Martin Quack

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.

60 14,137 102 299 h-index g-index citations papers 6.55 14,868 312 3.4 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
299	Atomic and Molecular Tunneling Processes in Chemistry 2021 , 231-282		1
298	High resolution ro-vibrational analysis of molecules in doublet electronic states: the fundamental of chlorine dioxide (OClO) in the electronic ground state. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4580-4596	3.6	3
297	Foundations of Time Dependent Quantum Dynamics of Molecules Under Isolation and in Coherent Electromagnetic Fields 2021 , 1-41		1
296	Nuclear spin symmetry conservation studied by cavity ring-down spectroscopy of ammonia in a seeded supersonic jet from a pulsed slit nozzle. <i>Molecular Physics</i> , 2020 , 118, e1752946	1.7	4
295	Fundamental and approximate symmetries, parity violation and tunneling in chiral and achiral molecules. <i>Advances in Quantum Chemistry</i> , 2020 , 81, 51-104	1.4	4
294	Roadmap on STIRAP applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 202001	1.3	54
293	Nuclear Spin Symmetry Conservation Studied for Symmetric Top Molecules (CHD, CHD, CHF, and CHCl) in Supersonic Jet Expansions. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6160-6174	2.8	4
292	Quantum dynamics and spectra of the iodine atom in a strong laser field as calculated with the URIMIR package. <i>Molecular Physics</i> , 2019 , 117, 3132-3147	1.7	2
291	The Gigahertz and Terahertz spectrum of monodeutero-oxirane (c-CHDO). <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3669-3675	3.6	4
290	First line strength analysis of 34SO2 in the II region: Isotopic relations for the dipole moment parameters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 229, 166-178	2.1	3
289	Controlling tunneling in ammonia isotopomers. <i>Journal of Chemical Physics</i> , 2019 , 150, 014102	3.9	19
288	Trendbericht Physikalische Chemie 2017: Atomare und molekulare Tunnelprozesse. <i>Nachrichten Aus Der Chemie</i> , 2018 , 66, 307-315	0.1	3
287	A molecular quantum switch based on tunneling in meta-d-phenol CHDOH. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7387-7394	3.6	6
286	Extended analysis of the high resolution FTIR spectrum of 32S16O2 in the region of the ½ band: Line positions, strengths, and pressure broadening widths. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 210, 141-155	2.1	15
285	Intramolecular vibrational energy redistribution in HCCCHX (X = Cl, Br, I) measured by femtosecond pump-probe experiments in a hollow waveguide. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10949-1	103959	6
284	High resolution FTIR spectroscopy of fluoroform 12CHF3 and critical analysis of the infrared spectrum from 25 to 1500 cm. <i>Molecular Physics</i> , 2018 , 116, 1091-1107	1.7	4
283	High resolution analysis of the FTIR spectra of trifluoroamine NF3. <i>Journal of Molecular Spectroscopy</i> , 2018 , 348, 87-102	1.3	13

(2015-2018)

282	Nuclear spin symmetry conservation and relaxation of water (H216O) seeded in supersonic jets of argon and oxygen: measurements by cavity ring-down laser spectroscopy. <i>Molecular Physics</i> , 2018 , 116, 3718-3730	1.7	8	
281	High-resolution FTIR spectroscopy of trisulfane HSSSH: a candidate for detecting parity violation in chiral molecules. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11738-11743	3.6	7	
2 80	High resolution Fourier transform infrared spectroscopy of the ground state, B,2B and A levels of 13CHF3. <i>Journal of Molecular Spectroscopy</i> , 2017 , 337, 96-104	1.3	4	
279	Combined synchrotron-based high resolution FTIR and IR-diode laser supersonic jet spectroscopy of the chiral molecule CDBrClF. <i>Journal of Molecular Spectroscopy</i> , 2017 , 337, 105-123	1.3	3	
278	Isotope effects on the resonance interactions and vibrational quantum dynamics of fluoroform CHF. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 26527-26534	3.6	7	
277	On the use of nonrigid-molecular symmetry in nuclear motion computations employing a discrete variable representation: A case study of the bending energy levels of CH. <i>Journal of Chemical Physics</i> , 2017 , 147, 134101	3.9	22	
276	High resolution GHz and THz (FTIR) spectroscopy and theory of parity violation and tunneling for 1,2-dithiine (C4H4S2) as a candidate for measuring the parity violating energy difference between enantiomers of chiral molecules. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21976-93	3.6	12	
275	Chlorine peroxide (Cl2O2) and its isomers: structures, spectroscopy, formation and thermochemistry. <i>Molecular Physics</i> , 2016 , 114, 1135-1147	1.7	6	
274	A combined Gigahertz and Terahertz (FTIR) spectroscopic investigation of meta-D-phenol: observation of tunnelling switching. <i>Molecular Physics</i> , 2016 , 114, 2751-2768	1.7	10	
273	Synchrotron-Based Highest Resolution Terahertz Spectroscopy of the IBand System of 1,2-Dithiine (CHS): A Candidate for Measuring the Parity Violating Energy Difference between Enantiomers of Chiral Molecules. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3847-3853	6.4	14	
272	Synchrotron-based highest resolution FTIR spectroscopy of chlorobenzene. <i>Journal of Molecular Spectroscopy</i> , 2015 , 315, 92-101	1.3	18	
271	Fixierte Konstanten. <i>Nachrichten Aus Der Chemie</i> , 2015 , 63, 515-521	0.1	1	
270	Computation of molecular parity violation using the coupled-cluster linear response approach. <i>Molecular Physics</i> , 2015 , 113, 1768-1779	1.7	14	
269	Line shape of amplitude or frequency-modulated spectral profiles including resonator distortions. <i>Applied Optics</i> , 2015 , 54, 4417-31	1.7	4	
268	Investigation of the 🛘 + 2🖪 Subband in the Overtone Icosad of 13CH4 by Pulsed Supersonic Jet and Diode Laser Cavity Ring-Down Spectroscopy: Partial Rovibrational Analysis and Nuclear Spin Symmetry Conservation. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229, 1575-1607	3.1	4	
267	Infrared laser induced population transfer and parity selection in (14)NH3: A proof of principle experiment towards detecting parity violation in chiral molecules. <i>Journal of Chemical Physics</i> , 2015 , 143, 244305	3.9	26	
266	Tunneling and Parity Violation in Trisulfane (HSSSH): An Almost Ideal Molecule for Detecting Parity Violation in Chiral Molecules. <i>ChemPhysChem</i> , 2015 , 16, 3584-9	3.2	20	
265	High-resolution rovibrational spectroscopy of fluorobenzene, C6H5F: analysis of the B1 fundamentals 4, 10b, 17b, the B2 fundamental 15 and assignment of the A1 levels 12, 216a and 218b Molecular Physics, 2015 , 113, 2267-2289	1.7	2	

264	Wavepacket Dynamics of the Axially Chiral Molecule Cl-O-O-Cl under Coherent Radiative Excitation and Including Electroweak Parity Violation. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 12805-22	2.8	16
263	Myths, Challenges, Risks and Opportunities in Evaluating and Supporting Scientific Research 2015 , 223-	239	1
262	On the <code>Bxpanded</code> local modelapproach applied to the methane molecule: isotopic substitutions CH3D <-CH4 and CHD3 <-CH4. <i>Molecular Physics</i> , 2014 , 112, 2529-2556	1.7	21
261	Survey of the high resolution infrared spectrum of methane ((12)CH4 and (13)CH4): partial vibrational assignment extended towards 12,000 cm(-1.). <i>Journal of Chemical Physics</i> , 2014 , 141, 234302	<u>3</u> .9	51
2 60	On Biomolecular Homochirality as a Quasi-Fossil of the Evolution of Life. <i>Advances in Chemical Physics</i> , 2014 , 247-291		5
259	The Concept of Law and Models in Chemistry. <i>European Review</i> , 2014 , 22, S50-S86	0.3	25
258	Error and discovery: why repeating can be new. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9362-70	16.4	6
257	Methane line parameters in the HITRAN2012 database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 130, 201-219	2.1	110
256	High resolution spectroscopy and the first global analysis of the Tetradecad region of methane 12CH4. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10071-93	3.6	66
255	Tunneling and Tunneling Switching Dynamics in Phenol and Its Isotopomers from High-Resolution FTIR Spectroscopy with Synchrotron Radiation. <i>Angewandte Chemie</i> , 2013 , 125, 364-367	3.6	7
254	Tunneling and tunneling switching dynamics in phenol and its isotopomers from high-resolution FTIR spectroscopy with synchrotron radiation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 346-	.₫ ^{6.} 4	33
253	Nuclear spin symmetry conservation and relaxation in water ((1)H2(16)O) studied by cavity ring-down (CRD) spectroscopy of supersonic jets. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 10105-18	2.8	25
252	Global analytical potential energy surface for the electronic ground state of NH3 from high level ab initio calculations. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 7502-22	2.8	35
251	Analysis of the rovibrational spectrum of 13CH4 in the Octad range. <i>Journal of Molecular Spectroscopy</i> , 2013 , 291, 33-47	1.3	45
250	Irrtum und Erkenntnis: Wenn Wiederholen neu ist. <i>Angewandte Chemie</i> , 2013 , 125, 9530-9538	3.6	4
249	Synchrotron-based rotationally resolved high-resolution FTIR spectroscopy of azulene and the unidentified infrared bands of astronomy. <i>ChemPhysChem</i> , 2013 , 14, 3204-8	3.2	9
248	Molecular Parity Violation and Chirality: The Asymmetry of Life and the Symmetry Violations in Physics. <i>Progress in Theoretical Chemistry and Physics</i> , 2012 , 47-76	0.6	8
247	Reinvestigation of the 🛘 + 2🖪 subband in the overtone icosad of 12CH4 using cavity ring-down (CRD) spectroscopy of a supersonic jet expansion. <i>Molecular Physics</i> , 2012 , 110, 2111-2135	1.7	28

246	High-Resolution Fourier Transform Infrared Spectroscopy 2011 ,		13
245	Synchrotron-based highest resolution Fourier Transform infrared spectroscopy of naphthalene (C10H8) and indole (C8H7N) and its application to astrophysical problems. <i>Faraday Discussions</i> , 2011 , 150, 71-99; discussion 113-60	3.6	54
244	Frontiers in spectroscopy. <i>Faraday Discussions</i> , 2011 , 150, 533-65	3.6	34
243	Molecular Quantum Mechanics and Molecular Spectra, Molecular Symmetry, and Interaction of Matter with Radiation 2011 ,		6
242	Fundamental Symmetries and Symmetry Violations from High Resolution Spectroscopy 2011,		23
241	Global Analytical Potential Energy Surfaces for High-resolution Molecular Spectroscopy and Reaction Dynamics 2011 ,		8
240	High resolution infrared spectroscopy and global vibrational analysis for the CH3D and CHD3 isotopomers of methane. <i>Molecular Physics</i> , 2010 , 108, 1209-1240	1.7	54
239	High-resolution spectrum and rovibrational analysis of the 🗈 CH-stretching fundamental in CHD2I. <i>Molecular Physics</i> , 2010 , 108, 2403-2426	1.7	2
238	Twenty-first Colloquium on High-Resolution Molecular Spectroscopy. <i>Molecular Physics</i> , 2010 , 108, 675	-617 .j 6	O
237	Global analysis of the high resolution infrared spectrum of methane 12CH4 in the region from 0 to 4800cm 1 . <i>Chemical Physics</i> , 2009 , 356, 131-146	2.3	146
236	High-resolution near infrared spectroscopy and vibrational dynamics of dideuteromethane (CH2D2). <i>Journal of Physical Chemistry A</i> , 2009 , 113, 2218-31	2.8	48
235	High-resolution spectroscopic studies and theory of parity violation in chiral molecules. <i>Annual Review of Physical Chemistry</i> , 2008 , 59, 741-69	15.7	193
234	Analysis of the CH-chromophore spectra and dynamics in dideutero-methyliodide CHD2I1View all notes. <i>Molecular Physics</i> , 2008 , 106, 1303-1316	1.7	4
233	Global Analysis of the Infrared Spectrum of 13CH4: Lines in the Region 0 to 3200 cma. <i>Chimia</i> , 2008 , 62, 273-276	1.3	37
232	Twentieth Colloquium on High Resolution Molecular Spectroscopy. <i>Molecular Physics</i> , 2008 , 106, 1125-	112/6	1
231	Vibrational Predissociation in Hydrogen Bonded Dimers: The Case of (HF)2 and its Isotopomers. <i>Chimia</i> , 2008 , 62, 235-239	1.3	10
230	Rovibrational analysis of the 2B, 3B and bands of CHCl2F measured at 170 and 298 K by high-resolution FTIR spectroscopy. <i>Molecular Physics</i> , 2007 , 105, 541-558	1.7	36
229	High-resolution continuous-wave-diode laser cavity ring-down spectroscopy of the hydrogen fluoride dimer in a pulsed slit jet expansion: two components of the N=2 triad near 1.3 microm. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12659-68	2.8	26

228	General Discussion on Laser Control of Chemical Reactions. Advances in Chemical Physics, 2007, 373-390	١	1
227	Reaction Dynamics and Statistical Mechanics of the Preparation of Highly Excited States by Intense Infrared Radiation. <i>Advances in Chemical Physics</i> , 2007 , 395-473		77
226	High resolution rovibrational spectroscopy of chiral and aromatic compounds. <i>ChemPhysChem</i> , 2007 , 8, 1271-81	3.2	37
225	High resolution rovibrational spectroscopy of pyrimidine: Analysis of the B1 modes 10b and 12 and B2 mode 18b. <i>Journal of Molecular Spectroscopy</i> , 2007 , 243, 280-291	1.3	19
224	Stereomutation dynamics in hydrogen peroxide. <i>Chemical Physics</i> , 2007 , 338, 90-105	2.3	46
223	High Resolution FTIR and Diode Laser Supersonic Jet Spectroscopy of the N = 2 HF Stretching Polyad in (HF)2 and (HFDF): Hydrogen Bond Switching and Predissociation Dynamics. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 1581-1645	3.1	10
222	The NH and ND stretching fundamentals of 14NH2D. Journal of Molecular Spectroscopy, 2006, 237, 143-	148	21
221	Mode selective tunneling dynamics observed by high resolution spectroscopy of the bending fundamentals of 14NH2D and 14ND2H. <i>Journal of Chemical Physics</i> , 2006 , 125, 194319	3.9	27
220	High-resolution rovibrational analysis of vibrational states of A2 symmetry of the dideuterated methane CH2D2: the levels b and b + b . <i>Molecular Physics</i> , 2006 , 104, 3371-3386	1.7	49
219	Rovibrational analysis of the [4,2]6 Fermi resonance band of CH35ClF2 by means of a polyad Hamiltonian involving the vibrational levels [4, 2]6,[6+]9 and 2]9, and comparison with ab initio calculations. <i>Molecular Physics</i> , 2006 , 104, 2719-2735	1.7	15
218	Stereomutation tunneling switching dynamics and parity violation in chlorineperoxide Cl-O-O-Cl. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 3338-48	2.8	35
217	Nineteenth colloquium on high resolution molecular spectroscopy Salamanca 11 1 6 September 2005. <i>Molecular Physics</i> , 2006 , 104, 2579-2580	1.7	2
216	Physikalische Chemie 2005. Nachrichten Aus Der Chemie, 2006, 54, 282-291	0.1	2
215	Global analytical potential energy surface for large amplitude nuclear motions in ammonia. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8439-51	3.4	38
214	High resolution Fourier transform spectroscopy of CH2D2 in the region 2350-2650 cm(-1): the bands nu5 + nu7, 2nu9, nu3 + nu4, nu3 + nu7 and nu5 + nu9. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1142-50	3.6	47
213	Parity Violation in Chiral Molecules. <i>Chimia</i> , 2005 , 59, 530-538	1.3	44
212	Isotopic chirality and molecular parity violation. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3623-6	16.4	39
211	Isotopeneffekte durch ParitEsverletzung in chiralen MolekEn. Angewandte Chemie, 2005, 117, 3689-369	93.6	8

210	Steps towards molecular parity violation in axially chiral molecules. I. Theory for allene and 1,3-difluoroallene. <i>Journal of Chemical Physics</i> , 2005 , 123, 084305	3.9	28
209	Isotope Selective Infrared Spectroscopy and Intramolecular Dynamics 2005 , 305-360		
208	Eighteenth Colloquium on High Resolution Molecular Spectroscopy. <i>Molecular Physics</i> , 2004 , 102, 1499-	14 9 9	3
207	Mode-selective stereomutation tunneling and parity violation in HOClH+ and H2Te2 isotopomers. <i>International Journal of Mass Spectrometry</i> , 2004 , 233, 373-384	1.9	23
206	Ab initio calculation of parity-violating potential energy hypersurfaces of chiral molecules. <i>International Journal of Quantum Chemistry</i> , 2004 , 99, 393-407	2.1	25
205	Rovibrational analysis of the 🛭 and 🗗 🖰 bands of CHCl2F. <i>Journal of Molecular Structure</i> , 2004 , 695-696, 385-394	3.4	3
204	Doppler-limited FTIR spectrum of the v 3(a?)/v 8 (a?) Coriolis resonance dyad of CHC1F2: analysis and comparison with ab initio calculations. <i>Molecular Physics</i> , 2004 , 102, 1671-1686	1.7	14
203	Global Analytical Potential Hypersurface for Large Amplitude Nuclear Motion and Reactions in Methane II. Characteristic Properties of the Potential and Comparison to Other Potentials and Experimental Information Journal of Physical Chemistry A, 2004, 108, 3166-3181	2.8	77
202	Femtosecond intramolecular dymanics after near-IR excitation of CH 3 I, C 2 H 5 I, CF 3 CHFI, and C 7 H 8 molecules in the gas phase and in solution 2004 , 5337, 178		6
201	Theoretical Chemistry: Molecular Spectroscopy and Dynamics. <i>Chimia</i> , 2004 , 58, 263-275	1.3	4
200	Time and Time Reversal Symmetry in Quantum Chemical Kinetics 2004 , 423-474		12
199	Molecular Spectra, Reaction Dynamics, Symmetries and Life. <i>Chimia</i> , 2003 , 57, 147-160	1.3	41
198	Theory of Stereomutation Dynamics and Parity Violation in Hydrogen Thioperoxide Isotopomers 1,2,3HSO1,2,3H. <i>Helvetica Chimica Acta</i> , 2003 , 86, 1641-1652	2	28
197	Parity-Violating Potentials for the Torsional Motion of Methanol (CH3OH) and Its Isotopomers (CD3OH, 13CH3OH, CH3OD, CH3OT, CHD2OH, and CHDTOH). <i>Helvetica Chimica Acta</i> , 2003 , 86, 4048-40	<i>6</i> 0	19
196	Isotopomer-Selective Overtone Spectroscopy of Jet-Cooled Benzene by Ionization Detected IR + UV Double Resonance: TheN= 2 CH Chromophore Absorption of 12C6H6and 13C12C5H6near 6000 cm-1. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 10743-10752	2.8	16
195	Mode-selective stereomutation tunneling as compared to parity violation in hydrogen diselenide isotopomers 1,2,3H280Se2. <i>Israel Journal of Chemistry</i> , 2003 , 43, 353-362	3.4	12
194	Tunneling dynamics of the NH chromophore in NHD2 during and after coherent infrared excitation. Journal of Chemical Physics, 2003, 118, 643-658	3.9	37
193	A global electric dipole function of ammonia and isotopomers in the electronic ground state. <i>Journal of Chemical Physics</i> , 2003 , 119, 10724-10732	3.9	32

192	Ab initio calculations of mode selective tunneling dynamics in 12CH3OH and 13CH3OH. <i>Journal of Chemical Physics</i> , 2003 , 119, 5534-5544	3.9	48
191	The NH and ND stretching fundamentals of 14ND2H. <i>Journal of Chemical Physics</i> , 2003 , 119, 7893-7902	3.9	41
190	Combined multidimensional anharmonic and parity violating effects in CDBrClF. <i>Journal of Chemical Physics</i> , 2003 , 119, 11228-11240	3.9	66
189	Wie wichtig ist Parittsverletzung fildie molekulare und biomolekulare Chiralitt?. <i>Angewandte Chemie</i> , 2002 , 114, 4812-4825	3.6	49
188	How important is parity violation for molecular and biomolecular chirality?. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4618-30	16.4	344
187	Seventeenth Colloquium on High Resolution Molecular Spectroscopy. <i>Molecular Physics</i> , 2002 , 100, 348	313 / 483	3 4
186	High resolution analysis of the complex symmetric CF3 stretching chromophore absorption in CF3I. Journal of Chemical Physics, 2002 , 116, 974-983	3.9	13
185	High-resolution Fourier transform infrared and cw-diode laser cavity ringdown spectroscopy of the Z+2B band of methane near 7510 cmI in slit jet expansions and at room temperature. <i>Journal of Chemical Physics</i> , 2002 , 116, 6045-6055	3.9	70
184	Nonlinear intensity dependence in the infrared multiphoton excitation and dissociation of methanol pre-excited to different energies. <i>Journal of Chemical Physics</i> , 2002 , 117, 9793-9805	3.9	10
183	Anchoring the water dimer potential energy surface with explicitly correlated computations and focal point analyses. <i>Journal of Chemical Physics</i> , 2002 , 116, 690-701	3.9	239
182	High resolution FTIR spectra and analysis of the 11 fundamental and of the $1 + 11$, $1 + 12$ and $1 + 16$ combination bands of 12C6D6. <i>Molecular Physics</i> , 2002 , 100, 981-1001	1.7	8
181	Analysis of the $\mathbb{B}+\mathbb{I}$ combination band of CF2Cl2 from spectra obtained by high resolution diode laser and FTIR supersonic jet techniques. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1531-1536	3.6	13
180	High-resolution spectroscopy of the B band of WF6 and ReF6 in a supersonic jet. <i>Journal of Chemical Physics</i> , 2002 , 117, 3196-3207	3.9	16
179	Some simple mechanisms of multiphoton excitation in many-level systems. <i>Molecular Physics</i> , 2001 , 99, 1275-1287	1.7	11
178	Analytical three-body interaction potentials and hydrogen bond dynamics of hydrogen fluoride aggregates, (HF) n, n B. <i>Journal of Molecular Structure</i> , 2001 , 599, 381-425	3.4	44
177	Molecular chirality and the fundamental symmetries of physics: influence of parity violation on rovibrational frequencies and thermodynamic properties. <i>Chirality</i> , 2001 , 13, 745-53	2.1	56
176	Diode-Laser Jet Spectra and Analysis of the nu(1) and nu(4) Fundamentals of CCl(3)F. <i>Journal of Molecular Spectroscopy</i> , 2001 , 205, 102-109	1.3	12
175	Mode Selective Stereomutation and Parity Violation in Disulfane Isotopomers H2S2, D2S2, T2S2. Helvetica Chimica Acta, 2001 , 84, 1846-1861	2	46

174	ParitEsverletzung in Fluoroxiran. Angewandte Chemie, 2001, 113, 1716-1719	3.6	6
173	ParitEsverletzung dominiert die Dynamik der ChiralitE in Dischwefeldichlorid. <i>Angewandte Chemie</i> , 2001 , 113, 4342-4345	3.6	18
172	Parity Violation in Fluorooxirane. Angewandte Chemie - International Edition, 2001, 40, 1667-1670	16.4	30
171	Parity Violation Dominates the Dynamics of Chirality in Dichlorodisulfane. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 4195-4198	16.4	56
170	Electroweak Quantum Chemistry for Possible Precursor Molecules in the Evolution of Biomolecular Homochirality. <i>Helvetica Chimica Acta</i> , 2000 , 83, 1919-1950	2	34
169	Electroweak quantum chemistry of alanine: parity violation in gas and condensed phases. <i>ChemPhysChem</i> , 2000 , 1, 57-60	3.2	95
168	How do Parity Violating Weak Nuclear Interactions Influence Rovibrational Frequencies in Chiral Molecules?. <i>Zeitschrift Fur Physikalische Chemie</i> , 2000 , 214,	3.1	36
167	The v 1 and v 3 bands of ND3. <i>Molecular Physics</i> , 2000 , 98, 837-854	1.7	33
166	Vibrational spectra and intramolecular vibrational redistribution in highly excited deuterobromochlorofluoromethane CDBrClF: Experiment and theory. <i>Journal of Chemical Physics</i> , 2000 , 113, 2701-2718	3.9	29
165	Multiconfiguration linear response approach to the calculation of parity violating potentials in polyatomic molecules. <i>Journal of Chemical Physics</i> , 2000 , 112, 3148-3158	3.9	100
164	Influence of parity violating weak nuclear potentials on vibrational and rotational frequencies in chiral molecules. <i>Physical Review Letters</i> , 2000 , 84, 3807-10	7.4	103
163	Ab initio calculation and spectroscopic analysis of the intramolecular vibrational redistribution in 1,1,1,2-tetrafluoroiodoethane CF3CHFI. <i>Journal of Chemical Physics</i> , 2000 , 113, 2719-2735	3.9	33
162	Dynamical Chirality and the Quantum Dynamics of Bending Vibrations of the CH Chromophore in Methane Isotopomers <i>Journal of Physical Chemistry A</i> , 2000 , 104, 6129-6149	2.8	34
161	Ab initio calculations for the anharmonic vibrational resonance dynamics in the overtone spectra of the coupled OH and CH chromophores in CD2HDH. <i>Journal of Chemical Physics</i> , 1999 , 110, 11958-11970	3.9	32
160	Representation of parity violating potentials in molecular main chiral axes. <i>Chemical Physics Letters</i> , 1999 , 303, 547-557	2.5	54
159	Cw cavity ring-down infrared absorption spectroscopy in pulsed supersonic jets: nitrous oxide and methane. <i>Chemical Physics Letters</i> , 1999 , 314, 273-281	2.5	57
158	Mode selective stereomutation tunnelling in hydrogen peroxide isotopomers. <i>Chemical Physics Letters</i> , 1999 , 300, 312-320	2.5	94
157	Inversion Tunneling in Aniline from High Resolution Infrared Spectroscopy and an Adiabatic Reaction Path Hamiltonian Approach. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999 , 209, 1-19	3.1	56

156	A new six-dimensional analytical potential up to chemically significant energies for the electronic ground state of hydrogen peroxide. <i>Journal of Chemical Physics</i> , 1999 , 111, 2565-2587	3.9	165
155	High-resolution cavity ring-down absorption spectroscopy of nitrous oxide and chloroform using a near-infrared cw diode laser. <i>Chemical Physics Letters</i> , 1998 , 289, 527-534	2.5	68
154	Isotopomer-selective overtone spectroscopy by ionization detected IR+UV double resonance of jet-cooled aniline. <i>Chemical Physics Letters</i> , 1998 , 298, 320-328	2.5	36
153	The Synthesis of [2-2H1]Thiirane-1-oxide and [2,2-2H2]Thiirane-1-oxide and the Diastereoselective Infrared Laser Chemistry of [2-2H1]Thiirane-1-oxide. <i>Chemistry - A European Journal</i> , 1998 , 4, 441-448	4.8	19
152	HF dimer: Empirically refined analytical potential energy and dipole hypersurfaces from ab initio calculations. <i>Journal of Chemical Physics</i> , 1998 , 108, 10096-10115	3.9	146
151	Ab initio calculation of molecular energies including parity violating interactions. <i>Journal of Chemical Physics</i> , 1998 , 109, 7263-7285	3.9	140
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