Wolfgang Jger

List of Publications by Citations

82 papers	1,794 citations	26 h-index	38 g-index
88 ext. papers	2,033 ext. citations	4.9 avg, IF	4.94 L-index

#	Paper	IF	Citations
82	Evidence for heavy atom large amplitude motions in RG-cyclopropane van der Waals complexes (RG=Ne, Ar, Kr) from rotation-tunneling spectroscopy. *Journal of Chemical Physics*, **1997**, 106, 7968-7980	3.9	153
81	Spectroscopic exploration of atomic scale superfluidity in doped helium nanoclusters. *Physical Review Letters*, **2006**, 97, 183401	7.4	82
80	Rotational spectroscopic investigation of carbonyl sulfide solvated with helium atoms. *Journal of Chemical Physics*, **2003**, 119, 5457-5466	3.9	76
79	Rotational spectrum, structure, and chlorine nuclear quadrupole coupling constants of the van der Waals complex Ar□l2. *Journal of Chemical Physics*, **1993**, 98, 3726-3731	3.9	69
78	Microwave spectra of metal chlorides produced using laser ablation. *Journal of Chemical Physics*, **1993**, 99, 3320-3328	3.9	67
77	Pure rotational spectra of the mixed rare gas van der Waals complexes Ne□e, Ar□e, and Kr□e. *Journal of Chemical Physics*, **1993**, 99, 919-927	3.9	66
76	Microwave spectroscopy of ternary and quaternary van der Waals clusters. *International Reviews in Physical Chemistry*, **2005**, 24, 301-338	7	56
75	Spectroscopic studies of OCS-doped 4He clusters with 9-72 helium atoms: observation of broad oscillations in the rotational moment of inertia. *Journal of Physical Chemistry A*, **2007**, 111, 7329-37	2.8	47
74	Microwave-submillimeter wave double-resonance spectrometer for the investigation of van der Waals complexes. *Review of Scientific Instruments*, **1998**, 69, 4061-4067	1.7	44
73	Direct Spectroscopic detection of the orientation of free OH groups in methyl lactate-(water)(1,2) clusters: hydration of a chiral hydroxy ester. *Angewandte Chemie - International Edition*, **2014**, 53, 1156-9	16.4	43
72	Investigation of the Ne-NH3 van der Waals complex: Rotational spectrum and ab initio calculations. *Journal of Chemical Physics*, **2001**, 115, 6504-6512	3.9	41
71	A Direct Link from the Gas to the Condensed Phase: A Rotational Spectroscopic Study of 2,2,2-Trifluoroethanol Trimers. *Angewandte Chemie - International Edition*, **2017**, 56, 6289-6293	16.4	40
70	High resolution spectroscopy of Ne and Ar containing noble gas clusters. *Journal of Chemical Physics*, **1997**, 107, 4788-4796	3.9	40
69	Rotational spectroscopic study of hydrogen cyanide embedded in small 4He clusters. *Journal of Chemical Physics*, **2012**, 137, 174303	3.9	39
68	Rotational spectra of the mixed rare gas dimers Ne□r and Ar□r. *Journal of Chemical Physics*, **1995**, 103, 2827-2833	3.9	35
67	The microwave rotational spectrum of the van der Waals complex Kr□2. *Journal of Chemical Physics*, **1993**, 99, 7510-7520	3.9	34
66	The benzoic acid-water complex: a potential atmospheric nucleation precursor studied using microwave spectroscopy and ab initio calculations. *Physical Chemistry Chemical Physics*, **2014**, 16, 2305-14	3.6	33

65	Microwave spectroscopic investigation of the mixed rare gas van der Waals trimers Ne2Kr and Ne2Xe. *Journal of Chemical Physics*, **1994**, 100, 4171-4180	3.9	31
64	Rotational spectra of the Kr-H2O van der Waals complex. *Molecular Physics*, **2000**, 98, 1575-1588	1.7	30
63	The Chiral Trimer and a Metastable Chiral Dimer of Achiral Hexafluoroisopropanol: A Multi-Messenger Study. *Angewandte Chemie - International Edition*, **2019**, 58, 5080-5084	16.4	30
62	The dynamics of the CON2 interaction: Strong Coriolis coupling in CO-paraN2. *Journal of Chemical Physics*, **2000**, 113, 514-524	3.9	29
61	Rotational spectra and theoretical study of tetramers and trimers of 2-fluoroethanol: dramatic intermolecular compensation for intramolecular instability. *Physical Chemistry Chemical Physics*, **2018**, 20, 27630-27637	3.6	28
60	Chirped-pulse and cavity-based Fourier transform microwave spectroscopy of a chiral epoxy ester: methyl glycidate. *Journal of Physical Chemistry A*, **2013**, 117, 13249-54	2.8	27
59	A Direct Link from the Gas to the Condensed Phase: A Rotational Spectroscopic Study of 2,2,2-Trifluoroethanol Trimers. *Angewandte Chemie*, **2017**, 129, 6386-6390	3.6	26
58	Unusual H-Bond Topology and Bifurcated H-bonds in the 2-Fluoroethanol Trimer. *Angewandte Chemie - International Edition*, **2015**, 54, 11711-5	16.4	26
57	The rotational spectra of the fluorobenzene?water and p-difluorobenzene?water dimers: Structure and internal dynamics. *Journal of Molecular Spectroscopy*, **2011**, 268, 47-52	1.3	26
56	Hydration of the simplest α-keto acid: a rotational spectroscopic and ab initio study of the pyruvic acid-water complex. *Physical Chemistry Chemical Physics*, **2017**, 19, 4440-4446	3.6	24
55	Rotational Spectra of Two Hydrogen-Bonded Methyl Salicylate Monohydrates: Relative Stability and Tunneling Motions. *Journal of Physical Chemistry Letters*, **2015**, 6, 3126-3131	6.4	23
54	The rich conformational landscape of perillyl alcohol revealed by broadband rotational spectroscopy and theoretical modelling. *Physical Chemistry Chemical Physics*, **2019**, 21, 15408-15416	3.6	23
53	Direct observation of rotational transitions of the COCO dimer. *Journal of Chemical Physics*, **1999**, 111, 5754-5756	3.9	23
52	Microwave spectra of the ArND3 van der Waals complex and its partially protonated isotopomers. *Journal of Chemical Physics*, **2001**, 114, 3968-3976	3.9	21
51	Fourier transform microwave rotational spectra of the Ne2N2O and Ar2N2O van der Waals trimers. *Journal of Chemical Physics*, **1999**, 111, 3919-3928	3.9	20
50	Discovering the Elusive Global Minimum in a Ternary Chiral Cluster: Rotational Spectra of Propylene Oxide Trimer. *Angewandte Chemie - International Edition*, **2020**, 59, 22427-22430	16.4	20
49	Decelerating molecules with microwave fields. *Physical Review A*, **2012**, 85,	2.6	19
48	Microwave rotational spectra of the Kr-NH3 van der Waals complex. *Molecular Physics*, **2001**, 99, 1215-1228	1.7	19

47	Chirped-pulse and cavity-based Fourier transform microwave spectra of the methyl lactate–ammonia adduct. *Angewandte Chemie - International Edition*, **2013**, 52, 4402-5	16.4	18
46	Relative Humidity Dependence of Soot Aggregate Restructuring Induced by Secondary Organic Aerosol: Effects of Water on Coating Viscosity and Surface Tension. *Environmental Science and Technology Letters*, **2017**, 4, 386-390	11	17
45	Chirality induction and amplification in the 2,2,2-trifluoroethanol???propylene oxide adduct. *Angewandte Chemie - International Edition*, **2014**, 53, 7277-80	16.4	17
44	Rotational spectra and internal dynamics of Ne–H2S. *Molecular Physics*, **2002**, 100, 611-622	1.7	17
43	The Chiral Trimer and a Metastable Chiral Dimer of Achiral Hexafluoroisopropanol: A Multi-Messenger Study. *Angewandte Chemie*, **2019**, 131, 5134-5138	3.6	15
42	High-resolution rotational spectroscopy of H2-OCS: a study of minor isotopomers of OCS. *Molecular Physics*, **2008**, 106, 23-31	1.7	15
41	Tunnelling and barrier-less motions in the 2-fluoroethanol-water complex: a rotational spectroscopic and ab initio study. *Physical Chemistry Chemical Physics*, **2017**, 19, 12221-12228	3.6	14
40	Conformational Panorama and Chirality Controlled Structure-Energy Relationship in a Chiral Carboxylic Acid Dimer. *Angewandte Chemie - International Edition*, **2020**, 59, 15703-15710	16.4	14
39	Direkter spektroskopischer Nachweis spezifischer Orientierungen freier OH-Gruppen in Methyllactat-(Wasser)1,2-Clustern: Hydratation eines chiralen Hydroxyesters. *Angewandte Chemie*, **2014**, 126, 1175-1178	3.6	14
38	Rotational spectroscopy of the atmospheric photo-oxidation product o-toluic acid and its monohydrate. *Physical Chemistry Chemical Physics*, **2016**, 18, 448-57	3.6	13
37	Relationship between Coating-Induced Soot Aggregate Restructuring and Primary Particle Number. *Environmental Science & Technology*, **2017**, 51, 8376-8383	10.3	13
36	Microwave spectroscopic investigation of the Ne–acetylene van der Waals dimer. *Physical Chemistry Chemical Physics*, **2003**, 5, 1744-1751	3.6	13
35	Contrasting Effects of Water on the Barriers to Decarboxylation of Two Oxalic Acid Monohydrates: A Combined Rotational Spectroscopic and Ab Initio Study. *Journal of Physical Chemistry Letters*, **2016**, 7, 1143-7	6.4	13
34	Rotational spectroscopy of the methyl glycidate-water complex: conformation and water and methyl rotor tunnelling motions. *Physical Chemistry Chemical Physics*, **2017**, 19, 29508-29515	3.6	12
33	Single and double resonance spectroscopy of methanol embedded in superfluid helium nanodroplets. *Journal of Chemical Physics*, **2014**, 141, 044301	3.9	12
32	Chirality Induction and Amplification in the 2,2,2-Trifluoroethanol???Propylene Oxide Adduct. *Angewandte Chemie*, **2014**, 126, 7405-7408	3.6	11
31	Enhanced Evaporation of Microscale Droplets With an Infrared Laser. *Journal of Heat Transfer*, **2017** , 139,	1.8	10
30	Unusual H-Bond Topology and Bifurcated H-bonds in the 2-Fluoroethanol Trimer. *Angewandte Chemie*, **2015**, 127, 11877-11881	3.6	10

29	Microwave rotational spectra of the Ar3NH3 van der Waals tetramer. *Journal of Chemical Physics*, **2002**, 116, 2379-2387	3.9	10
28	The 1-Naphthol Dimer and Its Surprising Preference for Stacking over Hydrogen Bonding. *Journal of Physical Chemistry Letters*, **2019**, 10, 2836-2841	6.4	9
27	HIGH-RESOLUTION FOURIER-TRANSFORM MICROWAVE SPECTROSCOPY OF METHYL- AND DIMETHYLNAPTHALENES. *Astrophysical Journal*, **2015**, 805, 141	4.7	9
26	Microwave rotational spectroscopic investigation of the Ar2NH3 van der Waals trimer. *Physical Chemistry Chemical Physics*, **2002**, 4, 4883-4889	3.6	9
25	Spectroscopic study of the mixed rare-gas molecule van der Waals trimer NeArHCl. *Journal of Chemical Physics*, **1999**, 110, 4354-4362	3.9	9
24	Rotational spectroscopy of chiral tetrahydro-2-furoic acid: Conformational landscape, conversion, and abundances. *Journal of Chemical Physics*, **2018**, 149, 224306	3.9	9
23	Microwave and ab initio studies of the internal rotation of ethylene in the Ar-ethylene and Ne-ethylene van der Waals complexes. *Journal of Chemical Physics*, **2003**, 119, 8449-8463	3.9	8
22	Shapes of rotating normal fluid He3 versus superfluid He4 droplets in molecular beams. *Physical Review B*, **2020**, 102,	3.3	8
21	Rotational Spectroscopy of p-Toluic Acid and Its 1:1 Complex with Water. *Journal of Physical Chemistry A*, **2017**, 121, 8625-8631	2.8	7
20	A microwave spectroscopic and ab initio study of keto-enol tautomerism and isomerism in the cyclohexanone-water complex. *Physical Chemistry Chemical Physics*, **2019**, 21, 12872-12880	3.6	7
19	Rotational spectroscopic and theoretical study of the perfluorobutyric acid?formic acid complex. *Journal of Molecular Spectroscopy*, **2017**, 335, 88-92	1.3	5
18	Theoretical study of the microwave spectrum of isotopologues of OCS(He)2. *Canadian Journal of Chemistry*, **2010**, 88, 1146-1154	0.9	5
17	Discovering the Elusive Global Minimum in a Ternary Chiral Cluster: Rotational Spectra of Propylene Oxide Trimer. *Angewandte Chemie*, **2020**, 132, 22613-22616	3.6	5
16	Rotational spectroscopy of methyl benzoylformate and methyl mandelate: structure and internal dynamics of a model reactant and product of enantioselective reduction. *Physical Chemistry Chemical Physics*, **2015**, 17, 21942-9	3.6	4
15	Microwave spectroscopy of the seeded binary and ternary clusters CO-(pH2)2, CO-pH2-He, CO-HD, and CO-(oD2)(N=1,2). *Journal of Chemical Physics*, **2015**, 142, 144308	3.9	3
14	Conformational Panorama and Chirality Controlled Structure Energy Relationship in a Chiral Carboxylic Acid Dimer. *Angewandte Chemie*, **2020**, 132, 15833-15840	3.6	3
13	The ArNe-N2O van der Waals trimer: a high resolution spectroscopic study of its rotational spectrum, structure and dynamics. *Molecular Physics*, **2001**, 99, 13-24	1.7	3
12	Microwave spectrum of the complex of 3,3,3-trifluoro-2-(trifluoromethyl)propanoic acid and formic acid. *Molecular Physics*, **2019**, 117, 1193-1199	1.7	3

11	Conformational Landscape, Chirality Recognition and Chiral Analyses: Rotational Spectroscopy of Tetrahydro-2-Furoic Acid???Propylene Oxide Conformers. *ChemPhysChem*, **2021**, 22, 455-460	3.2	3
10	Rotational Spectroscopic Study of Quantum Solvation in Isotopologic (pH)-CO Clusters. *Journal of Physical Chemistry A*, **2017**, 121, 3671-3678	2.8	2
9	A spectroscopic and ab initio study of the hydrogen peroxide-formic acid complex: hindering the internal motion of HO. *Physical Chemistry Chemical Physics*, **2018**, 20, 21345-21351	3.6	2
8	Aggregation of solutes in bosonic versus fermionic quantum fluids. *Science Advances*, **2021**, 7, eabk2247	14.3	2
7	Structural and dynamical features of the 2,2,2-trifluoroethanolammonia complex. *Physical Chemistry Chemical Physics*, **2020**, 22, 23019-23027	3.6	2
6	Higher-Energy Hexafluoroisopropanol□□Water Isomer and Its Large Amplitude Motions: Rotational Spectra and DFT Calculations. *Journal of Physical Chemistry A*, **2021**, 125, 10401-10409	2.8	1
5	Conformational landscape and intricate conformational relaxation paths of 4,4,4-trifluoro-1-butanol: Rotational spectroscopy and quantum chemical calculations. *Journal of Molecular Structure*, **2020**, 1217, 128359	3.4	1
4	Rotational Spectrum and Molecular Structures of the Binary Aggregates of 1,1,1,3,3,3-Hexafluoro-2-propanol with Ne and Ar. *Journal of Physical Chemistry A*, **2021**, 125, 5355-5364	2.8	1
3	Unusual binary aggregates of perylene bisimide revealed by their electronic transitions in helium nanodroplets and DFT calculations. *Physical Chemistry Chemical Physics*, **2021**, 23, 13862-13872	3.6	1
2	A rotational spectroscopic and study of - and -(-)-carveol: further insights into conformational dynamics in monoterpenes and monoterpenoids. *Physical Chemistry Chemical Physics*, **2021**, 23, 15159-15168	3.6	1
1	Hydrogen bonding interactions in the 1,1,1,3,3,3-hexafluoro-2-propanol□1,4-dioxane complex: Rotational spectroscopy and density functional theory calculations. *Journal of Molecular Spectroscopy*, **2021**, 376, 111408	1.3	1