

Marek J Potrzebowski

List of Publications by Year in descending order

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80
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1,375
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361045

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433756

31
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84
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84
docs citations

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times ranked

1246
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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. | 7.2 | 86 |
| 2 | Mesoporous Silica Particles as Drug Delivery Systems – 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. | 2.0 | 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. | 6.6 | 64 |
| 4 | Simple and accurate determination of ^1H distances under ultra-fast MAS NMR. <i>Journal of Magnetic Resonance</i> , 2013, 233, 56-63. | 1.2 | 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. | 1.5 | 49 |
| 6 | Ibuprofen in Mesopores of Mobil Crystalline Material 41 (MCM-41): A Deeper Understanding. <i>Molecular Pharmaceutics</i> , 2014, 11, 1512-1519. | 2.3 | 45 |
| 7 | NMR crystallography of \pm -poly(L-lactide). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3137. | 1.3 | 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. | 1.5 | 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. | 2.3 | 35 |
| 10 | Virtual Cocrystal Screening Methods as Tools to Understand the Formation of Pharmaceutical Cocrystals – A Case Study of Linezolid, a Wide-Range Antibacterial Drug. <i>Crystal Growth and Design</i> , 2021, 21, 2301-2314. | 1.4 | 34 |
| 11 | Chlorins with (trifluoromethyl)phenyl substituents – Synthesis, lipid formulation and photodynamic activity against bacteria. <i>Dyes and Pigments</i> , 2019, 160, 292-300. | 2.0 | 32 |
| 12 | Theoretical study of CP-VC: A simple, robust and accurate MAS NMR method for analysis of dipolar ^1H interactions under rotation speeds faster than ca. 60 kHz. <i>Journal of Magnetic Resonance</i> , 2015, 252, 67-77. | 1.2 | 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. | 1.2 | 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. | 1.5 | 27 |
| 15 | Accurate NMR determination of ^1H or ^{15}N distances for unlabeled molecules. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 73, 15-21. | 1.5 | 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. | 1.5 | 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. | 6.6 | 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. | 1.6 | 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. | 1.2 | 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. | 1.2 | 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. | 2.2 | 21 |
| 22 | Phosphorus-31 NMR Spectroscopy of Condensed Matter. <i>Annual Reports on NMR Spectroscopy</i> , 2010, 70, 35-114. | 0.7 | 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. | 1.2 | 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. | 1.3 | 19 |
| 25 | Approach toward the Understanding of Coupling Mechanism for EDC Reagent in Solvent-Free Mechanosynthesis. <i>Organic Letters</i> , 2017, 19, 5360-5363. | 2.4 | 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. | 1.3 | 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. | 1.2 | 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. | 1.5 | 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. | 1.5 | 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. | 0.4 | 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. | 1.7 | 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. | 1.3 | 15 |
| 34 | Understanding the formation of apremilast cocrystals. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 803-814. | 0.5 | 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. | 1.3 | 14 |
| 36 | Study of the thermal processes in molecular crystals of peptides by means of NMR crystallography. <i>CrystEngComm</i> , 2013, 15, 8680. | 1.3 | 14 |

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|----|---|-----|-----------|
| 37 | NMR studies of chiral organic compounds in non-isotropic phases. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2008, 32A, 201-218. | 0.2 | 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. | 1.2 | 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. | 1.3 | 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. | 1.7 | 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 $^{\prime 2}$ -(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. | 1.7 | 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. | 1.5 | 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. | 1.4 | 12 |
| 44 | Application of 1-Hydroxy-4,5-Dimethyl-Imidazole 3-Oxide as Coformer in Formation of Pharmaceutical Cocrystals. Pharmaceutics, 2020, 12, 359. | 2.0 | 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. | 1.2 | 11 |
| 46 | Synthesis and Solid-State Study of Supramolecular Host \cdots Guest Assemblies: Bis[6-O,6-O $^{\prime 2}$ -(1,2:3,4-diisopropylidene- β -D-galactopyranosyl)thiophosphoryl] Dichalcogenides. Journal of Organic Chemistry, 2008, 73, 4388-4397. | 1.7 | 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. | 1.4 | 10 |
| 48 | Modern solid state NMR techniques and concepts in structural studies of synthetic polymers. Polymers for Advanced Technologies, 2016, 27, 1143-1155. | 1.6 | 10 |
| 49 | Porous Molecular Capsules as Non-Polymeric Transducers of Mechanical Forces to Mechanophores. Chemistry - A European Journal, 2020, 26, 1558-1566. | 1.7 | 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. | 1.4 | 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. | 1.5 | 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. | 1.2 | 9 |
| 53 | Solid-State NMR Studies of Molecular Crystals. Annual Reports on NMR Spectroscopy, 2018, 95, 1-81. | 0.7 | 9 |
| 54 | In Depth Analysis of Chiroptical Properties of Enones Derived from Abietic Acid. Journal of Organic Chemistry, 2018, 83, 3547-3561. | 1.7 | 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. | 1.4 | 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. | 1.2 | 7 |
| 57 | Recent Progress in the Solid-State NMR Studies of Short Peptides. <i>Annual Reports on NMR Spectroscopy</i> , 2014, , 67-143. | 0.7 | 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. | 1.6 | 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. | 1.4 | 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. | 1.7 | 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. | 1.4 | 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. | 1.7 | 7 |
| 63 | Chiral crystals from porphyrinoids possessing a very low racemization barrier. <i>CrystEngComm</i> , 2016, 18, 3561-3565. | 1.3 | 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. | 1.5 | 6 |
| 65 | New synthetic pathway leading to oxospirochlorins. <i>RSC Advances</i> , 2018, 8, 21354-21362. | 1.7 | 6 |
| 66 | Fast and very fast MAS solid state NMR studies of pharmaceuticals. <i>Annual Reports on NMR Spectroscopy</i> , 2021, , 97-189. | 0.7 | 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. | 0.9 | 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. | 1.4 | 5 |
| 70 | Two-dimensional and variable temperature 31P solid-state NMR studies of single crystals containing symmetrical/unsymmetrical bis[6-O,6-O"-(1,2:3,4-diisopropylidene-1,2-D-galactopyranosyl)thiophosphoryl] dichalcogenides Electronic supplementary information (ESI) available: 77Se 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. | 2.2 | 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. | 0.7 | 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. | 1.0 | 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. | 0.5 | 4 |
| 74 | Oxospirochlorins as new promising photosensitizers against priority pathogens. <i>Dyes and Pigments</i> , 2022, 201, 110240. | 2.0 | 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. | 0.9 | 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. | 1.2 | 3 |
| 77 | Slow and Very Fast MAS Solid State NMR Study of Biopolymers. <i>Macromolecular Symposia</i> , 2014, 339, 60-69. | 0.4 | 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, , . | 2.3 | 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. | 1.4 | 0 |
| 80 | Single-Crystal X-ray and Solid-State NMR Characterisation of AND-1184 and Its Hydrochloride Form. <i>Materials</i> , 2021, 14, 7175. | 1.3 | 0 |