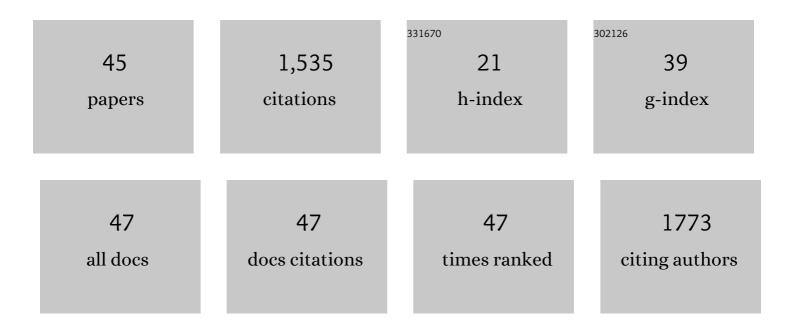
Asher Schmidt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Floquet theory of nuclear magnetic resonance spectroscopy of single spins and dipolar coupled spin pairs in rotating solids. Journal of Chemical Physics, 1992, 96, 2655-2680.	3.0	130
2	NMR line shape analysis for twoâ€site exchange in rotating solids. Journal of Chemical Physics, 1987, 87, 6895-6907.	3.0	103
3	Structural Constraints on the Ternary Complex of 5-Enolpyruvylshikimate-3-phosphate Synthase from Rotational-echo Double-resonance NMR. Journal of Molecular Biology, 1996, 256, 160-171.	4.2	84
4	Molecular control of quantum-dot internal electric field and its application to CdSe-based solar cells. Nature Materials, 2011, 10, 974-979.	27.5	84
5	In situ molecular NMR picture of bioavailable calcium stabilized as amorphous CaCO ₃ biomineral in crayfish gastroliths. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14763-14768.	7.1	82
6	Compatibilization of Polymer Blends by Complexation. 1. Spectroscopic Characterization of Ionâ^'Amide Interactions in Ionomer/Polyamide Blends. Macromolecules, 1996, 29, 3909-3917.	4.8	81
7	Phosphate–Water Interplay Tunes Amorphous Calcium Carbonate Metastability: Spontaneous Phase Separation and Crystallization vs Stabilization Viewed by Solid State NMR. Journal of the American Chemical Society, 2015, 137, 990-998.	13.7	76
8	Chemical exchange effects in the NMR spectra of rotating solids. Journal of Chemical Physics, 1986, 85, 4248-4253.	3.0	66
9	Solid-State 29Si NMR Study of RSiSiR:  A Tool for Analyzing the Nature of the Siâ^'Si Bond. Journal of the American Chemical Society, 2006, 128, 14472-14473.	13.7	62
10	Polyanilineâ^'Dodecylbenzene Sulfonic Acid Polymerized from Aqueous Medium:Â A Solid State NMR Characterization. Macromolecules, 1999, 32, 5357-5364.	4.8	52
11	Binding Specificity of Amino Acids to Amorphous Silica Surfaces: Solid-State NMR of Glycine on SBA-15. Journal of Physical Chemistry C, 2012, 116, 9691-9702.	3.1	52
12	Molecular Level Characterization of the Inorganicâ ^{~,} Bioorganic Interface by Solid State NMR: Alanine on a Silica Surface, a Case Study. Journal of Physical Chemistry B, 2010, 114, 5989-5996.	2.6	48
13	Celecoxib Encapsulation in \hat{I}^2 -Casein Micelles: Structure, Interactions, and Conformation. Langmuir, 2015, 31, 7183-7192.	3.5	45
14	Measuring the Temperature Width of a First-Order Single Crystal to Single Crystal Phase Transition Using Solid-State NMR:Â Application to the Polymorphism of 2-(2,4-Dinitrobenzyl)-3-methylpyridine. Journal of the American Chemical Society, 1999, 121, 11291-11299.	13.7	44
15	Biomacromolecules within bivalve shells: Is chitin abundant?. Acta Biomaterialia, 2018, 80, 176-187.	8.3	44
16	Local packing in glassy polycarbonate by carbon-deuterium REDOR NMR. Macromolecules, 1993, 26, 1729-1733.	4.8	43
17	Inhibition Mode of a Bisubstrate Inhibitor of KDO8P Synthase:  A Frequency-Selective REDOR Solid-State and Solution NMR Characterization. Journal of the American Chemical Society, 2003, 125, 4662-4669.	13.7	33
18	Exposed and Buried Biomineral Interfaces in the Aragonitic Shell of <i>Perna canaliculus</i> Revealed by Solid-State NMR. Chemistry of Materials, 2013, 25, 4595-4602.	6.7	31

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19	Novel semi-IPN through vinyl silane polymerization and crosslinking within PVC films. Journal of Polymer Science Part A, 2001, 39, 8-22.	2.3	28
20	<i>In Situ</i> Observation of the Internal Structure and Composition of Biomineralized <i>Emiliania huxleyi</i> Calcite by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 13425-13432.	13.7	28
21	Structural and Mechanistic Investigation of 3-Deoxy-d-manno-octulosonate-8-phosphate Synthase by Solid-State REDOR NMR. Biochemistry, 2000, 39, 14865-14876.	2.5	24
22	Molecular Details of Amorphous Silica Surfaces Determine Binding Specificity to Small Amino Acids. Journal of Physical Chemistry C, 2014, 118, 7901-7909.	3.1	22
23	The Transition Amplitudes of Centerband and Sidebands in NMR Spectra of Rotating Solids. Israel Journal of Chemistry, 1992, 32, 215-230.	2.3	21
24	Activator Carbamino Carbon to Inhibitor Phosphorus Internuclear Distances in Ribulose-1,5-bisphosphate Carboxylase/Oxygenase. A Solid-State NMR Study. Biochemistry, 1995, 34, 5597-5603.	2.5	20
25	Novel Aggregation Motif ofgem-Dilithiosilanes:Â Coaggregation of Two R2SiLi2Molecules with Two RLi Molecules. Organometallics, 2006, 25, 4719-4721.	2.3	20
26	Internuclear distance measurement between Deuterium (I = 1) and a nucleus in rotating solids. Journal of Magnetic Resonance, 1992, 96, 644-650.	0.5	19
27	Scaling-down the CSA recoupling in S-CODEX 1D-MAS exchange experiments. Chemical Physics Letters, 2003, 380, 583-588.	2.6	19
28	A13C solid-state NMR study of the structure and the dynamics of the polymorphs of sulphanilamide. Molecular Physics, 1990, 70, 563-579.	1.7	17
29	The shell matrix and microstructure of the Ram's Horn squid: Molecular and structural characterization. Journal of Structural Biology, 2020, 211, 107507.	2.8	17
30	Direct Identification of Enzyme Active Site Residues by Solid-State REDOR NMR:  Application to KDO8P Synthase. Journal of the American Chemical Society, 2000, 122, 2649-2650.	13.7	15
31	[{(tBu2Me)2Si}3Li4]2â^': An Aggregated Dianion of a 1,1-Dilithiosilane with a Unique Structural Motif. Angewandte Chemie - International Edition, 2006, 45, 4157-4159.	13.8	15
32	CONTRA: Improving the performance of dynamic investigations in natural abundance organic solids by mirror-symmetric constant-time CODEX. Journal of Magnetic Resonance, 2008, 191, 141-147.	2.1	13
33	Deuterium MAS NMR and Local Molecular Dynamic Model to Study Adsorption–Desorption Kinetics of a Dipeptide at the Inner Surfaces of SBA-15. Journal of Physical Chemistry C, 2016, 120, 2797-2806.	3.1	13
34	Molecularâ€Level StructureProperty Relationships in Biogenic Calcium Carbonates: The Unique Insights of Solidâ€ S tate NMR Spectroscopy. Israel Journal of Chemistry, 2014, 54, 74-85.	2.3	12
35	Playing Hardball with Hydrogen: Metastable Mechanochemical Hydrogenation of Magnesium Nitride. Journal of Physical Chemistry C, 2013, 117, 1237-1246.	3.1	11
36	Dynamic off-magic-angle sample spinning NMR spectroscopy. Chemical Physics Letters, 1989, 157, 539-542.	2.6	10

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37	Resilient Intracrystalline Occlusions: A Solid-State NMR View of Local Structure as It Tunes Bulk Lattice Properties. Journal of the American Chemical Society, 2020, 142, 13743-13755.	13.7	10
38	A Nature's Curiosity: The Argonaut "Shell―and Its Organic Content. Crystals, 2020, 10, 839.	2.2	9
39	Identifying critical unrecognized sugar–protein interactions in <scp>GH</scp> 10 xylanases from <i><scp>G</scp>eobacillusÂstearothermophilus</i> using <scp>STD NMR</scp> . FEBS Journal, 2013, 280, 4652-4665.	4.7	8
40	Thermal conductivity-structure-processing relationships for amorphous nano-porous organo-silicate thin films. Journal of Porous Materials, 2020, 27, 565-586.	2.6	6
41	Binding of the natural substrates and products to KDO8P synthase: 31P and 13C solution NMR characterization. Bioorganic Chemistry, 2003, 31, 306-321.	4.1	5
42	NMR investigations of reactively extruded PVC/PMMA and PVC/PS blends. Polymers for Advanced Technologies, 2007, 18, 756-765.	3.2	5
43	Transformation of Organosilicon-Loaded Alumina Gel to Homogeneous Alumino- silicates:  A Solid-State NMR Study. Chemistry of Materials, 2001, 13, 247-249.	6.7	4
44	Spin-echo, double-resonance NMR with flipped spinning (SEDORFS). Journal of Magnetic Resonance, 1991, 94, 362-369.	0.5	3
45	Superlattice ordering transitions driven by short-range structure in barium calcium carbonates. Faraday Discussions, 2022, 235, 416-432.	3.2	1