

Sax A Mason

List of Publications by Year in descending order

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35
papers

1,577
citations

279798

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docs citations

37
times ranked

1893
citing authors

#	ARTICLE	IF	CITATIONS
1	Topography of cyclodextrin inclusion complexes. Part 23. Neutron diffraction study of the hydrogen bonding in .beta.-cyclodextrin undecahydrate at 120 K: from dynamic flip-flops to static homodromic chains. <i>Journal of the American Chemical Society</i> , 1986, 108, 3664-3673.	13.7	222
2	Metal Ion Roles and the Movement of Hydrogen during Reaction Catalyzed by D-Xylose Isomerase: A Joint X-Ray and Neutron Diffraction Study. <i>Structure</i> , 2010, 18, 688-699.	3.3	139
3	Valence-Shell Charge Concentrations and Electron Delocalization in Alkyl lithium Complexes: Negative Hyperconjugation and Agostic Bonding. <i>Chemistry - A European Journal</i> , 2002, 8, 2324-2334.	3.3	97
4	Nonclassical vs Classical Metal-H3C-C Interactions: Accurate Characterization of a 14-Electron Ruthenium(II) System by Neutron Diffraction, Database Analysis, Solution Dynamics, and DFT Studies. <i>Journal of the American Chemical Society</i> , 2004, 126, 5549-5562.	13.7	97
5	Dispersion-Driven Hydrogen Bonding: Predicted Hydrogen Bond between Water and Platinum(II) Identified by Neutron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7440-7443.	13.8	93
6	Variable Temperature Neutron Diffraction Analysis of a Very Short O-H...O Hydrogen Bond in 2,3,5,6-Pyrazinetetracarboxylic Acid Dihydrate: A Synthon-Assisted Short O-H...O Water Hydrogen Bonds in a Multicenter Array. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9406-9416.	2.5	77
7	Molecular heterometallic hydride clusters composed of rare-earth and d-transition metals. <i>Nature Chemistry</i> , 2011, 3, 814-820.	13.6	66
8	Topography of cyclodextrin inclusion complexes. Part 25. Cooperative O-H...O hydrogen bonds in .beta.-cyclodextrin-ethanol-octahydrate at 15 K: a neutron diffraction study. <i>Journal of the American Chemical Society</i> , 1990, 112, 6184-6190.	13.7	57
9	Agostic deformations based on electron delocalization in the alkyl lithium-complex [2-(Me3Si)2ClLiC5H4N]2 Electronic supplementary information (ESI) available: experimental and theoretical details of multipole refinements and model systems. See http://www.rsc.org/suppdata/cc/b1/b105452j/ . <i>Chemical Communications</i> , 2001, , 2072-2073.	4.1	52
10	Direct location of the interstitial hydride ligand in [HRu6(CO)18] by both X-ray and neutron analyses of [Ph4As][HRu6(CO)18]. <i>Journal of the Chemical Society Chemical Communications</i> , 1980, , 295.	2.0	51
11	Topography of cyclodextrin inclusion complexes. 28. Neutron diffraction study of the hydrogen bonding in partially deuterated .gamma.-cyclodextrin.15.7D2O at T = 110 K. <i>Journal of the American Chemical Society</i> , 1991, 113, 8081-8089.	13.7	51
12	Neutron Diffraction Studies on a 4-Coordinate Hydrogen Atom in an Yttrium Cluster. <i>Journal of the American Chemical Society</i> , 2008, 130, 3888-3891.	13.7	47
13	The Structure of Water in Sulfonatocalix[4]arene. <i>Chemistry - A European Journal</i> , 2011, 17, 10259-10271.	3.3	46
14	On the Reliability of C-H...O Interactions in Crystal Engineering: Synthesis and Structure of Two Hydrogen Bonded Phosphonium Bis(aryloxide) Salts. <i>Crystal Growth and Design</i> , 2002, 2, 163-169.	3.0	37
15	Nature of Si-H Interactions in a Series of Ruthenium Silazane Complexes Using Multinuclear Solid-State NMR and Neutron Diffraction. <i>Inorganic Chemistry</i> , 2014, 53, 1156-1165.	4.0	35
16	Short N-H...Ph hydrogen bonds in ammonium tetraphenylborate characterized by neutron diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 254-260.	1.8	32
17	Synthesis, X-ray and Neutron Diffraction Characterization, and Ionic Conduction Properties of a New Oxothiomolybdate Li3[Mo8S8O8(OH)8{HWO5(H2O)}]·18 H2O. <i>Chemistry - A European Journal</i> , 2002, 8, 349-356.	3.3	31
18	High-resolution neutron crystallographic studies of the hydration of the coenzyme cob(II)alamin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 584-591.	2.5	30

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19	η^5 -Agostic Interactions in Cp*W(NO)(CH ₂ CMe ₃) ₂ and Related Nitrosyl Complexes. <i>Organometallics</i> , 2001, 20, 4492-4501.	2.3	29
20	Probing Highly Selective H/D Exchange Processes with a Ruthenium Complex through Neutron Diffraction and Multinuclear NMR Studies. <i>Inorganic Chemistry</i> , 2013, 52, 7329-7337.	4.0	28
21	Binding site asymmetry in human transthyretin: insights from a joint neutron and X-ray crystallographic analysis using perdeuterated protein. <i>IUCr</i> , 2014, 1, 429-438.	2.2	28
22	Anisotropic thermal expansion in 18-crown-6·2 H ₂ O·2 HNO ₃ . <i>New Journal of Chemistry</i> , 2003, 27, 28-31.	2.8	27
23	A Neutron Diffraction Study of [OsClH ₃ (PPh ₃) ₃]: A Complex Containing a Highly π -Stretched Dihydrogen Ligand. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7227-7230.	13.8	25
24	Step-by-Step Introduction of Silazane Moieties at Ruthenium: Different Extents of Ru-H-Si Bond Activation. <i>Inorganic Chemistry</i> , 2013, 52, 2654-2661.	4.0	23
25	The shortest C-H...O hydrogen bonds yet determined by single crystal neutron diffraction: a structural study of two phosphonium aryloxides. <i>New Journal of Chemistry</i> , 2000, 24, 477-479.	2.8	22
26	L-Arabinose Binding, Isomerization, and Epimerization by D-Xylose Isomerase: X-Ray/Neutron Crystallographic and Molecular Simulation Study. <i>Structure</i> , 2014, 22, 1287-1300.	3.3	22
27	Inhibition of D-xylose isomerase by polyols: atomic details by joint X-ray/neutron crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1201-1206.	2.5	18
28	Dominance of Charge-Assisted Hydrogen Bonding on Short Contacts and Structures that Crystallize with $Z \geq 1$. <i>Crystal Growth and Design</i> , 2011, 11, 4904-4919.	3.0	16
29	Neutron diffraction study of the highly distorted octahedral complex FeH ₂ (CO) ₂ [P(OPh) ₃] ₂ . <i>Journal of Organometallic Chemistry</i> , 2003, 676, 85-88.	1.8	15
30	Macromolecular structure phasing by neutron anomalous diffraction. <i>Scientific Reports</i> , 2016, 6, 31487.	3.3	14
31	A highly hydrated η^5 -cyclodextrin/1-undecanol inclusion complex: crystal structure and hydrogen-bond network from high-resolution neutron diffraction at 20...K. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2013, 69, 214-227.	1.1	13
32	A fast new diffractometer for chemical crystallography, small proteins and fiber diffraction. <i>Neutron News</i> , 2001, 12, 20-25.	0.2	12
33	Neutron Diffraction Analysis of H ₂ O ₆ (CO) ₁₈ . <i>Journal of the American Chemical Society</i> , 1997, 119, 11992-11993.	13.7	11
34	(+)-syn-Benzotriborneol an enantiopure C ₃ -symmetric receptor for water. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2464.	2.8	9
35	Preliminary neutron crystallographic study of human transthyretin. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1428-1431.	0.7	4