# Raiker Witter

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5786603/publications.pdf

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|---|---|---|---|
| 47 papers | 1,610 citations | 331670 21 h-index | 289244 40 g-index |
| 48 all docs | 48 docs citations | 48 times ranked | 1805 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Disordered Lithiumâ€Rich Oxyfluoride as a Stable Host for Enhanced Li<sup>+</sup> Intercalation Storage. Advanced Energy Materials, 2015, 5, 1401814. | 19.5 | 162 |
| 2 | Nanostructured Fluorite-Type Fluorides As Electrolytes for Fluoride Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 4943-4950. | 3.1 | 145 |
| 3 | Solid Electrolytes for Fluoride Ion Batteries: Ionic Conductivity in Polycrystalline Tysonite-Type Fluorides. ACS Applied Materials & Interfaces, 2014, 6, 2103-2110. | 8.0 | 131 |
| 4 | 1H line width dependence on MAS speed in solid state NMR â€“ Comparison of experiment and simulation. Journal of Magnetic Resonance, 2018, 291, 32-39. | 2.1 | 80 |
| 5 | Room-Temperature, Rechargeable Solid-State Fluoride-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 4766-4775. | 5.1 | 80 |
| 6 | Measurements of chain length distributions in calcium phosphate glasses using 2D double quantum NMR. Solid State Nuclear Magnetic Resonance, 1998, 13, 189-200. | 2.3 | 75 |
| 7 | 13C Chemical Shift Constrained Crystal Structure Refinement of Cellulose Iα and Its Verification by NMR Anisotropy Experiments. Macromolecules, 2006, 39, 6125-6132. | 4.8 | 74 |
| 8 | Li<sup>+</sup> intercalation in isostructural Li<sub>2</sub>VO<sub>3</sub> and Li<sub>2</sub>VO<sub>2</sub>F with O<sup>2â˜</sup>/F<sup>â˜</sup> anions. Physical Chemistry Chemical Physics, 2015, 17, 17288-17295. | 2.8 | 67 |
| 9 | Solid state 19F NMR parameters of fluorine-labeled amino acids. Part I: Aromatic substituents. Journal of Magnetic Resonance, 2008, 191, 7-15. | 2.1 | 57 |
| 10 | Altered reaction pathways of eutectic LiBH4â€“Mg(BH4)2 by nanoconfinement. Journal of Materials Chemistry A, 2013, 1, 3379. | 10.3 | 52 |
| 11 | Solid-State <sup>19</sup>F NMR Spectroscopy Reveals That Trp<sub>41</sub> Participates in the Gating Mechanism of the M2 Proton Channel of Influenza A Virus. Journal of the American Chemical Society, 2008, 130, 918-924. | 13.7 | 47 |
| 12 | New 2D NMR experiments for determining the structure of phosphate glasses: a review. Journal of Non-Crystalline Solids, 2000, 263-264, 61-72. | 3.1 | 42 |
| 13 | Crystal Structure Refinements of Cellulose Polymorphs using Solid State 13C Chemical Shifts. Cellulose, 2003, 10, 189-199. | 4.9 | 39 |
| 14 | Low-E probe for 19Fâ€“1H NMR of dilute biological solids. Journal of Magnetic Resonance, 2007, 189, 182-189. | 2.1 | 39 |
| 15 | Catalytic Influence of Various Cerium Precursors on the Hydrogen Sorption Properties of NaAlH<sub>4</sub>. Advanced Energy Materials, 2012, 2, 560-568. | 19.5 | 38 |
| 16 | Introducing Interlayer Electrolytes: Toward Room-Temperature High-Potential Solid-State Rechargeable Fluoride Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1553-1562. | 5.1 | 38 |
| 17 | Synthesis of Fast Fluoride-Ion-Conductive Fluorite-Type Ba<sub>1â€“x</sub>Sb<sub>x</sub>F<sub>2+x</sub> (0.1 â‰¤ x â‰¤ 0.4): A Potential Solid Electrolyte for Fluoride-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 17249-17256. | 8.0 | 37 |
| 18 | Calculation of fluorine chemical shift tensors for the interpretation of oriented 19F-NMR spectra of gramicidin A in membranes. Physical Chemistry Chemical Physics, 2009, 11, 7048. | 2.8 | 30 |

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|---|---|---|---|
| 19 | All-atom molecular dynamics simulations using orientational constraints from anisotropic NMR samples. Journal of Biomolecular NMR, 2007, 38, 23-39. | 2.8 | 27 |
| 20 | Chemical shift driven geometry optimization. Journal of Computational Chemistry, 2002, 23, 298-305. | 3.3 | 26 |
| 21 | Powder pattern recoupling at 10kHz spinning speed applied to cellulose. Journal of Magnetic Resonance, 2003, 161, 35-42. | 2.1 | 23 |
| 22 | NMR Chemical Shift Powder Pattern Recoupling at High Spinning Speed and Theoretical Tensor Evaluation Applied to Silk Fibroin. Journal of the American Chemical Society, 2006, 128, 2236-2243. | 13.7 | 22 |
| 23 | <sup>29</sup>Si NMR Shielding Tensors in Triphenylsilanes â€“ <sup>29</sup>Si Solid State NMR Experiments and DFTâ€GLO Calculations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 935-944. | 1.2 | 22 |
| 24 | Testing Mg as an anode against BiF3 and SnF2 cathodes for room temperature rechargeable fluoride ion batteries. Materials Letters, 2019, 244, 159-162. | 2.6 | 22 |
| 25 | Multilayered coreâ€“shell structure of polyol-stabilized calcium fluoride nanoparticles characterized by NMR. Journal of Colloid and Interface Science, 2013, 390, 250-257. | 9.4 | 20 |
| 26 | Calculation of solid-state13C NMR spectra of cellulose IÂÎ±, IÂÎ² and II using a semi-empirical approach and molecular dynamics. Macromolecular Chemistry and Physics, 2000, 201, 1930-1939. | 2.2 | 19 |
| 27 | Lithiation-driven structural transition of VO2F into disordered rock-salt LixVO2F. RSC Advances, 2016, 6, 65112-65118. | 3.6 | 19 |
| 28 | Beneficial effects of stoichiometry and nanostructure for a LiBH<sub>4</sub>â€“MgH<sub>2</sub>hydrogen storage system. Journal of Materials Chemistry A, 2014, 2, 66-72. | 10.3 | 18 |
| 29 | Structure determination of a pseudotripeptide zinc complex with the COSMOS-NMR force field and DFT methods. Journal of Biomolecular NMR, 2002, 24, 277-289. | 2.8 | 17 |
| 30 | 3D Structure Elucidation Using NMR Chemical Shifts. Annual Reports on NMR Spectroscopy, 2004, , 53-104. | 1.5 | 17 |
| 31 | Crystal phase and surface defect driven synthesis of Pb1â^'xSnxF2 solid solution electrolyte for fluoride ion batteries. Journal of Electroanalytical Chemistry, 2019, 845, 154-159. | 3.8 | 17 |
| 32 | Spectral assignments and anisotropy data of cellulose I<sub>Î±</sub>: <sup>13</sup>Câ€NMR chemical shift data of cellulose I<sub>Î±</sub> determined by INADEQUATE and RAI techniques applied to uniformly <sup>13</sup>Câ€labeled bacterial celluloses of different Gluconacetobacter xylinus strains. Magnetic Resonance in Chemistry, 2008, 46, 1030-1036. | 1.9 | 16 |
| 33 | Mechanochemical synthesis of solid-state electrolyte Sm1â^'xCaxF3â^'x for batteries and other electrochemical devices. Materials Letters, 2019, 244, 22-26. | 2.6 | 13 |
| 34 | Surface defectâ€enhanced conductivity of calcium fluoride for electrochemical applications. Material Design and Processing Communications, 2019, 1, e44. | 0.9 | 13 |
| 35 | Influence of Nanoconfinement on Reaction Pathways of Complex Metal Hydrides. Energy Procedia, 2012, 29, 731-737. | 1.8 | 11 |
| 36 | Structure and electrochemical properties of Na<sub>2Â±x</sub>V<sub>3</sub>P<sub>2</sub>O<sub>13</sub> (x = 0 and 1): a promising cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 6947-6958. | 10.3 | 9 |

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|---|---|---|---|
| 37 | Medical Plants and Nutraceuticals for Amyloid-Î² Fibrillation Inhibition. Journal of Alzheimer's Disease Reports, 2018, 2, 239-252. | 2.2 | 9 |
| 38 | Molecular dynamics simulations on PGLa using NMR orientational constraints. Journal of Biomolecular NMR, 2015, 63, 265-274. | 2.8 | 8 |
| 39 | Fast Atomic Charge Calculation for Implementation into a Polarizable Force Field and Application to an Ion Channel Protein. Journal of Chemistry, 2015, 2015, 1-14. | 1.9 | 6 |
| 40 | Complexation of metal ions by pseudotripeptides with different functionalized N-alkyl residues. International Journal of Peptide Research and Therapeutics, 2000, 7, 133-141. | 0.1 | 5 |
| 41 | CaF 2 solidâ€state electrolytes prepared by vapor pressure exposure and solid synthesis for defect and ionic conductivity tuning. Material Design and Processing Communications, 2020, 2, e76. | 0.9 | 5 |
| 42 | Screening of Nutraceuticals and Plant Extracts for Inhibition of Amyloid-Î² Fibrillation. Journal of Alzheimer's Disease, 2020, 73, 1003-1012. | 2.6 | 5 |
| 43 | Investigation of backbone dynamics and local geometry of bio-molecules using calculated NMR chemical shifts and anisotropies. Journal of Biomolecular NMR, 2019, 73, 727-741. | 2.8 | 4 |
| 44 | Synthesis and characterization of Ca <sub> (1â^' x ) </sub> Sm <sub> x </sub> F <sub> (2+) Tj ETQq0 0 0 rgBT /Overlock Processing Communications, 2021, 3, e226. | 0.9 | 3 |
| 45 | Complexation of metal ions by pseudotripeptides with different functionalized N-alkyl residues. International Journal of Peptide Research and Therapeutics, 2000, 7, 133-141. | 0.1 | 1 |
| 46 | 3D Structure Elucidation Using NMR Chemical Shifts. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 47 | Compoundâ€™s Pre-Screening of <i>Withania somnifera</i>, <i>Bacopa monnieri</i> and <i>Centella asiatica</i> Extracts. Journal of Biosciences and Medicines, 2020, 08, 80-98. | 0.2 | 0 |