

Marek J Potrzebowski

List of Publications by Year in descending order

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80
papers

1,375
citations

361413

20
h-index

434195

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84
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docs citations

84
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of Intermolecular Interactions in the Corrole Matrix by Solid-State NMR under 100â€¦kHz MAS and Theoretical Calculations. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14108-14111.	13.8	86
2	Mesoporous Silica Particles as Drug Delivery Systemsâ€”The State of the Art in Loading Methods and the Recent Progress in Analytical Techniques for Monitoring These Processes. <i>Pharmaceutics</i> , 2021, 13, 950.	4.5	66
3	An Experimental and Theoretical Study of the ¹³ C and ³¹ P Chemical Shielding Tensors in Solid O-Phosphorylated Amino Acids. <i>Journal of the American Chemical Society</i> , 2003, 125, 4223-4232.	13.7	64
4	Simple and accurate determination of Xâ€”H distances under ultra-fast MAS NMR. <i>Journal of Magnetic Resonance</i> , 2013, 233, 56-63.	2.1	59
5	Recent progress in solid-state NMR studies of drugs confined within drug delivery systems. <i>Solid State Nuclear Magnetic Resonance</i> , 2014, 57-58, 2-16.	2.3	49
6	Ibuprofen in Mesopores of Mobil Crystalline Material 41 (MCM-41): A Deeper Understanding. <i>Molecular Pharmaceutics</i> , 2014, 11, 1512-1519.	4.6	45
7	NMR crystallography of Î±-poly(L-lactide). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3137.	2.8	39
8	Thermal Solvent-Free Method of Loading of Pharmaceutical Cocrystals into the Pores of Silica Particles: A Case of Naproxen/Picolinamide Cocrystal. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13169-13180.	3.1	37
9	Solid State NMR Characterization of Ibuprofen:Nicotinamide Cocrystals and New Idea for Controlling Release of Drugs Embedded into Mesoporous Silica Particles. <i>Molecular Pharmaceutics</i> , 2017, 14, 1800-1810.	4.6	35
10	Virtual Cocrystal Screening Methods as Tools to Understand the Formation of Pharmaceutical Cocrystalsâ€”A Case Study of Linezolid, a Wide-Range Antibacterial Drug. <i>Crystal Growth and Design</i> , 2021, 21, 2301-2314.	3.0	34
11	Chlorins with (trifluoromethyl)phenyl substituents â€” Synthesis, lipid formulation and photodynamic activity against bacteria. <i>Dyes and Pigments</i> , 2019, 160, 292-300.	3.7	32
12	Theoretical study of CP-VC: A simple, robust and accurate MAS NMR method for analysis of dipolar Câ€”H interactions under rotation speeds faster than ca. 60kHz. <i>Journal of Magnetic Resonance</i> , 2015, 252, 67-77.	2.1	31
13	Computed and Experimental Chemical Shift Parameters for Rigid and Flexible YAF Peptides in the Solid State. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1974-1983.	2.6	30
14	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
15	Accurate NMR determination of Câ€”H or Nâ€”H distances for unlabeled molecules. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 73, 15-21.	2.3	27
16	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
17	Conformational studies of N-benzoyl-L-phenylalanine by combined rotation and multiple-pulse spectroscopy proton nuclear magnetic resonance. <i>Journal of the American Chemical Society</i> , 1990, 112, 881-883.	13.7	23
18	Lipid vesicle-loaded meso-substituted chlorins of high in vitro antimicrobial photodynamic activity. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 213-223.	2.9	23

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19	X-ray and Nuclear Magnetic Resonance (NMR) Studies of Signalizing the Tripeptide Sequence (Tyr-D-Ala-Phe) of Dermorphin and Deltorphins I and II. Comparative Analysis in the Liquid and Solid Phases. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4535-4545.	2.6	22
20	Fine Refinement of Solid-State Molecular Structures of Leu- and Met-Enkephalins by NMR Crystallography. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3298-3309.	2.6	22
21	DiSupLo - New extremely easy and efficient method for loading of active pharmaceutical ingredients into the pores of MCM-41 mesoporous silica particles. <i>Microporous and Mesoporous Materials</i> , 2020, 308, 110506.	4.4	21
22	Phosphorus-31 NMR Spectroscopy of Condensed Matter. <i>Annual Reports on NMR Spectroscopy</i> , 2010, 70, 35-114.	1.5	20
23	The comparison of approaches to the solid-state NMR-based structural refinement of vitamin B1 hydrochloride and of its monohydrate. <i>Chemical Physics Letters</i> , 2013, 555, 135-140.	2.6	20
24	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
25	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
26	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
27	Probing molecular geometry of solids by nuclear magnetic resonance spin exchange at the $n=0$ rotational-resonance condition. <i>Journal of Chemical Physics</i> , 2002, 116, 7607-7616.	3.0	18
28	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
29	High-Resolution Solid-State NMR Studies of Inclusion Complexes. <i>Topics in Current Chemistry</i> , 2005, 246, 91-140.	4.0	16
30	Mapping of Guest Localization in Mesoporous Silica Particles by Solid-State NMR and <i>Ab Initio</i> Modeling: New Insights into Benzoic Acid and <i>p</i> -Fluorobenzoic Acid Embedded in MCM-41 via Ball Milling. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10096-10109.	3.1	16
31	A review on advances of high-resolution solid state NMR spectroscopy in structural studies of polymer/clay nanocomposites. <i>Polimery</i> , 2007, 52, 713-721.	0.7	16
32	A New Method for Distinguishing between Enantiomers and Racemates and Assignment of Enantiomeric Purity by Means of Solid-State NMR. Examples from Oxazaphosphorinanes. <i>Chemistry - A European Journal</i> , 2002, 8, 5007-5011.	3.3	15
33	Computational and experimental study of reversible hydration/dehydration processes in molecular crystals of natural products “a case of catechin. <i>CrystEngComm</i> , 2016, 18, 5267-5277.	2.6	15
34	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
35	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
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	NMR studies of chiral organic compounds in nonisotropic phases. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2008, 32A, 201-218.	0.5	13
38	The Influence of the Stereochemistry of Alanine Residue on the Solid State Conformation and Crystal Packing of Opioid Peptides Containing d-Ala or l-Ala in Message Domain – XRD and NMR Study. Journal of Physical Chemistry B, 2011, 115, 9910-9919.	2.6	13
39	Experimental tests for quality validation of computationally predicted crystal structures – a case of a conformationally flexible procyanidin A-2 dihydrate. CrystEngComm, 2017, 19, 2903-2913.	2.6	13
40	Studies of Solvate and Inclusion Complexes of Bis[6-O,6-O'-(1,2:3,4-Diisopropylidene- α -D-galactopyranosyl)-thiophosphoryl] Disulfide in the Solid State by NMR and X-ray Methods. Journal of Organic Chemistry, 1995, 60, 2549-2562.	3.2	12
41	X-ray, ^{31}P CP/MAS, and Single-crystal NMR Studies, and ^{31}P DFT GIAO Calculations of Inclusion Complexes of Bis[6-O,6-O 2 -(1,2:3,4-Diisopropylidene- β -D-galactopyranosyl)thiophosphoryl] Disulfide: The Importance of C-H \cdots S \cdots P Contacts in the Solid State. Chemistry - A European Journal, 2002, 8, 2691.	3.3	12
42	^{31}P double-quantum solid-state NMR study of phosphoroorganic compounds with (O)P \cdots O \cdots P(O), (S)P \cdots O \cdots P(S) and (S)P \cdots S \cdots P(O) unit. Solid State Nuclear Magnetic Resonance, 2006, 30, 141-149.	2.3	12
43	Synthesis, Structure, and Local Molecular Dynamics for Crystalline Rotors Based on Hecogenin/Botogenin Steroidal Frameworks. Crystal Growth and Design, 2016, 16, 5698-5709.	3.0	12
44	Application of 1-Hydroxy-4,5-Dimethyl-Imidazole 3-Oxide as Coformer in Formation of Pharmaceutical Cocrystals. Pharmaceutics, 2020, 12, 359.	4.5	12
45	Search of Nature of Planar Chirality for Pendent Benzodiazacoronands in the Solid State: ^1H NMR, X-ray, and DFT Studies. Journal of Physical Chemistry B, 2007, 111, 2790-2799.	2.6	11
46	Synthesis and Solid-State Study of Supramolecular Host \sim Guest Assemblies: Bis[6-O,6-O 2 -(1,2:3,4-diisopropylidene- β -D-galactopyranosyl)thiophosphoryl] Dichalcogenides. Journal of Organic Chemistry, 2008, 73, 4388-4397.	3.2	11
47	Solid-State NMR and X-ray Diffraction Study of Structure and Dynamics of Dihydrate and Anhydrous Form of Tyr-Ala-Phe. Crystal Growth and Design, 2009, 9, 4051-4059.	3.0	10
48	Modern solid state NMR techniques and concepts in structural studies of synthetic polymers. Polymers for Advanced Technologies, 2016, 27, 1143-1155.	3.2	10
49	Porous Molecular Capsules as Nonpolymeric Transducers of Mechanical Forces to Mechanophores. Chemistry - A European Journal, 2020, 26, 1558-1566.	3.3	10
50	Synergy of Solid-State NMR, Single-Crystal X-ray Diffraction, and Crystal Structure Prediction Methods: A Case Study of Teriflunomide (TFM). Crystal Growth and Design, 2021, 21, 3328-3343.	3.0	10
51	High-resolution solid-state NMR spectroscopy as a tool for investigation of enantioselective inclusion complexation. Solid State Nuclear Magnetic Resonance, 2007, 31, 153-161.	2.3	9
52	Elucidation of Structural Restraints for Phosphate Residues with Different Hydrogen Bonding and Ionization States. Journal of Physical Chemistry B, 2008, 112, 14036-14044.	2.6	9
53	Solid-State NMR Studies of Molecular Crystals. Annual Reports on NMR Spectroscopy, 2018, 95, 1-81.	1.5	9
54	In Depth Analysis of Chiroptical Properties of Enones Derived from Abietic Acid. Journal of Organic Chemistry, 2018, 83, 3547-3561.	3.2	8

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55	Influence of Hydrogen/Fluorine Substitution on Structure, Thermal Phase Transitions, and Internal Molecular Motion of Aromatic Residues in the Crystal Lattice of Steroidal Rotors. <i>Crystal Growth and Design</i> , 2020, 20, 2202-2216.	3.0	8
56	Study of Molecular Dynamics and the Solid State Phase Transition Mechanism for Unsymmetrical Thiopyrophosphate Using X-ray Diffraction, DFT Calculations and NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 761-771.	2.6	7
57	Recent Progress in the Solid-State NMR Studies of Short Peptides. <i>Annual Reports on NMR Spectroscopy</i> , 2014, , 67-143.	1.5	7
58	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
59	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
60	Structure and dynamics processes in free-base chlorins controlled by chemical modifications of macroring and aryl groups in meso-positions. <i>RSC Advances</i> , 2017, 7, 24795-24805.	3.6	7
61	Ï€-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
62	Cocrystals – Divorce and Marriage – When a Binary System Meets an Active Multifunctional Synthone in a Ball Mill. <i>Chemistry - A European Journal</i> , 2020, 26, 13264-13273.	3.3	7
63	Chiral crystals from porphyrinoids possessing a very low racemization barrier. <i>CrystEngComm</i> , 2016, 18, 3561-3565.	2.6	6
64	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. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 96-103.	2.3	6
65	New synthetic pathway leading to oxospirochlorins. <i>RSC Advances</i> , 2018, 8, 21354-21362.	3.6	6
66	Fast and very fast MAS solid state NMR studies of pharmaceuticals. <i>Annual Reports on NMR Spectroscopy</i> , 2021, , 97-189.	1.5	6
67	Investigation of solute–solvent interactions in a dithiophosphoroorganic carbohydrate derivative by means of X-ray analysis and solid state NMR. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 2163-2170.	0.9	5
68	Understanding self-organization of the inclusion complexes in the solid state-DSC, NMR and DFT studies. <i>Journal of Physical Organic Chemistry</i> , 2006, 19, 53-60.	1.9	5
69	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
70	Two-dimensional and variable temperature ³¹ P solid-state NMR studies of single crystals containing symmetrical/unsymmetrical bis[6-O,6-O- ² -(1,2:3,4-diisopropylidene-1,2-D-galactopyranosyl)thiophosphoryl] dichalcogenides Electronic supplementary information (ESI) available: ⁷⁷ Se CP/MAS spectra of untreated and heated crystals, and DSC profile. See http://www.rsc.org/suppdata/cc/b2/b204627j/ . <i>Chemical Communications</i> , 2002, , 1582-1583.	4.1	4
71	Application of parylene for surface (polymer) enhanced laser desorption/ionization of synthetic polymers. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 767-772.	1.5	4
72	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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73	Structural variety of heterosynthons in linezolid cocrystals with modified thermal properties. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 892-912.	1.1	4
74	Oxospirochlorins as new promising photosensitizers against priority pathogens. <i>Dyes and Pigments</i> , 2022, 201, 110240.	3.7	4
75	Comparative analysis of NMR spectral parameters and molecular dynamics of 1:6-anhydro-3:4-thia-2-O-tosyl- β -D-allopyranose and 1,6:3,4-dianhydro-2-O-tosyl- β -D-galactopyranose in the solid phase. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 602-609.	1.9	3
76	Simple and Robust Study of Backbone Dynamics of Crystalline Proteins Employing ^{15}N Dipolar Coupling Dispersion. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8146-8156.	2.6	3
77	Slow and Very Fast MAS Solid State NMR Study of Biopolymers. <i>Macromolecular Symposia</i> , 2014, 339, 60-69.	0.7	2
78	Solid-State Study of the Structure, Dynamics, and Thermal Processes of Safinamide Mesylate – A New Generation Drug for the Treatment of Neurodegenerative Diseases. <i>Molecular Pharmaceutics</i> , 2021, , .	4.6	2
79	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
80	Single-Crystal X-ray and Solid-State NMR Characterisation of AND-1184 and Its Hydrochloride Form. <i>Materials</i> , 2021, 14, 7175.	2.9	0