Raiker Witter

List of Publications by Year
in descending order

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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	Synthesis and characterization of Ca _(1â^' x) Sm _x F <sub> (2+) Tj ETQq1 1 0.784314 rgBT /C Processing Communications, 2021, 3, e226.	0.9	3
2	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
3	Screening of Nutraceuticals and Plant Extracts for Inhibition of Amyloid-Î² Fibrillation. Journal of Alzheimer's Disease, 2020, 73, 1003-1012.	2.6	5
4	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
5	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
6	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
7	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
8	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
9	Mechanochemical synthesis of solid-state electrolyte Sm1â^'xCaxF3â^'x for batteries and other electrochemical devices. Materials Letters, 2019, 244, 22-26.	2.6	13
10	Surface defectâ€enhanced conductivity of calcium fluoride for electrochemical applications. Material Design and Processing Communications, 2019, 1, e44.	0.9	13
11	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
12	Structure and electrochemical properties of Na_{2Â±x}V₃P₂O₁₃ (x = 0 and 1): a promising cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 6947-6958.	10.3	9
13	Medical Plants and Nutraceuticals for Amyloid-Î² Fibrillation Inhibition. Journal of Alzheimer's Disease Reports, 2018, 2, 239-252.	2.2	9
14	Synthesis of Fast Fluoride-Ion-Conductive Fluorite-Type Ba_{1â€“x}Sb_xF_{2+x} (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
15	Room-Temperature, Rechargeable Solid-State Fluoride-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 4766-4775.	5.1	80
16	Lithiation-driven structural transition of VO2F into disordered rock-salt LixVO2F. RSC Advances, 2016, 6, 65112-65118.	3.6	19
17	Molecular dynamics simulations on PGLa using NMR orientational constraints. Journal of Biomolecular NMR, 2015, 63, 265-274.	2.8	8
18	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

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19	Li⁺ intercalation in isostructural Li₂VO₃ and Li₂VO₂F with O^{2â”} and mixed O^{2â”}/F^{â”} anions. Physical Chemistry Chemical Physics, 2015, 17, 17288-17295.	2.8	67
20	Disordered Lithiumâ€Rich Oxyfluoride as a Stable Host for Enhanced Li⁺ Intercalation Storage. Advanced Energy Materials, 2015, 5, 1401814.	19.5	162
21	Beneficial effects of stoichiometry and nanostructure for a LiBH₄â€“MgH₂hydrogen storage system. Journal of Materials Chemistry A, 2014, 2, 66-72.	10.3	18
22	Solid Electrolytes for Fluoride Ion Batteries: Ionic Conductivity in Polycrystalline Tysonite-Type Fluorides. ACS Applied Materials & Interfaces, 2014, 6, 2103-2110.	8.0	131
23	Altered reaction pathways of eutectic LiBH4â€“Mg(BH4)2 by nanoconfinement. Journal of Materials Chemistry A, 2013, 1, 3379.	10.3	52
24	Nanostructured Fluorite-Type Fluorides As Electrolytes for Fluoride Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 4943-4950.	3.1	145
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	Influence of Nanoconfinement on Reaction Pathways of Complex Metal Hydrides. Energy Procedia, 2012, 29, 731-737.	1.8	11
27	²⁹Si NMR Shielding Tensors in Triphenylsilanes â€“ ²⁹Si Solid State NMR Experiments and DFTâ€GLO Calculations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 935-944.	1.2	22
28	Catalytic Influence of Various Cerium Precursors on the Hydrogen Sorption Properties of NaAlH₄. Advanced Energy Materials, 2012, 2, 560-568.	19.5	38
29	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
30	Spectral assignments and anisotropy data of cellulose I_{Î±}: ¹³Câ€NMR chemical shift data of cellulose I_{Î±} determined by INADEQUATE and RAI techniques applied to uniformly ¹³Câ€labeled bacterial celluloses of different Gluconacetobacter xylinus strains. Magnetic Resonance in Chemistry, 2008, 46, 1030-1036.	1.9	16
31	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
32	Solid-State ¹⁹F NMR Spectroscopy Reveals That Trp₄₁ 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
33	Low-E probe for 19Fâ€“1H NMR of dilute biological solids. Journal of Magnetic Resonance, 2007, 189, 182-189.	2.1	39
34	All-atom molecular dynamics simulations using orientational constraints from anisotropic NMR samples. Journal of Biomolecular NMR, 2007, 38, 23-39.	2.8	27
35	13C Chemical Shift Constrained Crystal Structure Refinement of Cellulose Iβ and Its Verification by NMR Anisotropy Experiments. Macromolecules, 2006, 39, 6125-6132.	4.8	74
36	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

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37	3D Structure Elucidation Using NMR Chemical Shifts. ChemInform, 2005, 36, no.	0.0	0
38	3D Structure Elucidation Using NMR Chemical Shifts. Annual Reports on NMR Spectroscopy, 2004, , 53-104.	1.5	17
39	Crystal Structure Refinements of Cellulose Polymorphs using Solid State 13C Chemical Shifts. Cellulose, 2003, 10, 189-199.	4.9	39
40	Powder pattern recoupling at 10kHz spinning speed applied to cellulose. Journal of Magnetic Resonance, 2003, 161, 35-42.	2.1	23
41	Chemical shift driven geometry optimization. Journal of Computational Chemistry, 2002, 23, 298-305.	3.3	26
42	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
43	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
44	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
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	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
47	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