

Diego Carnevale

List of Publications by Year in descending order

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40
papers

1,054
citations

471061

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42
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docs citations

42
times ranked

1117
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Microwave Gating on Nuclear Spin Echoes in Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 175-182.	2.1	5
2	Nitrogen-14 NMR Spectroscopy. , 2021, , .		0
3	Natural abundance oxygen-17 solid-state NMR of metal organic frameworks enhanced by dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2245-2251.	1.3	13
4	Self-Assembly of DNA and RNA Building Blocks Explored by Nitrogen-14 NMR Crystallography: Structure and Dynamics. <i>ChemPhysChem</i> , 2020, 21, 1044-1051.	1.0	7
5	Spin Thermometry: A Straightforward Measure of Millikelvin Deuterium Spin Temperatures Achieved by Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3219-3225.	2.1	10
6	Orientation-Dependent Proton Relaxation of Water Molecules Trapped in Solids: Crystallites with Long-Lived Magnetization. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9763-9769.	1.1	4
7	Cross-term Splittings Due to the Orientational Inequivalence of Proton Magnetic Shielding Tensors: Do Water Molecules Trapped in Crystals Hop or Tunnel?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3224-3231.	2.1	8
8	Dipolar couplings in solid polypeptides probed by ¹⁴ N NMR spectroscopy. <i>Communications Chemistry</i> , 2018, 1, .	2.0	10
9	Columnar self-assembly of N,N'-triethylbenzene-1,3,5-tricarboxamides investigated by means of NMR spectroscopy and computational methods in solution and the solid state. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5525-5539.	1.3	10
10	Double cross polarization for the indirect detection of nitrogen-14 nuclei in magic angle spinning NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 147, 184201.	1.2	25
11	Exciting Wide NMR Spectra of Static Solid Samples with Weak Radiofrequency Fields. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 527-543.	1.4	5
12	Homonuclear decoupling for spectral simplification of carbon-13 enriched molecules in solution-state NMR enhanced by dissolution DNP. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11480-11487.	1.3	6
13	Combining coordination and hydrogen-bonds to form arene ruthenium metalla-assemblies. <i>Journal of Organometallic Chemistry</i> , 2016, 824, 80-87.	0.8	9
14	Selective N-cycle hydrogenation of quinolines with sodium borohydride in aqueous media catalyzed by hectorite-supported ruthenium nanoparticles. <i>Journal of Organometallic Chemistry</i> , 2016, 821, 197-205.	0.8	18
15	NMR spectroscopy and DFT calculations of a self-assembled arene ruthenium rectangle obtained from a combination of coordination and hydrogen bonds. <i>Dalton Transactions</i> , 2016, 45, 1410-1421.	1.6	8
16	NMR and EPR Characterization of Functionalized Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12408-12422.	1.5	36
17	Rotation-induced recovery and bleaching in magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6415-6422.	1.3	8
18	Challenges in preparing, preserving and detecting para-water in bulk: overcoming proton exchange and other hurdles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26819-26827.	1.3	29

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19	Dynamic nuclear polarization enhancement of protons and vanadium-51 in the presence of pH-dependent vanadyl radicals. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 88-92.	1.1	8
20	Insights into the Catalytic Activity of Nitridated Fibrous Silica (KCC-1) Nanocatalysts from ¹⁵ N and ²⁹ Si NMR Spectroscopy Enhanced by Dynamic Nuclear Polarization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2190-2193.	7.2	101
21	Solid-state NMR measurements and DFT calculations of the magnetic shielding tensors of protons of water trapped in barium chlorate monohydrate. <i>RSC Advances</i> , 2014, 4, 56248-56258.	1.7	17
22	Solid-state carbon-13 NMR and computational characterization of the N719 ruthenium sensitizer adsorbed on TiO2 nanoparticles. <i>Dalton Transactions</i> , 2014, 43, 6389.	1.6	4
23	Probing ²⁷ Al- ¹³ C proximities in metal-organic frameworks using dynamic nuclear polarization enhanced NMR spectroscopy. <i>Chemical Communications</i> , 2014, 50, 933-935.	2.2	67
24	Solid-state NMR enhanced by dynamic nuclear polarization as a novel tool for ribosome structural biology. <i>Journal of Biomolecular NMR</i> , 2013, 56, 85-93.	1.6	59
25	Solid-state proton NMR of paramagnetic metal complexes: DANTE spin echoes for selective excitation in inhomogeneously broadened lines. <i>Chemical Physics Letters</i> , 2013, 580, 172-178.	1.2	11
26	Analysis of sensitivity enhancement by dynamic nuclear polarization in solid-state NMR: a case study of functionalized mesoporous materials. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5553.	1.3	76
27	Mesoporous Silica Nanoparticles Loaded with Surfactant: Low Temperature Magic Angle Spinning ¹³ C and ²⁹ Si NMR Enhanced by Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1375-1382.	1.5	128
28	How to Tickle Spins with a Fourier Transform NMR Spectrometer. <i>ChemPhysChem</i> , 2013, 14, 369-373.	1.0	2
29	Broadband excitation in solid-state NMR using interleaved DANTE pulse trains with N pulses per rotor period. <i>Journal of Magnetic Resonance</i> , 2013, 236, 105-116.	1.2	21
30	Dynamic Nuclear Polarization and Other Magnetic Ideas at EPFL. <i>Chimia</i> , 2012, 66, 734.	0.3	3
31	Exploiting the Chemical Shielding Anisotropy to Probe Structure and Disorder in Ceramics: 89Y MAS NMR and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4273-4286.	1.5	41
32	Broadband excitation in solid-state NMR of paramagnetic samples using Delays Alternating with Nutation for Tailored Excitation (Para-DANTE™). <i>Chemical Physics Letters</i> , 2012, 553, 68-76.	1.2	20
33	Dynamic nuclear polarization of quadrupolar nuclei using cross polarization from protons: surface-enhanced aluminium-27 NMR. <i>Chemical Communications</i> , 2012, 48, 1988.	2.2	123
34	Polychromatic Decoupling of a Manifold of Homonuclear Scalar Interactions in Solution-State NMR. <i>Chemistry - A European Journal</i> , 2012, 18, 11573-11576.	1.7	19
35	Composite pulses for efficient excitation of half-integer quadrupolar nuclei in NMR of static and spinning solid samples. <i>Chemical Physics Letters</i> , 2012, 530, 120-125.	1.2	6
36	Extending Timescales and Narrowing Linewidths in NMR. <i>Chimia</i> , 2011, 65, 652.	0.3	0

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37	Detecting solid-state reactivity in 10-hydroxy-10,9-boroxophenanthrene using NMR spectroscopy. <i>Tetrahedron</i> , 2010, 66, 6238-6250.	1.0	21
38	Molecular Modeling, Multinuclear NMR, and Diffraction Studies in the Templated Synthesis and Characterization of the Aluminophosphate Molecular Sieve STA-2. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12698-12710.	1.5	44
39	Multinuclear Magnetic Resonance and DFT Studies of the Poly(chlorotrifluoroethylene- <i>i>alt</i> -ethyl vinyl ether) Copolymers. <i>Macromolecules</i> , 2009, 42, 5652-5659.	2.2	42
40	Identification of an isomer impurity in piperazine drug substance. <i>Journal of Chromatography A</i> , 2006, 1135, 166-169.	1.8	9