

Hans-Heinrich Limbach

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#	Paper	IF	Citations
292	Ruthenium nanoparticles inside porous [Zn ₄ O(bdc) ₃] by hydrogenolysis of adsorbed [Ru(cod)(cot)]: a solid-state reference system for surfactant-stabilized ruthenium colloids. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6119-30	16.4	319
291	Surface characterization of flax, hemp and cellulose fibers; Surface properties and the water uptake behavior. <i>Polymer Composites</i> , 2002 , 23, 872-894	3	291
290	Hydrogen bonding of water confined in mesoporous silica MCM-41 and SBA-15 studied by ¹ H solid-state NMR. <i>Chemistry - A European Journal</i> , 2004 , 10, 5689-96	4.8	285
289	Pyridine-15N A Mobile NMR Sensor for Surface Acidity and Surface Defects of Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11924-11939	3.4	229
288	Hydrogen/Deuterium Isotope Effects on the NMR Chemical Shifts and Geometries of Intermolecular Low-Barrier Hydrogen-Bonded Complexes. <i>Journal of the American Chemical Society</i> , 1996 , 118, 4094-4101	16.4	213
287	Nuclear Scalar Spin-Spin Couplings and Geometries of Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1979-1988	16.4	174
286	NMR Study of the Tautomerism of Porphyrin Including the Kinetic H/H/HD/DD Isotope Effects in the Liquid and the Solid State. <i>Journal of the American Chemical Society</i> , 1994 , 116, 6593-6604	16.4	174
285	Nuclear Scalar Spin-Spin Coupling Reveals Novel Properties of Low-Barrier Hydrogen Bonds in a Polar Environment. <i>Chemistry - A European Journal</i> , 1999 , 5, 492-497	4.8	172
284	Nuclear magnetic resonance of hydrogen bonded clusters between F and (HF) _n : Experiment and theory. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1998 , 102, 422-428		164
283	Low-temperature NMR studies of the structure and dynamics of a novel series of acid-base complexes of HF with collidine exhibiting scalar couplings across hydrogen bonds. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11710-20	16.4	159
282	Solid State ¹⁵ N NMR and Theoretical Studies of Primary and Secondary Geometric H/D Isotope Effects on Low-Barrier N-H Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2939-2950	16.4	140
281	Structural and dynamical properties of guest molecules confined in mesoporous silica materials revealed by NMR. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 4843-53	3.6	130
280	Influence of the temperature-dependent dielectric constant on the H/D isotope effects on the NMR chemical shifts and the hydrogen bond geometry of the collidine-HF complex in CDF ₃ /CDF ₂ solution. <i>Magnetic Resonance in Chemistry</i> , 2001 , 39, S91-S99	2.1	129
279	¹ H/ ¹⁵ N NMR chemical shielding, dipolar ¹⁵ N, ² H coupling and hydrogen bond geometry correlations in a novel series of hydrogen-bonded acid-base complexes of collidine with carboxylic acids. <i>Magnetic Resonance in Chemistry</i> , 2001 , 39, S18-S29	2.1	128
278	Arrhenius curves of hydrogen transfers: tunnel effects, isotope effects and effects of pre-equilibria. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006 , 361, 1399-415	5.8	124
277	¹⁵ N-CPMAS-NMR Study of the Problem of N-H Tautomerism in Crystalline Porphine and Porphycene. <i>Angewandte Chemie International Edition in English</i> , 1987 , 26, 934-936		122
276	O-H Hydrogen Bond Geometries and NMR Chemical Shifts: From Equilibrium Structures to Geometric H/D Isotope Effects, with Applications for Water, Protonated Water, and Compressed Ice. <i>Israel Journal of Chemistry</i> , 2009 , 49, 199-216	3.4	118

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- 274 Reactions of olefins with ruthenium hydride nanoparticles: NMR characterization, hydride titration, and room-temperature C–C bond activation. *Angewandte Chemie - International Edition*, **2008**, 47, 2074-8 16.4 114
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- 262 Hydrogen/Deuterium-Isotope Effects on NMR Chemical Shifts and Symmetry of Homoconjugated Hydrogen-Bonded Ions in Polar Solution. *Journal of the American Chemical Society*, **2000**, 122, 12878-12879 16.4 90
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254	Empirical corrections for anharmonic zero-point vibrations of hydrogen and deuterium in geometric hydrogen bond correlations. <i>Journal of Molecular Structure</i> , 2004 , 706, 115-119	3.4	75
253	Stable Phosphazanium Ions in Synthesis—Easily Accessible, Extremely Reactive "Naked" Fluoride Salt. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 1372-1375		72
252	IR-spectroscopic study of isotope effects on the NH/ND-stretching bands of meso-tetraphenylporphine and vibrational hydrogen tunneling. <i>Journal of Chemical Physics</i> , 1983 , 78, 5432-5436	3.9	70
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