clinical use. <i>Magnetic Resonance Imaging</i> , 2014, 32, 541-550.	1.8	57
142	High-Resolution 3D Proton MRI of Hyperpolarized Gas Enabled by Parahydrogen and Rh/TiO ₂ Heterogeneous Catalyst. <i>Chemistry - A European Journal</i> , 2014, 20, 11636-11639.	3.3	72
143	Demonstration of Heterogeneous Parahydrogen Induced Polarization Using Hyperpolarized Agent Migration from Dissolved Rh(I) Complex to Gas Phase. <i>Analytical Chemistry</i> , 2014, 86, 6192-6196.	6.5	27
144	Low-field MRI can be more sensitive than high-field MRI. <i>Journal of Magnetic Resonance</i> , 2013, 237, 169-174.	2.1	103

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