

# 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	NMR Assignment of Methyl Groups in Immobilized Proteins Using Multiple-Bond $^{13}\text{C}$ Homonuclear Transfers, Proton Detection, and Very Fast MAS. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 828785.	3.5	5
2	$^1\text{H}$ -Detected Biomolecular NMR under Fast Magic-Angle Spinning. <i>Chemical Reviews</i> , 2022, 122, 9943-10018.	47.7	51
3	Hadamard acquisition of $^{13}\text{C}$ $^{13}\text{C}$ correlation NMR spectra. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 247-256.	1.9	1
4	Dynamic Motion of Organic Spacer Cations in Ruddlesden-Popper Lead Iodide Perovskites Probed by Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 642-656.	6.7	33
5	The influence of the stereochemistry and C-end chemical modification of dermorphin derivatives on the peptide-phospholipid interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183066.	2.6	0
6	Automated Backbone NMR Resonance Assignment of Large Proteins Using Redundant Linking from a Single Simultaneous Acquisition. <i>Journal of the American Chemical Society</i> , 2020, 142, 5793-5799.	13.7	41
7	Crystal structure determination of an elusive methanol solvate hydrate of catechin using crystal structure prediction and NMR crystallography. <i>CrystEngComm</i> , 2020, 22, 4969-4981.	2.6	19
8	Crystal structures of two furazidin polymorphs revealed by a joint effort of crystal structure prediction and NMR crystallography. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 322-335.	1.1	13
9	Analysis of HMQC experiments applied to a spin $\frac{1}{2}$ nucleus subject to very large CSA. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 100, 11-25.	2.3	14
10	Evaluation of excitation schemes for indirect detection of $^{14}\text{N}$ via solid-state HMQC NMR experiments. <i>Journal of Magnetic Resonance</i> , 2019, 303, 28-41.	2.1	15
11	Understanding the formation of apremilast cocrystals. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 803-814.	1.1	15
12	In Depth Analysis of Chiroptical Properties of Enones Derived from Abietic Acid. <i>Journal of Organic Chemistry</i> , 2018, 83, 3547-3561.	3.2	8
13	$\pi$ -Phylic Molecular Recognition in the Solid State as a Driving Force for Mechanochemical Formation of Apremilast Solvates and Cocrystals. <i>Crystal Growth and Design</i> , 2018, 18, 3959-3970.	3.0	7
14	Simple and Robust Study of Backbone Dynamics of Crystalline Proteins Employing $^1\text{H}$ - $^{15}\text{N}$ Dipolar Coupling Dispersion. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8146-8156.	2.6	3
15	New synthetic pathway leading to oxospirochlorins. <i>RSC Advances</i> , 2018, 8, 21354-21362.	3.6	6
16	Application of $^1\text{H}$ and $^{27}\text{Al}$ magic angle spinning solid state NMR at 60 kHz for studies of Au and Au-Ni catalysts supported on boehmite/alumina. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 111-117.	2.3	15
17	Approach toward the Understanding of Coupling Mechanism for EDC Reagent in Solvent-Free Mechanosynthesis. <i>Organic Letters</i> , 2017, 19, 5360-5363.	4.6	19
18	Spontaneous Keto-Enol Tautomerization in the Crystal Lattice Visualized with the Help of Water Encapsulated in Hydrophilic Reservoirs. <i>ChemPhysChem</i> , 2017, 18, 2850-2854.	2.1	4

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19	Imaging the spatial distribution of radiofrequency field, sample and temperature in MAS NMR rotor. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 137-142.	2.3	17
20	<sup>1</sup> H- <sup>31</sup> P CPVC NMR method under Very Fast Magic Angle Spinning for analysis of dipolar interactions and dynamics processes in the crystalline phosphonium tetrafluoroborate salts. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 96-103.	2.3	6
21	Chiral crystals from porphyrinoids possessing a very low racemization barrier. <i>CrystEngComm</i> , 2016, 18, 3561-3565.	2.6	6
22	A Multi-Technique Experimental and Computational Approach To Study the Dehydration Processes in the Crystals of Endomorphin Opioid Peptide Derivative. <i>Crystal Growth and Design</i> , 2016, 16, 5312-5322.	3.0	7
23	Full Characterization of Linezolid and Its Synthetic Precursors by Solid-State Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3883-3892.	3.3	7
24	The <sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N, and <sup>19</sup> F NMR chemical shifts assignments in 5,10,15-tris (pentafluorophenyl)tetra <sup>15</sup> N corrole at 191‰K. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 167-171.	1.9	1
25	Fine refinement of solid state structure of racemic form of phospho-tyrosine employing NMR Crystallography approach. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 65, 2-11.	2.3	24
26	NMR Study of BA/FBA Cocrystal Confined Within Mesoporous Silica Nanoparticles Employing Thermal Solid Phase Transformation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8652-8661.	3.1	27
27	Analysis of local molecular motions of aromatic sidechains in proteins by 2D and 3D fast MAS NMR spectroscopy and quantum mechanical calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28789-28801.	2.8	19
28	The structure of cyclolinopeptide A in chloroform refined by RDC measurements. <i>Journal of Peptide Science</i> , 2014, 20, 901-907.	1.4	11
29	Slow and Very Fast MAS Solid State NMR Study of Biopolymers. <i>Macromolecular Symposia</i> , 2014, 339, 60-69.	0.7	2
30	Recent Progress in the Solid-State NMR Studies of Short Peptides. <i>Annual Reports on NMR Spectroscopy</i> , 2014, , 67-143.	1.5	7
31	Ibuprofen in Mesopores of Mobil Crystalline Material 41 (MCM-41): A Deeper Understanding. <i>Molecular Pharmaceutics</i> , 2014, 11, 1512-1519.	4.6	45
32	Insights into the Tautomerism in <i>meso</i> -Substituted Corroles: A Variable Temperature <sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N, and <sup>19</sup> F NMR Spectroscopy Study. <i>Chemistry - A European Journal</i> , 2014, 20, 1720-1730.	3.3	21
33	Synthesis, characterization, and catalytic activity for thioanisole oxidation of homogeneous and heterogeneous binuclear manganese(II) complexes with amino acid-based ligands. <i>Transition Metal Chemistry</i> , 2013, 38, 511-521.	1.4	14
34	Study of the Mechanism of Thermal Chemical Processes in the Crystals of YAF Tripeptides by Means of Mass Spectrometry and Solid State NMR. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13481-13489.	2.6	3
35	Photosensitive nanocapsules for use in imaging from poly(styrene-co-divinylbenzene) cross-linked with coumarin derivatives. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 571-578.	5.0	12
36	Study of the thermal processes in molecular crystals of peptides by means of NMR crystallography. <i>CrystEngComm</i> , 2013, 15, 8680.	2.6	14

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37	Stereoselective cyclopropyl phosphonate formation using (S)-dimethylsulfonium-(p-tolylsulfinyl)methylide. Unusual phosphoryl group migration. <i>Tetrahedron Letters</i> , 2013, 54, 223-226.	1.4	7
38	Simple and accurate determination of $X-H$ distances under ultra-fast MAS NMR. <i>Journal of Magnetic Resonance</i> , 2013, 233, 56-63.	2.1	59
39	Influence of Environmental Humidity on Organization and Molecular Dynamics of Heteromacrocyclic Assemblies. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14420-14431.	2.6	2
40	Study of Intermolecular Interactions in the Corrole Matrix by Solid-State NMR under 100 kHz MAS and Theoretical Calculations. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14108-14111.	13.8	86
41	Magic angle spinning NMR study of interaction of N-terminal sequence of dermorphin (Tyr-d-Ala-Phe-Gly) with phospholipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2579-2587.	2.6	5
42	Study of host-guest interactions in benzodiazacoronands by means of solid state NMR spectroscopy, X-ray diffraction and quantum mechanical computations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6423.	2.8	14
43	Combined solid state NMR and ONIOM studies of reversible crystalline phase reaction for nickel coordination compounds. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 103-109.	2.3	7
44	A DFT Study of the Kinetic Isotope Effects on the Competing $S_N2$ and E2 Reactions between Hypochlorite Anion and Ethyl Chloride. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 33-36.	5.3	20