## Hans-Heinrich Limbach

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 292
 11,909
 57
 89

 papers
 citations
 h-index
 g-index

 300
 12,588
 6.7
 5.76

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
292	Solid State NMR for Nonexperts: An Overview of Simple but General Practical Methods. <i>Solids</i> , <b>2021</b> , 2, 139-154	Ο	4
291	Combined NMR and UV-Vis Spectroscopic Studies of Models for the Hydrogen Bond System in the Active Site of Photoactive Yellow Protein: H-Bond Cooperativity and Medium Effects. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5874-5884	3.4	1
290	Surface reactions of ammonia on ruthenium nanoparticles revealed by 15N and 13C solid-state NMR. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 4509-4520	5.5	O
289	Design and characterization of novel dirhodium coordination polymers Ithe impact of ligand size on selectivity in asymmetric cyclopropanation. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 3481-3492	5.5	1
288	Stationary states of systems with intermolecular interactions dominated by electrostatics: Structure of trimethylammonium and tetramethylammonium chlorides and bromides in the gas phase, monomers and dimers. <i>Chemical Physics Letters</i> , <b>2021</b> , 778, 138809	2.5	O
287	Dirhodium Coordination Polymers for Asymmetric Cyclopropanation of Diazooxindoles with Olefins: Synthesis and Spectroscopic Analysis. <i>ChemPlusChem</i> , <b>2020</b> , 85, 1737-1746	2.8	3
286	NMR-Detected Host <b>©</b> uest Proton Exchange as a Tool to Explore Surface/Volume Ratios and Fluid Filling of Internal and External Spaces of Porous Solids Containing Surface OH Groups. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22082-22095	3.8	5
285	An efficient Perkin synthesis of C-labelled cinnamic acids from acetic acid as the source of the rare isotope. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , <b>2019</b> , 62, 298-300	1.9	1
284	Substituent Influences on the NMR Signal Amplification of Ir Complexes with Heterocyclic Carbene Ligands. <i>Applied Magnetic Resonance</i> , <b>2019</b> , 50, 895-902	0.8	6
283	Synthesis of N-labelled 3,5-dimethylpyridine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , <b>2019</b> , 62, 914-919	1.9	1
282	The application of novel Ir-NHC polarization transfer complexes by SABRE. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 244201	3.9	3
281	Reactions of D2 with 1,4-Bis(diphenylphosphino) butane-Stabilized Metal Nanoparticles-A Combined Gas-phase NMR, GC-MS and Solid-state NMR Study. <i>ChemCatChem</i> , <b>2019</b> , 11, 1465-1471	5.2	9
280	Gas phase H NMR studies and kinetic modeling of dihydrogen isotope equilibration catalyzed by Ru-nanoparticles under normal conditions: dissociative vs. associative exchange. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 10697-10712	3.6	12
279	Mixtures of Alcohols and Water confined in Mesoporous Silica: A Combined Solid-State NMR and Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19540-19550	3.8	11
278	Surprising Differences of Alkane C-H Activation Catalyzed by Ruthenium Nanoparticles: Complex Surface-Substrate Recognition?. <i>ChemCatChem</i> , <b>2018</b> , 10, 4243-4247	5.2	12
277	Parahydrogen Allows Ultrasensitive Indirect NMR Detection of Catalytic Hydrogen Complexes. Journal of Physical Chemistry C, <b>2017</b> , 121, 9879-9888	3.8	33
276	Polar solvent fluctuations drive proton transfer in hydrogen bonded complexes of carboxylic acid with pyridines: NMR, IR and ab initio MD study. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1010-1028	3.6	20

275	NMR Study of Solvation Effect on the Geometry of Proton-Bound Homodimers of Increasing Size. Journal of Physical Chemistry A, <b>2017</b> , 121, 8697-8705	2.8	18
274	31P-Solid-State NMR Characterization and Catalytic Hydrogenation Tests of Novel heterogenized Iridium-Catalysts. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2017</b> , 231,	3.1	7
273	Imidazole-Doped Cellulose as Membrane for Fuel Cells: Structural and Dynamic Insights from Solid-State NMR. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 19574-19585	3.8	26
272	Synthesis and Solid-State NMR Characterization of a Robust, Pyridyl-Based Immobilized Wilkinson's Type Catalyst with High Catalytic Performance. <i>ChemCatChem</i> , <b>2016</b> , 8, 3409-3416	5.2	14
271	Proton Tautomerism in Systems of Increasing Complexity: Examples from Organic Molecules to Enzymes <b>2016</b> , 329-372		1
270	NMR studies of active-site properties of human carbonic anhydrase II by using (15) N-labeled 4-methylimidazole as a local probe and histidine hydrogen-bond correlations. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 2915-29	4.8	16
269	Proton transfer in a short hydrogen bond caused by solvation shell fluctuations: an ab initio MD and NMR/UV study of an (OHO)(-) bonded system. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 4634-44	3.6	22
268	Spin polarization transfer mechanisms of SABRE: A magnetic field dependent study. <i>Journal of Magnetic Resonance</i> , <b>2015</b> , 261, 73-82	3	52
267	Water and small organic molecules as probes for geometric confinement in well-ordered mesoporous carbon materials. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 9327-36	3.6	32
266	How short is the strongest hydrogen bond in the proton-bound homodimers of pyridine derivatives?. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 10804-12	2.8	19
265	From molecular complexes to complex metallic nanostructures2H solid-state NMR studies of ruthenium-containing hydrogenation catalysts. <i>ChemPhysChem</i> , <b>2013</b> , 14, 3026-33	3.2	32
264	NMR studies of protonation and hydrogen bond states of internal aldimines of pyridoxal 5'-phosphate acid-base in alanine racemase, aspartate aminotransferase, and poly-L-lysine. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18160-75	16.4	54
263	Melting of Naphthalene Confined in Mesoporous Silica MCM-41. <i>Applied Magnetic Resonance</i> , <b>2013</b> , 44, 189-201	0.8	15
262	NMR Studies of the Reaction Path of the o-H2/p-H2 Spin Conversion Catalyzed by Vaskall Complex in the Solid State. <i>Applied Magnetic Resonance</i> , <b>2013</b> , 44, 247-265	0.8	6
261	Biography of Prof. Dr. Hans-Martin Vieth. Applied Magnetic Resonance, 2013, 44, 3-6	0.8	
260	Solvent and H/D isotope effects on the proton transfer pathways in heteroconjugated hydrogen-bonded phenol-carboxylic acid anions observed by combined UV-vis and NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7553-66	16.4	38
259	Melting of Low Molecular Weight Compounds in Confinement Observed by 2H-Solid State NMR: Biphenyl, a Case Study. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2012</b> , 226, 1169-1186	3.1	13
258	The Mobility of Water Molecules through Hydrated Pores. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9616-9630	3.8	14

257	Hydrogen bond geometries and proton tautomerism of homoconjugated anions of carboxylic acids studied via H/D isotope effects on 13C NMR chemical shifts. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 11180-8	2.8	28
256	NMR studies of solid pentachlorophenol-4-methylpyridine complexes exhibiting strong OHN hydrogen bonds: geometric H/D isotope effects and hydrogen bond coupling cause isotopic polymorphism. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 11370-87	2.8	44
255	Kinetics of Coupled Double Proton and Deuteron Transfer in Hydrogen-Bonded Ribbons of Crystalline Pyrazole-4-carboxylic Acid. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2012</b> , 226, 1125-1148	3.1	9
254	Intrinsic proton-donating power of zinc-bound water in a carbonic anhydrase active site model estimated by NMR. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11331-8	16.4	26
253	2H NMR calculations on polynuclear transition metal complexes: on the influence of local symmetry and other factors. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 20199-207	3.6	13
252	Critical hydrogen bonds and protonation states of pyridoxal 5'-phosphate revealed by NMR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2011</b> , 1814, 1426-37	4	46
251	Eingekapselte Carbonsüre-Dimere mit verküzten Wasserstoffbrüken. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 548-552	3.6	3
250	Encapsulated carboxylic acid dimers with compressed hydrogen bonds. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 528-31	16.4	42
249	NMR study of conformational exchange and double-well proton potential in intramolecular hydrogen bonds in monoanions of succinic acid and derivatives. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 9828-36	2.8	14
248	Reaction pathways of proton transfer in hydrogen-bonded phenol-carboxylate complexes explored by combined UV-vis and NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7897-	9 <b>0</b> 8 <sup>.4</sup>	48
247	IR Studies of H/D Exchange of Water, Hydroxyl, and Carboxylic Groups Reveal Slowly Diffusing Lattice Defects in Sub-Nanometer Pores. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9393-9402	3.8	5
246	Efficient design of multituned transmission line NMR probes: the electrical engineering approach. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2011</b> , 39, 72-80	3.1	5
245	NMR studies of the stability, protonation States, and tautomerism of (13)C- AND (15)N-labeled aldimines of the coenzyme pyridoxal 5'-phosphate in water. <i>Biochemistry</i> , <b>2010</b> , 49, 10818-30	3.2	38
244	The hydrogen-bonded 2-pyridone dimer model system. 1. Combined NMR and FT-IR spectroscopy study. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 7749-60	2.8	56
243	Photoinduced proton transfer in a pyridine based polymer gel. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 10728-33	3.4	15
242	Hydrido-ruthenium cluster complexes as models for reactive surface hydrogen species of ruthenium nanoparticles. Solid-state 2H NMR and quantum chemical calculations. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11759-67	16.4	41
241	Geometries and tautomerism of OHN hydrogen bonds in aprotic solution probed by H/D isotope effects on (13)C NMR chemical shifts. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 10775-82	2.8	34
240	Effects of hydration on the acid-base interactions and secondary structures of poly-L-lysine probed by 15N and 13C solid state NMR. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 10235-45	3.6	7

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239	Counteranion-dependent mechanisms of intramolecular proton transfer in aprotic solution. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 10373-9	3.6	34
238	Symmetrization of cationic hydrogen bridges of protonated sponges induced by solvent and counteranion interactions as revealed by NMR spectroscopy. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 1679-90	4.8	47
237	NMR studies of the protonation states of pyridoxal-5?-phosphate in water. <i>Journal of Molecular Structure</i> , <b>2010</b> , 976, 282-289	3.4	22
236	Heavy atom motions and tunneling in hydrogen transfer reactions: the importance of the pre-tunneling state. <i>Journal of Physical Organic Chemistry</i> , <b>2010</b> , 23, 586-605	2.1	42
235	Kombinierte Fl\(\text{L}\)sigkeits-NMR- und UV/Vis-Spektroskopie: Untersuchung der Struktur starker OHO-Wasserstoffbr\(\text{L}\)ken von Phenolen mit Carbons\(\text{L}\)ren. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 5855-5858	3.6	9
234	Structural analysis of zincocenes with substituted cyclopentadienyl rings. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 924-35	4.8	15
233	A DFT and AIM analysis of the spin-spin couplings across the hydrogen bond in the 2-fluorobenzamide and related compounds. <i>Magnetic Resonance in Chemistry</i> , <b>2009</b> , 47, 585-92	2.1	42
232	Combined NMR and UV/vis spectroscopy in the solution state: study of the geometries of strong OHO hydrogen bonds of phenols with carboxylic acids. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5745-7	16.4	40
231	2H-solid-state-NMR study of hydrogen adsorbed on catalytically active ruthenium coated mesoporous silica materials. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2009</b> , 35, 164-71	3.1	14
230	High-resolution 2H MAS NMR applied to deuterium analogs of hydrido eta2-dihydrogen complexes. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2009</b> , 36, 137-43	3.1	11
229	Isotope and phase effects on the proton tautomerism in polycrystalline porphycene revealed by NMR. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 2193-206	2.8	30
228	Solid-state NMR studies of aminocarboxylic salt bridges in L-lysine modified cellulose. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 934-40	3.4	29
227	OHO 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> , <b>2009</b> , 49, 199-216	3.4	118
226	Supplement To: OHO 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> , <b>2009</b> , 49, s1-s36	3.4	
225	Acid-induced amino side-chain interactions and secondary structure of solid poly-L-lysine probed by 15N and 13C solid state NMR and ab initio model calculations. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 7641-53	16.4	10
224	DFT 2H quadrupolar coupling constants of ruthenium complexes: a good probe of the coordination of hydrides in conjuction with experiments. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 5657-63	3.6	23
223	H/D isotope effects on NMR chemical shifts of nuclei involved in a hydrogen bridge of hydrogen isocyanide complexes with fluoride anion. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 5154-9	3.6	14
222	NMR studies of ultrafast intramolecular proton tautomerism in crystalline and amorphous n,n'-diphenyl-6-aminofulvene-1-aldimine: solid-state, kinetic isotope, and tunneling effects. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8620-32	16.4	33

221	Ruthenium nanoparticles inside porous [Zn4O(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> , <b>2008</b> , 130, 6119-30	16.4	319
220	Carboxylic acid-doped SBA-15 silica as a host for metallo-supramolecular coordination polymers. Journal of Physical Chemistry B, <b>2008</b> , 112, 14637-47	3.4	44
219	2H solid-state NMR of ruthenium complexes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1750	2186.4	31
218	Low-temperature NMR studies of Zn tautomerism and hindered rotations in solid zincocene derivatives. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 3557-65	2.8	7
217	Acid-base interactions and secondary structures of poly-L-lysine probed by 15N and 13C solid state NMR and Ab initio model calculations. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 15604-15	3.4	49
216	Mechanisms of Dipolar Ortho/Para-H2O Conversion in Ice. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2008</b> , 222, 1049-1063	3.1	37
215	Solid State and Gas Phase NMR Studies of Immobilized Catalysts and Catalytic Active Nanoparticles. <i>Topics in Catalysis</i> , <b>2008</b> , 48, 75-83	2.3	27
214	The largest 15N-15N coupling constant across an NHN hydrogen bond. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1123-6	16.4	26
213	Reactions of olefins with ruthenium hydride nanoparticles: NMR characterization, hydride titration, and room-temperature CC bond activation. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2074	-8 <sup>16.4</sup>	114
212	The Largest 15N🛮5N Coupling Constant Across an NHN Hydrogen Bond. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 1139-1142	3.6	9
211	Reactions of Olefins with Ruthenium Hydride Nanoparticles: NMR Characterization, Hydride Titration, and Room-Temperature C?C Bond Activation. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 2104-2108	3.6	29
210	NMR studies of double proton transfer in hydrogen bonded cyclic N,N'-diarylformamidine dimers: conformational control, kinetic HH/HD/DD isotope effects and tunneling. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 4498-513	3.6	35
209	Coupling of functional hydrogen bonds in pyridoxal-5'-phosphate-enzyme model systems observed by solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4440-55	16.4	94
208	1H/2H NMR studies of geometric H/D isotope effects on the coupled hydrogen bonds in porphycene derivatives. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 296-304	16.4	68
207	NMR studies of coupled low- and high-barrier hydrogen bonds in pyridoxal-5'-phosphate model systems in polar solution. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 6313-27	16.4	77
206	15N nuclear magnetic resonance studies of acid-base properties of pyridoxal-5'-phosphate aldimines in aqueous solution. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 3869-76	3.4	52
205	Nuclear magnetic resonance and ab initio studies of small complexes formed between water and pyridine derivatives in solid and liquid phases. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 6084-93	2.8	42
204	Hydrogen Bonding of Water Confined in Controlled-Pore Glass 10-75 Studied by 1H-Solid State NMR. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2007</b> , 221, 155-168	3.1	42

20	03	Structural and dynamical properties of guest molecules confined in mesoporous silica materials revealed by NMR. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 4843-53	3.6	130
20	)2	Geometric H/D isotope effects and cooperativity of the hydrogen bonds in porphycene. <i>ChemPhysChem</i> , <b>2007</b> , 8, 315-21	3.2	52
20	01	Observation by NMR of the tautomerism of an intramolecular OHOHN-charge relay chain in a model Schiff base. <i>Journal of Molecular Structure</i> , <b>2007</b> , 844-845, 319-327	3.4	39
20	00	NMR studies and DFT calculations of the symmetric intramolecular NHN-hydrogen bond of bis-(2-pyridyl)-acetonitrile: Isotope labeling strategy for the indirect 13C-detection of 15N15N couplings. <i>Journal of Molecular Structure</i> , <b>2007</b> , 844-845, 222-231	3.4	18
19	99	Agostic interaction and intramolecular proton transfer from the protonation of dihydrogen ortho metalated ruthenium complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 6945-50	11.5	48
19	98	NMR localization of protons in critical enzyme hydrogen bonds. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9558-9	16.4	63
19	97	NMR provides checklist of generic properties for atomic-scale models of periodic mesoporous silicas. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 12088-96	3.4	59
19	96	Novel insights into the mechanism of the ortho/para spin conversion of hydrogen pairs: implications for catalysis and interstellar water. <i>ChemPhysChem</i> , <b>2006</b> , 7, 551-4	3.2	58
19	95	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> , <b>2006</b> , 361, 1399-415	5.8	124
19	94	NMR studies of solvent-assisted proton transfer in a biologically relevant Schiff base: toward a distinction of geometric and equilibrium H-bond isotope effects. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 3375-87	16.4	100
19	93	Distinct dynamic behaviors of water molecules in hydrated pores. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10008-9	16.4	37
19	)2	Geometrical features of hydrogen bonded complexes involving sterically hindered pyridines. Journal of Physical Chemistry A, <b>2006</b> , 110, 10872-9	2.8	45
19	)1	X-ray crystallographic structures of enamine and amine Schiff bases of pyridoxal and its 1:1 hydrogen-bonded complexes with benzoic acid derivatives: evidence for coupled inter- and intramolecular proton transfer. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2006</b> , 62, 480-7		35
19	90	Mechanism of nuclear spin initiated para-H2 to ortho-H2 conversion. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 1929-35	3.6	67
18	39	H-Solid State NMR Studies of Tunneling Phenomena and Isotope Effects in Transition Metal Dihydrides. <i>Journal of Low Temperature Physics</i> , <b>2006</b> , 143, 55-114	1.3	29
18	38	Evidence of microphase separation in controlled pore glasses. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2005</b> , 28, 117-24	3.1	23
18	37	Dynamic NMR studies of base-catalyzed intramolecular single vs. intermolecular double proton transfer of 1,3-bis(4-fluorophenyl)triazene. <i>Chemical Physics</i> , <b>2005</b> , 319, 69-92	2.3	27
18	36	Direct NMR evidence for the presence of mobile surface hydrides on ruthenium nanoparticles. <i>ChemPhysChem</i> , <b>2005</b> , 6, 605-7	3.2	115

185	Hydrogen Bond Isotope Effects Studied by NMR <b>2005</b> , 193-230		2
184	The Saddle Form of Cyclotriveratrylene. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18772-18778	3.4	49
183	Conformational Analysis of Guaianolide-Type Sesquiterpene Lactones by Low-Temperature NMR Spectroscopy and Semiempirical Calculations. <i>Structural Chemistry</i> , <b>2004</b> , 15, 237-245	1.8	7
182	NMR parameters and geometries of OHN and ODN hydrogen bonds of pyridine-acid complexes. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 5195-204	4.8	92
181	Hydrogen bonding of water confined in mesoporous silica MCM-41 and SBA-15 studied by 1H solid-state NMR. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 5689-96	4.8	285
180	Low-temperature NMR spectra of fluoridelicetic acid hydrogen-bonded complexes in aprotic polar environment. <i>Journal of Molecular Structure</i> , <b>2004</b> , 700, 3-12	3.4	15
179	NMR studies of solid stateBolvent and H/D isotope effects on hydrogen bond geometries of 1:1 complexes of collidine with carboxylic acids. <i>Journal of Molecular Structure</i> , <b>2004</b> , 700, 19-27	3.4	59
178	Empirical corrections for anharmonic zero-point vibrations of hydrogen and deuterium in geometric hydrogen bond correlations. <i>Journal of Molecular Structure</i> , <b>2004</b> , 706, 115-119	3.4	75
177	A simple method for the characterization of OHO-hydrogen bonds by 1H-solid state NMR spectroscopy. <i>Journal of Molecular Structure</i> , <b>2004</b> , 700, 29-38	3.4	62
176	Water molecules in hydroxy/acid networks as a competition between dynamics and bonding. Synthesis of a wet hydrophobic pore. <i>Bioorganic and Medicinal Chemistry</i> , <b>2004</b> , 12, 1305-14	3.4	4
175	Ortho-Metalated Ruthenium Hydrido Dihydrogen Complexes: Dynamics, Exchange Couplings, and Reactivity. <i>Organometallics</i> , <b>2004</b> , 23, 1424-1433	3.8	47
174	Binding of an acetic acid ligand to adenosine: a low-temperature NMR study. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 2135-41	16.4	39
173	Characterization of fluxional hydrogen-bonded complexes of acetic acid and acetate by NMR: geometries and isotope and solvent effects. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5621-	-3 <sup>4</sup> 6.4	114
172	Dynamic NMR study of the mechanisms of double, triple, and quadruple proton and deuteron transfer in cyclic hydrogen bonded solids of pyrazole derivatives. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 11718-32	16.4	89
171	Bridging the gap between homogeneous and heterogeneous catalysis: ortho/para H(2) conversion, hydrogen isotope scrambling, and hydrogenation of olefins by Ir(CO)Cl(PPh(3))(2). <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8366-7	16.4	42
170	Kinetic Hydrogen/Deuterium Isotope Effects in Multiple Proton Transfer Reactions. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2004</b> , 218, 17-50	3.1	16
169	Pyridine-15N A Mobile NMR Sensor for Surface Acidity and Surface Defects of Mesoporous Silica. Journal of Physical Chemistry B, <b>2003</b> , 107, 11924-11939	3.4	229
168	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> , <b>2003</b> , 125, 11710-20	16.4	159

## (2001-2002)

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