

Asher Schmidt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/701785/publications.pdf>

Version: 2024-02-01

45
papers

1,535
citations

331259

21
h-index

301761

39
g-index

47
all docs

47
docs citations

47
times ranked

1773
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Superlattice ordering transitions driven by short-range structure in barium calcium carbonates. <i>Faraday Discussions</i> , 2022, 235, 416-432. | 1.6 | 1 |
| 2 | Thermal conductivity-structure-processing relationships for amorphous nano-porous organo-silicate thin films. <i>Journal of Porous Materials</i> , 2020, 27, 565-586. | 1.3 | 6 |
| 3 | A Nature's Curiosity: The Argonaut "Shell" and Its Organic Content. <i>Crystals</i> , 2020, 10, 839. | 1.0 | 9 |
| 4 | Resilient Intracrystalline Occlusions: A Solid-State NMR View of Local Structure as It Tunes Bulk Lattice Properties. <i>Journal of the American Chemical Society</i> , 2020, 142, 13743-13755. | 6.6 | 10 |
| 5 | The shell matrix and microstructure of the Ram's Horn squid: Molecular and structural characterization. <i>Journal of Structural Biology</i> , 2020, 211, 107507. | 1.3 | 17 |
| 6 | Biomacromolecules within bivalve shells: Is chitin abundant?. <i>Acta Biomaterialia</i> , 2018, 80, 176-187. | 4.1 | 44 |
| 7 | Deuterium MAS NMR and Local Molecular Dynamic Model to Study Adsorption-Desorption Kinetics of a Dipeptide at the Inner Surfaces of SBA-15. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2797-2806. | 1.5 | 13 |
| 8 | Phosphate-Water Interplay Tunes Amorphous Calcium Carbonate Metastability: Spontaneous Phase Separation and Crystallization vs Stabilization Viewed by Solid State NMR. <i>Journal of the American Chemical Society</i> , 2015, 137, 990-998. | 6.6 | 76 |
| 9 | Celecoxib Encapsulation in \hat{I}^2 -Casein Micelles: Structure, Interactions, and Conformation. <i>Langmuir</i> , 2015, 31, 7183-7192. | 1.6 | 45 |
| 10 | Molecular-Level Structure-Property Relationships in Biogenic Calcium Carbonates: The Unique Insights of Solid-State NMR Spectroscopy. <i>Israel Journal of Chemistry</i> , 2014, 54, 74-85. | 1.0 | 12 |
| 11 | Molecular Details of Amorphous Silica Surfaces Determine Binding Specificity to Small Amino Acids. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7901-7909. | 1.5 | 22 |
| 12 | Identifying critical unrecognized sugar-protein interactions in GH10 xylanases from <i>Gloeobacillus stearothermophilus</i> using STD NMR. <i>FEBS Journal</i> , 2013, 280, 4652-4665. | 2.2 | 8 |
| 13 | Playing Hardball with Hydrogen: Metastable Mechanochemical Hydrogenation of Magnesium Nitride. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1237-1246. | 1.5 | 11 |
| 14 | Exposed and Buried Biomineral Interfaces in the Aragonitic Shell of <i>Perna canaliculus</i> Revealed by Solid-State NMR. <i>Chemistry of Materials</i> , 2013, 25, 4595-4602. | 3.2 | 31 |
| 15 | Binding Specificity of Amino Acids to Amorphous Silica Surfaces: Solid-State NMR of Glycine on SBA-15. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9691-9702. | 1.5 | 52 |
| 16 | Molecular control of quantum-dot internal electric field and its application to CdSe-based solar cells. <i>Nature Materials</i> , 2011, 10, 974-979. | 13.3 | 84 |
| 17 | In situ molecular NMR picture of bioavailable calcium stabilized as amorphous CaCO_3 biomineral in crayfish gastroliths. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14763-14768. | 3.3 | 82 |
| 18 | Molecular Level Characterization of the Inorganic-Bioorganic Interface by Solid State NMR: Alanine on a Silica Surface, a Case Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5989-5996. | 1.2 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | CONTRA: Improving the performance of dynamic investigations in natural abundance organic solids by mirror-symmetric constant-time CODEX. <i>Journal of Magnetic Resonance</i> , 2008, 191, 141-147. | 1.2 | 13 |
| 20 | <i>In Situ</i> Observation of the Internal Structure and Composition of Biomineralized <i>Emiliana huxleyi</i> Calcite by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 13425-13432. | 6.6 | 28 |
| 21 | NMR investigations of reactively extruded PVC/PMMA and PVC/PS blends. <i>Polymers for Advanced Technologies</i> , 2007, 18, 756-765. | 1.6 | 5 |
| 22 | Novel Aggregation Motif of gem-Dilithiosilanes: A Coaggregation of Two R ₂ SiLi ₂ Molecules with Two RLi Molecules. <i>Organometallics</i> , 2006, 25, 4719-4721. | 1.1 | 20 |
| 23 | Solid-State ²⁹ Si NMR Study of RSiSiR: A Tool for Analyzing the Nature of the Si ⁺ Si Bond. <i>Journal of the American Chemical Society</i> , 2006, 128, 14472-14473. | 6.6 | 62 |
| 24 | [(tBu ₂ Me) ₂ Si] ₃ Li ₄] ²⁻ : An Aggregated Dianion of a 1,1-Dilithiosilane with a Unique Structural Motif. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4157-4159. | 7.2 | 15 |
| 25 | Scaling-down the CSA recoupling in S-CODEX 1D-MAS exchange experiments. <i>Chemical Physics Letters</i> , 2003, 380, 583-588. | 1.2 | 19 |
| 26 | Binding of the natural substrates and products to KDO8P synthase: ³¹ P and ¹³ C solution NMR characterization. <i>Bioorganic Chemistry</i> , 2003, 31, 306-321. | 2.0 | 5 |
| 27 | Inhibition Mode of a Bisubstrate Inhibitor of KDO8P Synthase: A Frequency-Selective REDOR Solid-State and Solution NMR Characterization. <i>Journal of the American Chemical Society</i> , 2003, 125, 4662-4669. | 6.6 | 33 |
| 28 | Transformation of Organosilicon-Loaded Alumina Gel to Homogeneous Alumino-silicates: A Solid-State NMR Study. <i>Chemistry of Materials</i> , 2001, 13, 247-249. | 3.2 | 4 |
| 29 | Novel semi-IPN through vinyl silane polymerization and crosslinking within PVC films. <i>Journal of Polymer Science Part A</i> , 2001, 39, 8-22. | 2.5 | 28 |
| 30 | Direct Identification of Enzyme Active Site Residues by Solid-State REDOR NMR: Application to KDO8P Synthase. <i>Journal of the American Chemical Society</i> , 2000, 122, 2649-2650. | 6.6 | 15 |
| 31 | Structural and Mechanistic Investigation of 3-Deoxy-d-manno-octulosonate-8-phosphate Synthase by Solid-State REDOR NMR. <i>Biochemistry</i> , 2000, 39, 14865-14876. | 1.2 | 24 |
| 32 | Polyaniline ⁺ Dodecylbenzene Sulfonic Acid Polymerized from Aqueous Medium: A Solid State NMR Characterization. <i>Macromolecules</i> , 1999, 32, 5357-5364. | 2.2 | 52 |
| 33 | Measuring the Temperature Width of a First-Order Single Crystal to Single Crystal Phase Transition Using Solid-State NMR: Application to the Polymorphism of 2-(2,4-Dinitrobenzyl)-3-methylpyridine. <i>Journal of the American Chemical Society</i> , 1999, 121, 11291-11299. | 6.6 | 44 |
| 34 | Compatibilization of Polymer Blends by Complexation. 1. Spectroscopic Characterization of Ion ⁺ Amide Interactions in Ionomer/Polyamide Blends. <i>Macromolecules</i> , 1996, 29, 3909-3917. | 2.2 | 81 |
| 35 | Structural Constraints on the Ternary Complex of 5-Enolpyruvylshikimate-3-phosphate Synthase from Rotational-echo Double-resonance NMR. <i>Journal of Molecular Biology</i> , 1996, 256, 160-171. | 2.0 | 84 |
| 36 | Activator Carbamino Carbon to Inhibitor Phosphorus Internuclear Distances in Ribulose-1,5-bisphosphate Carboxylase/Oxygenase. A Solid-State NMR Study. <i>Biochemistry</i> , 1995, 34, 5597-5603. | 1.2 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Local packing in glassy polycarbonate by carbon-deuterium REDOR NMR. <i>Macromolecules</i> , 1993, 26, 1729-1733. | 2.2 | 43 |
| 38 | The Floquet theory of nuclear magnetic resonance spectroscopy of single spins and dipolar coupled spin pairs in rotating solids. <i>Journal of Chemical Physics</i> , 1992, 96, 2655-2680. | 1.2 | 130 |
| 39 | The Transition Amplitudes of Centerband and Sidebands in NMR Spectra of Rotating Solids. <i>Israel Journal of Chemistry</i> , 1992, 32, 215-230. | 1.0 | 21 |
| 40 | Internuclear distance measurement between Deuterium ($I = 1$) and a nucleus in rotating solids. <i>Journal of Magnetic Resonance</i> , 1992, 96, 644-650. | 0.5 | 19 |
| 41 | Spin-echo, double-resonance NMR with flipped spinning (SEDORFS). <i>Journal of Magnetic Resonance</i> , 1991, 94, 362-369. | 0.5 | 3 |
| 42 | A13C solid-state NMR study of the structure and the dynamics of the polymorphs of sulphanilamide. <i>Molecular Physics</i> , 1990, 70, 563-579. | 0.8 | 17 |
| 43 | Dynamic off-magic-angle sample spinning NMR spectroscopy. <i>Chemical Physics Letters</i> , 1989, 157, 539-542. | 1.2 | 10 |
| 44 | NMR line shape analysis for two-site exchange in rotating solids. <i>Journal of Chemical Physics</i> , 1987, 87, 6895-6907. | 1.2 | 103 |
| 45 | Chemical exchange effects in the NMR spectra of rotating solids. <i>Journal of Chemical Physics</i> , 1986, 85, 4248-4253. | 1.2 | 66 |