Zdenek Tosner

List of Publications by Year
in descending order

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56	1,404	331670	361022
papers	citations	21 h-index	35 g-index

65	65	65	1670
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2D-to-3D zeolite transformation for the preparation of Pd@MWW catalysts with tuneable acidity. Catalysis Today, 2022, 390-391, 109-116.	4.4	6
2	Counterion-Induced Aggregation of Metallacarboranes. Journal of Physical Chemistry C, 2022, 126, 5735-5742.	3.1	9
3	Field and magic angle spinning frequency dependence of proton resonances in rotating solids. Progress in Nuclear Magnetic Resonance Spectroscopy, 2022, 130-131, 47-61.	7.5	2
4	Quantitative prediction of charge regulation in oligopeptides. Molecular Systems Design and Engineering, 2021, 6, 122-131.	3.4	18
5	Toward Controlling Disassembly Step within the ADOR Process for the Synthesis of Zeolites. Chemistry of Materials, 2021, 33, 1228-1237.	6.7	11
6	Polynorbornene-Based Polyelectrolytes with Covalently Attached Metallacarboranes: Synthesis, Characterization, and Lithium-Ion Mobility. Macromolecules, 2021, 54, 6867-6877.	4.8	4
7	Effects of radial radio-frequency field inhomogeneity on MAS solid-state NMR experiments. Magnetic Resonance, 2021, 2, 523-543.	1.9	6
8	Reversible multilayered vesicle-like structures with fluid hydrophobic and interpolyelectrolyte layers. Journal of Colloid and Interface Science, 2021, 599, 313-325.	9.4	5
9	Role of pKA in Charge Regulation and Conformation of Various Peptide Sequences. Polymers, 2021, 13, 214.	4.5	24
10	Maximizing efficiency of dipolar recoupling in solid-state NMR using optimal control sequences. Science Advances, 2021, 7, eabj5913.	10.3	11
11	A Study of Polarization and Directing Effects of Unsymmetrical Alkynes Using Regioselective Pdâ€Catalyzed Bromoallylation. European Journal of Organic Chemistry, 2020, 2020, 234-240.	2.4	4
12	Internal Structure of Thermoresponsive Physically Crosslinked Nanogel of Poly[N-(2-hydroxypropyl)methacrylamide]-Block-Poly[N-(2,2-difluoroethyl)acrylamide], Prominent 19F MRI Tracer. Nanomaterials, 2020, 10, 2231.	4.1	11
13	Designed Boronâ€Rich Polymeric Nanoparticles Based on Nanoâ€ion Pairing for Boron Delivery. Chemistry - A European Journal, 2020, 26, 14283-14289.	3.3	11
14	Versatile NMR simulations using SIMPSON. Annual Reports on NMR Spectroscopy, 2020, 100, 1-59.	1.5	13
15	Impact of Magnetic Field Strength on Resolution and Sensitivity of Proton Resonances in Biological Solids. Journal of Physical Chemistry C, 2020, 124, 22631-22637.	3.1	15
16	Using nutation-frequency-selective pulses to reduce radio-frequency field inhomogeneity in solid-state NMR. Magnetic Resonance, 2020, 1, 187-195.	1.9	9
17	MAS dependent sensitivity of different isotopomers in selectively methyl protonated protein samples in solid state NMR. Journal of Biomolecular NMR, 2019, 73, 625-631.	2.8	14
18	Total Description of Intrinsic Amphiphile Aggregation: Calorimetry Study and Molecular Probing. Langmuir, 2018, 34, 14448-14457.	3.5	13

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19	Overcoming Volume Selectivity of Dipolar Recoupling in Biological Solidâ€State NMR Spectroscopy. Angewandte Chemie, 2018, 130, 14722-14726.	2.0	1
20	Overcoming Volume Selectivity of Dipolar Recoupling in Biological Solidâ€State NMR Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 14514-14518.	13.8	31
21	Chiral Unsymmetrically Substituted Bipyridine N,Nâ€²â€Dioxides as Catalysts for the Allylation of Aldehydes. European Journal of Organic Chemistry, 2018, 2018, 5109-5116.	2.4	10
22	Magic-Angle Spinning Frequencies beyond 300 kHz Are Necessary To Yield Maximum Sensitivity in Selectively Methyl Protonated Protein Samples in Solid-State NMR. Journal of Physical Chemistry C, 2018, 122, 16437-16442.	3.1	33
23	A combined NMR and DFT study of conformational dynamics in lanthanide complexes of macrocyclic DOTA-like ligands. Physical Chemistry Chemical Physics, 2017, 19, 26662-26671.	2.8	26
24	Radiofrequency fields in MAS solid state NMR probes. Journal of Magnetic Resonance, 2017, 284, 20-32.	2.1	35
25	Limits of Resolution and Sensitivity of Proton Detected MAS Solid-State NMR Experiments at 111 kHz in Deuterated and Protonated Proteins. Scientific Reports, 2017, 7, 7444.	3.3	41
26	Probing Receptor Specificity by Sampling the Conformational Space of the Insulin-like Growth Factor II C-domain. Journal of Biological Chemistry, 2016, 291, 21234-21245.	3.4	22
27	The effect of tree species on seasonal fluctuations in water-soluble and hot water-extractable organic matter at post-mining sites. Geoderma, 2016, 275, 19-27.	5.1	36
28	Structural Insight into the 14-3-3 Protein-dependent Inhibition of Protein Kinase ASK1 (Apoptosis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.4	45
29	Stealth Amphiphiles: Self-Assembly of Polyhedral Boron Clusters. Langmuir, 2016, 32, 6713-6722.	3.5	69
30	Nickel(<scp>ii</scp>) complexes of N-CH₂CF₃ cyclam derivatives as contrast agents for ¹⁹F magnetic resonance imaging. Dalton Transactions, 2016, 45, 474-478.	3.3	24
31	Classical Amphiphilic Behavior of Nonclassical Amphiphiles: Aâ€…Comparison of Metallacarborane Selfâ€Assembly with SDS Micellization. Angewandte Chemie - International Edition, 2015, 54, 14113-14117.	13.8	57
32	Synthesis of C 3 -symmetric tri(alkylamino) guests and their interaction with cyclodextrins. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2015, 81, 141-152.	1.6	7
33	Molecular mechanism for the action of the anti-CD44 monoclonal antibody MEM-85. Journal of Structural Biology, 2015, 191, 214-223.	2.8	13
34	The in vivo Jâ€difference editing MEGAâ€PRESS technique for the detection of nâ€3 fatty acids. NMR in Biomedicine, 2014, 27, 1293-1299.	2.8	9
35	Backbone resonance assignments of human cytosolic dNT-1 nucleotidase. Biomolecular NMR Assignments, 2014, 8, 425-428.	0.8	1
36	Determination of thermodynamic values of acidic dissociation constants and complexation constants of profens and their utilization for optimization of separation conditions by Simul 5 Complex. Journal of Chromatography A, 2014, 1364, 276-288.	3.7	27

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37	Computer-intensive simulation of solid-state NMR experiments using SIMPSON. Journal of Magnetic Resonance, 2014, 246, 79-93.	2.1	143
38	Micellization of Zonyl FSN-100 fluorosurfactant in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 209-215.	4.7	12
39	Expanding the Scope of the Organocatalytic Addition of Fluorobis(phenylsulfonyl)methane to Enals: Enantioselective Cascade Synthesis of Fluoroindane and Fluorochromanol Derivatives. Advanced Synthesis and Catalysis, 2014, 356, 437-446.	4.3	19
40	Bis(phosphonate)â€Building Blocks Modified with Fluorescent Dyes. Heteroatom Chemistry, 2013, 24, 413-425.	0.7	3
41	Complexation of Buffer Constituents with Neutral Complexation Agents: Part I. Impact on Common Buffer Properties. Analytical Chemistry, 2013, 85, 8518-8525.	6.5	31
42	Thermodynamic and Kinetic Aspects of Coassembly of PEOâ€“PMAA Block Copolymer and DPCl Surfactants into Ordered Nanoparticles in Aqueous Solutions Studied by ITC, NMR, and Time-Resolved SAXS Techniques. Macromolecules, 2013, 46, 2172-2181.	4.8	48
43	Fast numerical design of spatial-selective rf pulses in MRI using Krotov and quasi-Newton based optimal control methods. Journal of Chemical Physics, 2012, 137, 054203.	3.0	52
44	Resolution-Enhanced Solid-State NMR 13Cî”13C Correlation Spectroscopy by Optimal Control Dipolar-Driven Spin-State-Selective Coherence Transfer. Journal of Physical Chemistry Letters, 2011, 2, 543-547.	4.6	10
45	Broadband heteronuclear dipolar recoupling without 1H decoupling in solid-state NMR using simple cross-polarization methods. Chemical Physics Letters, 2010, 494, 326-330.	2.6	12
46	Behavior of Two Almost Identical Spins during the CPMG Pulse Sequence. ChemPhysChem, 2010, 11, 638-645.	2.1	5
47	Optimal control in NMR spectroscopy: Numerical implementation in SIMPSON. Journal of Magnetic Resonance, 2009, 197, 120-134.	2.1	171
48	Optimal control design of NMR and dynamic nuclear polarization experiments using monotonically convergent algorithms. Journal of Chemical Physics, 2008, 128, 184505.	3.0	81
49	Rotational Dynamics of Adamantanecarboxylic Acid in Complex with Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2006, 55, 59-70.	1.6	13
50	Effective Hamiltonians by optimal control: Solid-state NMR double-quantum planar and isotropic dipolar recoupling. Journal of Chemical Physics, 2006, 125, 184502.	3.0	37
51	Dynamics of Chloromethanes in Cryptophane-E Inclusion Complexes:Â A2H Solid-State NMR and X-ray Diffraction Study. Journal of Physical Chemistry A, 2005, 109, 4442-4451.	2.5	20
52	A 13C solid-state NMR study of cryptophane-E:chloromethane inclusion complexes. Chemical Physics Letters, 2004, 388, 208-211.	2.6	22
53	Reorientational dynamics of two isomers of thiacalix[4]arene. Magnetic Resonance in Chemistry, 2003, 41, 819-827.	1.9	4
54	Dynamics of an Inclusion Complex of Dichloromethane and Cryptophane-E. Journal of Physical Chemistry A, 2002, 106, 8870-8875.	2.5	28

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55	Application of two-dimensional CSI for absolute quantification of phosphorus metabolites in the human liver. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 13, 40-46.	2.0	1
56	Insight into the Structure of a Comb Copolymerâ€“Surfactant Coacervate from Dynamic Measurements by DOSY NMR and Neutron Spin Echo Spectroscopy. Macromolecules, 0, , .	4.8	1