Diego Carnevale

List of Publications by Year
in descending order

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40	1,054	471061	414034
papers	citations	17 h-index	32 g-index

42	42	42	1117
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mesoporous Silica Nanoparticles Loaded with Surfactant: Low Temperature Magic Angle Spinning ¹³C and ²⁹Si NMR Enhanced by Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 2013, 117, 1375-1382.	1.5	128
2	Dynamic nuclear polarization of quadrupolar nuclei using cross polarization from protons: surface-enhanced aluminium-27 NMR. Chemical Communications, 2012, 48, 1988.	2.2	123
3	Insights into the Catalytic Activity of Nitridated Fibrous Silica (KCCâ€1) Nanocatalysts from ¹⁵N and ²⁹Siâ€...NMR Spectroscopy Enhanced by Dynamic Nuclear Polarization. Angewandte Chemie - International Edition, 2015, 54, 2190-2193.	7.2	101
4	Analysis of sensitivity enhancement by dynamic nuclear polarization in solid-state NMR: a case study of functionalized mesoporous materials. Physical Chemistry Chemical Physics, 2013, 15, 5553.	1.3	76
5	Probing²⁷Alâ€“¹³C proximities in metalâ€“organic frameworks using dynamic nuclear polarization enhanced NMR spectroscopy. Chemical Communications, 2014, 50, 933-935.	2.2	67
6	Solid-state NMR enhanced by dynamic nuclear polarization as a novel tool for ribosome structural biology. Journal of Biomolecular NMR, 2013, 56, 85-93.	1.6	59
7	Molecular Modeling, Multinuclear NMR, and Diffraction Studies in the Templated Synthesis and Characterization of the Aluminophosphate Molecular Sieve STA-2. Journal of Physical Chemistry C, 2010, 114, 12698-12710.	1.5	44
8	Multinuclear Magnetic Resonance and DFT Studies of the Poly(chlorotrifluoroethylene-alt-ethyl vinyl ether) Copolymers. Macromolecules, 2009, 42, 5652-5659.	2.2	42
9	Exploiting the Chemical Shielding Anisotropy to Probe Structure and Disorder in Ceramics: 89Y MAS NMR and First-Principles Calculations. Journal of Physical Chemistry C, 2012, 116, 4273-4286.	1.5	41
10	NMR and EPR Characterization of Functionalized Nanodiamonds. Journal of Physical Chemistry C, 2015, 119, 12408-12422.	1.5	36
11	Challenges in preparing, preserving and detecting para-water in bulk: overcoming proton exchange and other hurdles. Physical Chemistry Chemical Physics, 2015, 17, 26819-26827.	1.3	29
12	Double cross polarization for the indirect detection of nitrogen-14 nuclei in magic angle spinning NMR spectroscopy. Journal of Chemical Physics, 2017, 147, 184201.	1.2	25
13	Detecting solid-state reactivity in 10-hydroxy-10,9-boroxophenanthrene using NMR spectroscopy. Tetrahedron, 2010, 66, 6238-6250.	1.0	21
14	Broadband excitation in solid-state NMR using interleaved DANTE pulse trains with N pulses per rotor period. Journal of Magnetic Resonance, 2013, 236, 105-116.	1.2	21
15	Broadband excitation in solid-state NMR of paramagnetic samples using Delays Alternating with Nutation for Tailored Excitation (â€˜Para-DANTEâ€™). Chemical Physics Letters, 2012, 553, 68-76.	1.2	20
16	Polychromatic Decoupling of a Manifold of Homonuclear Scalar Interactions in Solutionâ€State NMR. Chemistry - A European Journal, 2012, 18, 11573-11576.	1.7	19
17	Selective N-cycle hydrogenation of quinolines with sodium borohydride in aqueous media catalyzed by hectorite-supported ruthenium nanoparticles. Journal of Organometallic Chemistry, 2016, 821, 197-205.	0.8	18
18	Solid-state NMR measurements and DFT calculations of the magnetic shielding tensors of protons of water trapped in barium chlorate monohydrate. RSC Advances, 2014, 4, 56248-56258.	1.7	17

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19	Natural abundance oxygen-17 solid-state NMR of metal organic frameworks enhanced by dynamic nuclear polarization. Physical Chemistry Chemical Physics, 2021, 23, 2245-2251.	1.3	13
20	Solid-state proton NMR of paramagnetic metal complexes: DANTE spin echoes for selective excitation in inhomogeneously broadened lines. Chemical Physics Letters, 2013, 580, 172-178.	1.2	11
21	Columnar self-assembly of N,Nâ€²,Nâ€²â€²-trihexylbenzene-1,3,5-tricarboxamides investigated by means of NMR spectroscopy and computational methods in solution and the solid state. Physical Chemistry Chemical Physics, 2017, 19, 5525-5539.	1.3	10
22	Dipolar couplings in solid polypeptides probed by 14N NMR spectroscopy. Communications Chemistry, 2018, 1, .	2.0	10
23	Spin Thermometry: A Straightforward Measure of Millikelvin Deuterium Spin Temperatures Achieved by Dynamic Nuclear Polarization. Journal of Physical Chemistry Letters, 2020, 11, 3219-3225.	2.1	10
24	Identification of an isomer impurity in piperaquine drug substance. Journal of Chromatography A, 2006, 1135, 166-169.	1.8	9
25	Combining coordination and hydrogen-bonds to form arene ruthenium metalla-assemblies. Journal of Organometallic Chemistry, 2016, 824, 80-87.	0.8	9
26	Rotation-induced recovery and bleaching in magnetic resonance. Physical Chemistry Chemical Physics, 2015, 17, 6415-6422.	1.3	8
27	Dynamic nuclear polarization enhancement of protons and vanadiumâ€51 in the presence of pHâ€dependent vanadyl radicals. Magnetic Resonance in Chemistry, 2015, 53, 88-92.	1.1	8
28	NMR spectroscopy and DFT calculations of a self-assembled arene ruthenium rectangle obtained from a combination of coordination and hydrogen bonds. Dalton Transactions, 2016, 45, 1410-1421.	1.6	8
29	Cross-term Splittings Due to the Orientational Inequivalence of Proton Magnetic Shielding Tensors: Do Water Molecules Trapped in Crystals Hop or Tunnel?. Journal of Physical Chemistry Letters, 2019, 10, 3224-3231.	2.1	8
30	Selfâ€Assembly of DNA and RNA Building Blocks Explored by Nitrogenâ€14 NMR Crystallography: Structure and Dynamics. ChemPhysChem, 2020, 21, 1044-1051.	1.0	7
31	Composite pulses for efficient excitation of half-integer quadrupolar nuclei in NMR of static and spinning solid samples. Chemical Physics Letters, 2012, 530, 120-125.	1.2	6
32	Homonuclear decoupling for spectral simplification of carbon-13 enriched molecules in solution-state NMR enhanced by dissolution DNP. Physical Chemistry Chemical Physics, 2016, 18, 11480-11487.	1.3	6
33	Exciting Wide NMR Spectra of Static Solid Samples with Weak Radiofrequency Fields. Zeitschrift Fur Physikalische Chemie, 2017, 231, 527-543.	1.4	5
34	Effects of Microwave Gating on Nuclear Spin Echoes in Dynamic Nuclear Polarization. Journal of Physical Chemistry Letters, 2022, 13, 175-182.	2.1	5
35	Solid-state carbon-13 NMR and computational characterization of the N719 ruthenium sensitizer adsorbed on TiO2 nanoparticles. Dalton Transactions, 2014, 43, 6389.	1.6	4
36	Orientation-Dependent Proton Relaxation of Water Molecules Trapped in Solids: Crystallites with Long-Lived Magnetization. Journal of Physical Chemistry A, 2019, 123, 9763-9769.	1.1	4

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37	Dynamic Nuclear Polarization and Other Magnetic Ideas at EPFL. Chimia, 2012, 66, 734.	0.3	3
38	How to Tickle Spins with a Fourier Transform NMR Spectrometer. ChemPhysChem, 2013, 14, 369-373.	1.0	2
39	Extending Timescales and Narrowing Linewidths in NMR. Chimia, 2011, 65, 652.	0.3	0
40	Nitrogen-14 NMR Spectroscopy. , 2021, , .		0