Piotr Paluch

List of Publications by Year
in descending order

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44 papers	712 citations	567281 15 h-index	580821 25 g-index
44 all docs	44 docs citations	44 times ranked	902 citing authors

#	Article	IF	Citations
1	Study of Intermolecular Interactions in the Corrole Matrix by Solidâ€State NMR under 100â€…kHz MAS and Theoretical Calculations. Angewandte Chemie - International Edition, 2013, 52, 14108-14111.	13.8	86
2	Simple and accurate determination of Xâ€“H distances under ultra-fast MAS NMR. Journal of Magnetic Resonance, 2013, 233, 56-63.	2.1	59
3	¹H-Detected Biomolecular NMR under Fast Magic-Angle Spinning. Chemical Reviews, 2022, 122, 9943-10018.	47.7	51
4	Ibuprofen in Mesopores of Mobil Crystalline Material 41 (MCM-41): A Deeper Understanding. Molecular Pharmaceutics, 2014, 11, 1512-1519.	4.6	45
5	Automated Backbone NMR Resonance Assignment of Large Proteins Using Redundant Linking from a Single Simultaneous Acquisition. Journal of the American Chemical Society, 2020, 142, 5793-5799.	13.7	41
6	Dynamic Motion of Organic Spacer Cations in Ruddlesdenâ€“Popper Lead Iodide Perovskites Probed by Solid-State NMR Spectroscopy. Chemistry of Materials, 2021, 33, 642-656.	6.7	33
7	NMR Study of BA/FBA Cocrystal Confined Within Mesoporous Silica Nanoparticles Employing Thermal Solid Phase Transformation. Journal of Physical Chemistry C, 2015, 119, 8652-8661.	3.1	27
8	Fine refinement of solid state structure of racemic form of phospho-tyrosine employing NMR Crystallography approach. Solid State Nuclear Magnetic Resonance, 2015, 65, 2-11.	2.3	24
9	Insights into the Tautomerism in mesoâ€Substituted Corroles: A Variableâ€Temperature ¹H, ¹³C, ¹⁵N, and ¹⁹Fâ€…NMR Spectroscopy Study. Chemistry - A European Journal, 2014, 20, 1720-1730.	3.3	21
10	A DFT Study of the Kinetic Isotope Effects on the Competing S_N2 and E2 Reactions between Hypochlorite Anion and Ethyl Chloride. Journal of Chemical Theory and Computation, 2009, 5, 33-36.	5.3	20
11	Analysis of local molecular motions of aromatic sidechains in proteins by 2D and 3D fast MAS NMR spectroscopy and quantum mechanical calculations. Physical Chemistry Chemical Physics, 2015, 17, 28789-28801.	2.8	19
12	Approach toward the Understanding of Coupling Mechanism for EDC Reagent in Solvent-Free Mechanosynthesis. Organic Letters, 2017, 19, 5360-5363.	4.6	19
13	Crystal structure determination of an elusive methanol solvate â€“ hydrate of catechin using crystal structure prediction and NMR crystallography. CrystEngComm, 2020, 22, 4969-4981.	2.6	19
14	Imaging the spatial distribution of radiofrequency field, sample and temperature in MAS NMR rotor. Solid State Nuclear Magnetic Resonance, 2017, 87, 137-142.	2.3	17
15	Application of 1H and 27Al magic angle spinning solid state NMR at 60 kHz for studies of Au and Au-Ni catalysts supported on boehmite/alumina. Solid State Nuclear Magnetic Resonance, 2017, 84, 111-117.	2.3	15
16	Evaluation of excitation schemes for indirect detection of 14N via solid-state HMQC NMR experiments. Journal of Magnetic Resonance, 2019, 303, 28-41.	2.1	15
17	Understanding the formation of apremilast cocrystals. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 803-814.	1.1	15
18	Study of hostâ€“guest interactions in benzodiazacoronands by means of solid state NMR spectroscopy, X-ray diffraction and quantum mechanical computations. Physical Chemistry Chemical Physics, 2011, 13, 6423.	2.8	14

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19	Synthesis, characterization, and catalytic activity for thioanisole oxidation of homogeneous and heterogeneous binuclear manganese(II) complexes with amino acid-based ligands. Transition Metal Chemistry, 2013, 38, 511-521.	1.4	14
20	Study of the thermal processes in molecular crystals of peptides by means of NMR crystallography. CrystEngComm, 2013, 15, 8680.	2.6	14
21	Analysis of HMQC experiments applied to a spin Â½ nucleus subject to very large CSA. Solid State Nuclear Magnetic Resonance, 2019, 100, 11-25.	2.3	14
22	Crystal structures of two furazidin polymorphs revealed by a joint effort of crystal structure prediction and NMR crystallography. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 322-335.	1.1	13
23	Photosensitive nanocapsules for use in imaging from poly(styrene-co-divinylbenzene) cross-linked with coumarin derivatives. Colloids and Surfaces B: Biointerfaces, 2013, 111, 571-578.	5.0	12
24	The structure of cyclolinopeptide A in chloroform refined by RDC measurements. Journal of Peptide Science, 2014, 20, 901-907.	1.4	11
25	In Depth Analysis of Chiroptical Properties of Enones Derived from Abietic Acid. Journal of Organic Chemistry, 2018, 83, 3547-3561.	3.2	8
26	Combined solid state NMR and ONIOM studies of reversible crystalline phase reaction for nickel coordination compounds. Solid State Nuclear Magnetic Resonance, 2009, 36, 103-109.	2.3	7
27	Stereoselective cyclopropyl phosphonate formation using (S)-dimethylsulfonium-(p-tolylsulfinyl)methylide. Unusual phosphoryl group migration. Tetrahedron Letters, 2013, 54, 223-226.	1.4	7
28	Recent Progress in the Solid-State NMR Studies of Short Peptides. Annual Reports on NMR Spectroscopy, 2014, , 67-143.	1.5	7
29	Full Characterization of Linezolid and Its Synthetic Precursors by Solid-State Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry. Journal of Pharmaceutical Sciences, 2015, 104, 3883-3892.	3.3	7
30	A Multi-Technique Experimental and Computational Approach To Study the Dehydration Processes in the Crystals of Endomorphin Opioid Peptide Derivative. Crystal Growth and Design, 2016, 16, 5312-5322.	3.0	7
31	Ï€-Philic Molecular Recognition in the Solid State as a Driving Force for Mechanochemical Formation of Apremilast Solvates and Cocrystals. Crystal Growth and Design, 2018, 18, 3959-3970.	3.0	7
32	Chiral crystals from porphyrinoids possessing a very low racemization barrier. CrystEngComm, 2016, 18, 3561-3565.	2.6	6
33	1 H- 31 P CPVC NMR method under Very Fast Magic Angle Spinning for analysis of dipolar interactions and dynamics processes in the crystalline phosphonium tetrafluoroborate salts. Solid State Nuclear Magnetic Resonance, 2017, 87, 96-103.	2.3	6
34	New synthetic pathway leading to oxospirochlorins. RSC Advances, 2018, 8, 21354-21362.	3.6	6
35	Magic angle spinning NMR study of interaction of N-terminal sequence of dermorphin (Tyr-d-Ala-Phe-Gly) with phospholipids. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2579-2587.	2.6	5
36	NMR Assignment of Methyl Groups in Immobilized Proteins Using Multiple-Bond 13C Homonuclear Transfers, Proton Detection, and Very Fast MAS. Frontiers in Molecular Biosciences, 2022, 9, 828785.	3.5	5

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37	Spontaneous Ketoâ€“Enol Tautomerization in the Crystal Lattice Visualized with the Help of Water Encapsulated in Hydrophilic Reservoirs. ChemPhysChem, 2017, 18, 2850-2854.	2.1	4
38	Study of the Mechanism of Thermal Chemical Processes in the Crystals of YAF Tripeptides by Means of Mass Spectrometry and Solid State NMR. Journal of Physical Chemistry B, 2013, 117, 13481-13489.	2.6	3
39	Simple and Robust Study of Backbone Dynamics of Crystalline Proteins Employing ¹Hâ€“¹⁵N Dipolar Coupling Dispersion. Journal of Physical Chemistry B, 2018, 122, 8146-8156.	2.6	3
40	Influence of Environmental Humidity on Organization and Molecular Dynamics of Heteromacrocyclic Assemblies. Journal of Physical Chemistry B, 2013, 117, 14420-14431.	2.6	2
41	Slow and Very Fast MAS Solid State NMR Study of Biopolymers. Macromolecular Symposia, 2014, 339, 60-69.	0.7	2
42	The ¹H, ¹³C, ¹⁵N, and ¹⁹F NMR chemical shifts assignments in 5,10,15â€tris (pentafluorophenyl)tetraâ€“¹⁵N corrole at 191â€‰K. Magnetic Resonance in Chemistry, 2015, 53, 167-171.	1.9	1
43	Hadamard acquisition of 13 Câ€“ 13 C 2â€Ð correlation NMR spectra. Magnetic Resonance in Chemistry, 2021, 59, 247-256.	1.9	1
44	The influence of the stereochemistry and C-end chemical modification of dermorphin derivatives on the peptide-phospholipid interactions. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183066.	2.6	0