Marek J Potrzebowski

List of Publications by Year
in descending order

80 papers	1,375 citations	361045 20 h-index	433756 31 g-index
84 all docs	84 docs citations	84 times ranked	1246 citing authors

#	Article	IF	Citations
1	Oxospirochlorins as new promising photosensitizers against priority pathogens. Dyes and Pigments, 2022, 201, 110240.	2.0	4
2	Fast and very fast MAS solid state NMR studies of pharmaceuticals. Annual Reports on NMR Spectroscopy, 2021, , 97-189.	0.7	6
3	Virtual Cocrystal Screening Methods as Tools to Understand the Formation of Pharmaceutical Cocrystalsâ€"A Case Study of Linezolid, a Wide-Range Antibacterial Drug. Crystal Growth and Design, 2021, 21, 2301-2314.	1.4	34
4	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
5	Mapping of Guest Localization in Mesoporous Silica Particles by Solid-State NMR and Ab Initio Modeling: New Insights into Benzoic Acid and p-Fluorobenzoic Acid Embedded in MCM-41 via Ball Milling. Journal of Physical Chemistry C, 2021, 125, 10096-10109.	1.5	16
6	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. Pharmaceutics, 2021, 13, 950.	2.0	66
7	Single-Crystal X-ray and Solid-State NMR Characterisation of AND-1184 and Its Hydrochloride Form. Materials, 2021, 14, 7175.	1.3	0
8	Solid-State Study of the Structure, Dynamics, and Thermal Processes of Safinamide Mesylateâ"€A New Generation Drug for the Treatment of Neurodegenerative Diseases. Molecular Pharmaceutics, 2021, , .	2.3	2
9	Porous Molecular Capsules as Nonâ€Polymeric Transducers of Mechanical Forces to Mechanophores. Chemistry - A European Journal, 2020, 26, 1558-1566.	1.7	10
10	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.	1.4	0
11	DiSupLo - New extremely easy and efficient method for loading of active pharmaceutical ingredients into the pores of MCM-41 mesoporous silica particles. Microporous and Mesoporous Materials, 2020, 308, 110506.	2.2	21
12	Cocrystals â€œDivorce and Marriageâ€: When a Binary System Meets an Active Multifunctional Synthon in a Ball Mill. Chemistry - A European Journal, 2020, 26, 13264-13273.	1.7	7
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.	1.3	19
14	Influence of Hydrogen/Fluorine Substitution on Structure, Thermal Phase Transitions, and Internal Molecular Motion of Aromatic Residues in the Crystal Lattice of Steroidal Rotors. Crystal Growth and Design, 2020, 20, 2202-2216.	1.4	8
15	Application of 1-Hydroxy-4,5-Dimethyl-Imidazole 3-Oxide as Coformer in Formation of Pharmaceutical Cocrystals. Pharmaceutics, 2020, 12, 359.	2.0	12
16	Structural variety of heterosynthons in linezolid cocrystals with modified thermal properties. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 892-912.	0.5	4
17	Chlorins with (trifluoromethyl)phenyl substituents â€“ Synthesis, lipid formulation and photodynamic activity against bacteria. Dyes and Pigments, 2019, 160, 292-300.	2.0	32
18	Lipid vesicle-loaded meso-substituted chlorins of high in vitro antimicrobial photodynamic activity. Photochemical and Photobiological Sciences, 2019, 18, 213-223.	1.6	23

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19	Understanding the formation of apremilast cocrystals. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 803-814.	0.5	15
20	In Depth Analysis of Chiroptical Properties of Enones Derived from Abietic Acid. Journal of Organic Chemistry, 2018, 83, 3547-3561.	1.7	8
21	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.	1.4	7
22	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.	1.2	3
23	Solid-State NMR Studies of Molecular Crystals. Annual Reports on NMR Spectroscopy, 2018, 95, 1-81.	0.7	9
24	New synthetic pathway leading to oxospirochlorins. RSC Advances, 2018, 8, 21354-21362.	1.7	6
25	Solid State NMR Characterization of Ibuprofen:Nicotinamide Cocrystals and New Idea for Controlling Release of Drugs Embedded into Mesoporous Silica Particles. Molecular Pharmaceutics, 2017, 14, 1800-1810.	2.3	35
26	Structure and dynamics processes in free-base chlorins controlled by chemical modifications of macroring and aryl groups in meso-positions. RSC Advances, 2017, 7, 24795-24805.	1.7	7
27	Experimental tests for quality validation of computationally predicted crystal structures â€“ a case of a conformationally flexible procyanidin A-2 dihydrate. CrystEngComm, 2017, 19, 2903-2913.	1.3	13
28	Approach toward the Understanding of Coupling Mechanism for EDC Reagent in Solvent-Free Mechanosynthesis. Organic Letters, 2017, 19, 5360-5363.	2.4	19
29	Spontaneous Ketoâ€“Enol Tautomerization in the Crystal Lattice Visualized with the Help of Water Encapsulated in Hydrophilic Reservoirs. ChemPhysChem, 2017, 18, 2850-2854.	1.0	4
30	Imaging the spatial distribution of radiofrequency field, sample and temperature in MAS NMR rotor. Solid State Nuclear Magnetic Resonance, 2017, 87, 137-142.	1.5	17
31	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.	1.5	6
32	Modern solid state NMR techniques and concepts in structural studies of synthetic polymers. Polymers for Advanced Technologies, 2016, 27, 1143-1155.	1.6	10
33	Computational and experimental study of reversible hydration/dehydration processes in molecular crystals of natural products â€“ a case of catechin. CrystEngComm, 2016, 18, 5267-5277.	1.3	15
34	Chiral crystals from porphyrinoids possessing a very low racemization barrier. CrystEngComm, 2016, 18, 3561-3565.	1.3	6
35	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.	1.4	7
36	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

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37	Thermal Solvent-Free Method of Loading of Pharmaceutical Cocrystals into the Pores of Silica Particles: A Case of Naproxen/Picolinamide Cocrystal. Journal of Physical Chemistry C, 2016, 120, 13169-13180.	1.5	37
38	Accurate NMR determination of Câ€“H or Nâ€“H distances for unlabeled molecules. Solid State Nuclear Magnetic Resonance, 2016, 73, 15-21.	1.5	27
39	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.	1.6	7
40	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. Journal of Magnetic Resonance, 2015, 252, 67-77.	1.2	31
41	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.	1.5	24
42	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.	1.5	27
43	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.	1.3	19
44	Slow and Very Fast MAS Solid State NMR Study of Biopolymers. Macromolecular Symposia, 2014, 339, 60-69.	0.4	2
45	Fine Refinement of Solid-State Molecular Structures of Leu- and Met-Enkephalins by NMR Crystallography. Journal of Physical Chemistry B, 2014, 118, 3298-3309.	1.2	22
46	Recent Progress in the Solid-State NMR Studies of Short Peptides. Annual Reports on NMR Spectroscopy, 2014, , 67-143.	0.7	7
47	Recent progress in solid-state NMR studies of drugs confined within drug delivery systems. Solid State Nuclear Magnetic Resonance, 2014, 57-58, 2-16.	1.5	49
48	Ibuprofen in Mesopores of Mobil Crystalline Material 41 (MCM-41): A Deeper Understanding. Molecular Pharmaceutics, 2014, 11, 1512-1519.	2.3	45
49	Study of the thermal processes in molecular crystals of peptides by means of NMR crystallography. CrystEngComm, 2013, 15, 8680.	1.3	14
50	Application of parylene for surface (polymer) enhanced laser desorption/ionization of synthetic polymers. Rapid Communications in Mass Spectrometry, 2013, 27, 767-772.	0.7	4
51	NMR crystallography of Î±-poly(l-lactide). Physical Chemistry Chemical Physics, 2013, 15, 3137.	1.3	39
52	The comparison of approaches to the solid-state NMR-based structural refinement of vitamin B1 hydrochloride and of its monohydrate. Chemical Physics Letters, 2013, 555, 135-140.	1.2	20
53	Simple and accurate determination of Xâ€“H distances under ultra-fast MAS NMR. Journal of Magnetic Resonance, 2013, 233, 56-63.	1.2	59
54	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.	7.2	86

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55	Computed and Experimental Chemical Shift Parameters for Rigid and Flexible YAF Peptides in the Solid State. Journal of Physical Chemistry B, 2012, 116, 1974-1983.	1.2	30
56	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.	1.4	5
57	The Influence of the Stereochemistry of Alanine Residue on the Solid State Conformation and Crystal Packing of Opioid Peptides Containingd-Ala orl-Ala in Message Domain â€“ XRD and NMR Study. Journal of Physical Chemistry B, 2011, 115, 9910-9919.	1.2	13
58	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.	1.3	14
59	Phosphorus-31 NMR Spectroscopy of Condensed Matter. Annual Reports on NMR Spectroscopy, 2010, 70, 35-114.	0.7	20
60	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
61	NMR studies of chiral organic compounds in nonâ€isotropic phases. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2008, 32A, 201-218.	0.2	13
62	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
63	Synthesis and Solid-State Study of Supramolecular Hostâ^'Guest Assemblies: Bis[6-O,6-Oâ€²-(1,2:3,4-diisopropylidene-Î±-d-galactopyranosyl)thiophosphoryl] Dichalcogenides. Journal of Organic Chemistry, 2008, 73, 4388-4397.	1.7	11
64	Search of Nature of Planar Chirality for Pendent Benzodiazacoronands in the Solid State:Â NMR, X-ray, and DFT Studies. Journal of Physical Chemistry B, 2007, 111, 2790-2799.	1.2	11
65	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
66	A review on advances of high-resolution solid state NMR spectroscopy in structural studies of polymer/clay nanocomposites. Polimery, 2007, 52, 713-721.	0.4	16
67	Study of Molecular Dynamics and the Solid State Phase Transition Mechanism for Unsymmetrical Thiopyrophosphate Using X-ray Diffraction, DFT Calculations and NMR Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 761-771.	1.2	7
68	Understanding self-organization of the inclusion complexes in the solid state-DSC, NMR and DFT studies. Journal of Physical Organic Chemistry, 2006, 19, 53-60.	0.9	5
69	31P double-quantum solid-state NMR study of phosphoroorganic compounds with (O)Pâ€“Oâ€“P-(O), (S)Pâ€“Oâ€“P(S) and (S)Pâ€“Sâ€“P(O) unit. Solid State Nuclear Magnetic Resonance, 2006, 30, 141-149.	1.5	12
70	Comparative analysis of NMR spectral parameters and molecular dynamics of 1:6-anhydro-3:4-thia-2-O-tosyl-Î²-D-allopyranose and 1,6:3,4-dianhydro-2-O-tosyl-Î²-D-galactopyranose in the solid phase. Journal of Physical Organic Chemistry, 2005, 18, 602-609.	0.9	3
71	High-Resolution Solid-State NMR Studies of Inclusion Complexes. Topics in Current Chemistry, 2005, 246, 91-140.	4.0	16
72	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. Journal of Physical Chemistry B, 2004, 108, 4535-4545.	1.2	22

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73	An Experimental and Theoretical Study of the13C and31P Chemical Shielding Tensors in Solid O-Phosphorylated Amino Acids. Journal of the American Chemical Society, 2003, 125, 4223-4232.	6.6	64
74	Probing molecular geometry of solids by nuclear magnetic resonance spin exchange at the n=0 rotational-resonance condition. Journal of Chemical Physics, 2002, 116, 7607-7616.	1.2	18
75	Two-dimensional and variable temperature 31P solid-state NMR studies of single crystals containing symmetrical/unsymmetrical bis[6-O,6-Oâ€²-(1,2:3,4-diisopropylidene-Î±-D-galactopyranosyl)thiophosphoryl] dichalcogenidesElectonic 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/. Chemical Communications, 2002, , 1582-1583.	2.2	4
76	X-ray, 31P CP/MAS, and Single-crystal NMR Studies, and 31P DFT GIAO Calculations of Inclusion Complexes of Bis[6-O,6-Oâ€²-(1,2:3,4-Diisopropylidene-Î±-D-galactopyranosyl)thiophosphoryl] Disulfide: The Importance of CbHâ‹…â‹…â‹…SdP Contacts in the Solid State. Chemistry - A European Journal, 2002, 8, 2691.	1.7	12
77	A New Method for Distinguishing between Enantiomers and Racemates and Assignment of Enantiomeric Purity by Means of Solid-State NMR. Examples from Oxazaphosphorinanes. Chemistry - A European Journal, 2002, 8, 5007-5011.	1.7	15
78	Investigation of soluteâ€“solvent interactions in a dithiophosphoroorganic carbohydrate derivative by means of X-ray analysis and solid state NMR. Journal of the Chemical Society Perkin Transactions II, 1999, , 2163-2170.	0.9	5
79	Studies of Solvate and Inclusion Complexes of Bis[6-O,6-O'-(1,2:3,4-Diisopropylidene-.alpha.-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
80	Conformational studies of N-benzoyl-L-phenylalanine by combined rotation and multiple-pulse spectroscopy proton nuclear magnetic resonance. Journal of the American Chemical Society, 1990, 112, 881-883.	6.6	23