Christof Maul

List of Publications by Year
in descending order

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85	1,227	331538	434063
papers	citations	21 h-index	31 g-index

86	86	86	635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photo induced three body decay. International Reviews in Physical Chemistry, 1997, 16, 1-79.	0.9	109
2	Imaging chemical reactions â€“ 3D velocity mapping. International Reviews in Physical Chemistry, 2009, 28, 607-680.	0.9	72
3	Aspects of Photoinduced Molecular Three-Body Decay. Journal of Physical Chemistry A, 2000, 104, 2531-2541.	1.1	47
4	High resolution analysis of the (111) vibrational state of SO2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 144, 1-10.	1.1	46
5	High resolution ro-vibrational analysis of interacting bands Î½ 4 , Î½ 7 , Î½ 10 , and Î½ 12 of 13 C 2 H 4. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 224-238.	1.1	46
6	Study of the high resolution FTIR spectrum of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0170.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>CH</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></ /><mml:msub><mml:mrow><mml:mi>CD</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:msub></mml in the region of 1300â€“1450 cmâ^'1: The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0171.gif" overflow="scroll"><mml:msub><mml. Journal of Quantitative Spectroscopy and Ra	1.1	38
7	Spin selectivity in the ultraviolet photodissociation of phosgene. Journal of Chemical Physics, 1995, 102, 3238-3247.	1.2	36
8	Precise ro-vibrational analysis of molecular bands forbidden in absorption: The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0179.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>8</mml:mn></mml:mrow></ band of 13C2H4. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 117-128.	1.1	36
9	Intermediate state polarization in multiphoton ionization of HCl. Journal of Chemical Physics, 2006, 125, 034310.	1.2	35
10	Re-analysis of the high resolution FTIR spectrum of C2H2D2-cis in the region of 1280â€“1400cmâ^'1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 170, 69-82.	1.1	35
11	Photoionization and photodissociation of HCl(BÎ£+1,J=0) near 236 and 239nm using three-dimensional ion imaging. Journal of Chemical Physics, 2006, 124, 224324.	1.2	34
12	Photodissociation dynamics of HN3. The N3 fragment internal energy distribution. Chemical Physics Letters, 1993, 202, 108-114.	1.2	33
13	Three-dimensional imaging technique for direct observation of the complete velocity distribution of state-selected photodissociation products. Review of Scientific Instruments, 2002, 73, 1856-1865.	0.6	32
14	Photodissociation dynamics of OClO: O(3PJ) state and energy distributions. Journal of Chemical Physics, 1997, 107, 10582-10591.	1.2	26
15	Photoinduced Near Ultraviolet Three Body Decay of Phosgene. Journal of Physical Chemistry A, 1997, 101, 6619-6632.	1.1	26
16	Ro-vibrational analysis of the hot bands of 13C2H4: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:r Journal of Molecular Spectroscopy, 2015, 317, 32-40.	0.4	26
17	High resolution analysis of C2D4 in the region of 600â€“1150 cmâ^'1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 55-70.	1.1	26
18	High-resolution spectroscopy and global analysis of CF 4 rovibrational bands to model its atmospheric absorption. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 75-93.	1.1	25

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19	Photodissociation dynamics of SOCl2. Physical Chemistry Chemical Physics, 2005, 7, 301-309.	1.3	22
20	Three-dimensional velocity map imaging: Setup and resolution improvement compared to three-dimensional ion imaging. Review of Scientific Instruments, 2009, 80, 083301.	0.6	22
21	High-resolution spectroscopy and analysis of the Î½₃/2Î½₄dyad of CF₄. Molecular Physics, 2011, 109, 2273-2290.	0.8	22
22	Evidence for the onset of three-body decay in photodissociation of vibrationally excited CHFCl2. Journal of Chemical Physics, 2001, 114, 9033-9039.	1.2	20
23	Photodissociation dynamics of phosgene: New observations by applying a three-dimensional imaging technique. Journal of Chemical Physics, 2002, 116, 2803-2810.	1.2	18
24	Competitive channels in the photodissociation of thionyl chloride. Physical Chemistry Chemical Physics, 2002, 4, 2932-2940.	1.3	18
25	Proton formation dynamics in the REMPI[2+n] process via the Fâ€‰Î”12 and fâ€‰Î”32 Rydberg states of HCl investigated by three-dimensional velocity mapping. Journal of Chemical Physics, 2010, 133, 024301.	1.2	18
26	Competing dissociation channels in the photolysis of S2Cl2 at 235 nm. Journal of Chemical Physics, 2002, 117, 4214-4219.	1.2	15
27	Photodissociation of CSCl2 at 235 nm: Kinetic energy distributions and branching ratios of Cl atoms and CSCl radicals. Journal of Chemical Physics, 2002, 117, 1123-1129.	1.2	15
28	Photodissociation dynamics of carbonyl chloride fluoride and its implications for phosgene three body decay. Physical Chemistry Chemical Physics, 1999, 1, 1441-1446.	1.3	14
29	An experimental study of interaction-induced effects in the IR spectra of HIâ€“Xe gas mixtures. Molecular Physics, 2006, 104, 2685-2690.	0.8	14
30	Dynamics of vibrationally mediated photodissociation of CH3CFCl2. Journal of Chemical Physics, 2001, 115, 6418-6425.	1.2	13
31	Spectral line parameters in the (3â†0) overtone band of the HI molecule and line-mixing in the band head. Journal of Molecular Spectroscopy, 2005, 230, 87-92.	0.4	13
32	Ultraviolet photolysis of formyl fluoride: the F+HCO product channel. Physical Chemistry Chemical Physics, 1999, 1, 767-772.	1.3	12
33	Non-invasive and isotope-selective laser-induced fluorescence spectroscopy of nitric oxide in exhaled air. Journal of Breath Research, 2007, 1, 026003.	1.5	12
34	First high resolution study of the interacting Î½8+Î½10, Î½6+Î½10, Î½6+Î½7 bands and re-analysis of the Î½7+Î½8 band of trans-d2-ethylene. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 76-88.	1.1	12
35	First high resolution analysis of the 2Î½1, 2Î½3, and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0064.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></ + <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0065.gif" Study of resonance interactions in polyatomic molecules on the basis of highly accurate experimental data: Set of strongly interacting Bands <mml:math	1.1	12
36	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0001.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>10</mml:mn></mml:mrow><mml:mrow><mml:mn></mml:mn></mml:mrow></ <mml:math xmlns:mml="http://. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 180, 14-28.	1.1	11

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37	Excited state dynamics of Cl2O in the near ultraviolet. Journal of Chemical Physics, 2002, 117, 2141-2150.	1.2	10
38	First high resolution analysis of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0036.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></r and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0037.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 179, 187-197.	1.1	10
39	Extended analysis of the high resolution FTIR spectra of H2S (M=32,33,34,36) in the region of the bending fundamental band: The Î½2 and 2Î½2âˆ’Î½2 bands: Line positions, strengths, and pressure broadening widths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 216, 76-98.	1.1	10
40	Pressure broadening and shifting parameters for the spectral lines in the fundamental vibrationâ€“rotation bands of HBr and HI in mixtures with rare gases. Journal of Molecular Spectroscopy, 2007, 243, 155-161.	0.4	9
41	First high resolution analysis of the 3Î½2 and 3Î½2âˆ’Î½2 bands of 32S16O2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 1-5.	1.1	9
42	Photoionization of NO(A2Î£+, v=0,N) at 226 nm: ion-recoil momentum spectroscopy. Chemical Physics Letters, 2004, 390, 50-54.	1.2	8
43	Photodissociation Dynamics of Cl2O:Â Interpretation of Electronic Transitionsâ€. Journal of Physical Chemistry A, 2004, 108, 7954-7964.	1.1	8
44	First study of the ro-vibrational structure of the g-symmetry vibrational states of C2D4 from the analysis of hot bands: The Î½7+Î½10âˆ’Î½10 and Î½10+Î½12âˆ’Î½10 bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 178-189.	1.1	8
45	The torsional fundamental band and high-J rotational spectra of the ground, first and second excited torsional states of acetone. Journal of Molecular Spectroscopy, 2019, 363, 111169.	0.4	8
46	State and energy characterisation of fluorine atoms in the A band photodissociation of F2. Chemical Physics Letters, 1999, 305, 319-326.	1.2	7
47	Recoil velocity-dependent spinâ€“orbit state distribution of chlorine photofragments. Chemical Physics, 2004, 301, 213-224.	0.9	7
48	Broadening and shifting coefficients of rotationâ€“vibrational lines in the fundamental and first overtone bands of HCl and HBr induced by oxygen and air. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 296-303.	1.1	7
49	Ethylene-1-13C (13C12CH4): First analysis of the Î½2, Î½3 and 2Î½10 bands and reâ€“analysis of the Î½12 band and of the ground vibrational state. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 403-413.	1.1	7
50	State-Resolved Photofragmentation of [ClNO]n van der Waals Clusters in a Supersonic Jet. Journal of Physical Chemistry A, 1999, 103, 1929-1938.	1.1	6
51	Pressure broadening and shifting parameters for the spectral lines in the first overtone vibrationâ€“rotation bands of HBr and HI in mixtures with rare gases. Journal of Molecular Spectroscopy, 2009, 253, 20-24.	0.4	6
52	Extended analysis of the FTIR highâ€“resolution spectrum of D232S in the region of the Î½2 band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 460-473.	1.1	6
53	Experimental line strengths of the 5Î½2 band of H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msubsup><mml:mrow /><mml:mn>2</mml:mn><mml:mn>32</mml:mn></mml:msubsup></mml:math>S in comparison with the results of â€œvariationalâ€•calculation and HITRAN database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 243, 106812.	1.1	6
54	Complete characterization of the constrained geometry bimolecular reaction O([sup 1]D)+N[sub 2]Oâ†’NO+NO by three-dimensional velocity map imaging. Journal of Chemical Physics, 2009, 131, 054307.	1.2	5

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55	On the ultraviolet absorption of nitrous oxide and its van der Waals complexes. Journal of Molecular Spectroscopy, 2009, 256, 80-85.	0.4	5
56	Measurement of the differential cross section of the photoinitiated reactive collision of O(D1)+D2 using only one molecular beam: A study by three dimensional velocity mapping. Journal of Chemical Physics, 2010, 132, 244308.	1.2	5
57	3-D Imaging technique â€“ observation of the three-dimensional product momentum distribution. , 2003, , 138-164.		4
58	Laser-induced fluorescence spectroscopy of14N18O and its application to breath analysis. Isotopes in Environmental and Health Studies, 2009, 45, 59-67.	0.5	4
59	Nitrogen-induced broadening and shifts of rotation-vibrational lines in the fundamental, first, second and third overtone bands of HI. Journal of Molecular Spectroscopy, 2011, 265, 69-73.	0.4	4
60	Multiphoton Ionization and Fragmentation of Hydrogen Chloride: A Diatomic Still Good for a Surprise. Journal of Atomic, Molecular, and Optical Physics, 2011, 2011, 1-9.	0.5	4
61	Extended analysis of FTIR high resolution spectra of HD32S and HD34S in the region of the Î½2 band: Positions and strengths of individual lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 286-300.	1.1	4
62	Extended FTIR high resolution analysis of hydrogen sulfide in the region of the second hexad: Line positions and roâ€“vibrational energies of H2MS (M=32,33,34). Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106710.	1.1	4
63	Extended high resolution analysis of the second triad of D232S, D233S and D234S. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106879.	1.1	4
64	Competition between two- and three-body decay of Cl2O. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 2001, 26, 513-517.	0.2	3
65	Measurement of Three-Dimensional Velocity Distributions of the Products of Cl2, NO, and HCl Photodissociation or Photoionization. Doklady Physical Chemistry, 2005, 402, 96-100.	0.2	3
66	Direct observation of the three-dimensional velocity distributions of Cl(2 P 3/2,1/2) atoms in the photodissociation of selected chlorides. Doklady Physical Chemistry, 2006, 407, 72-76.	0.2	3
67	Ultra-sensitive detection of nitric oxide isotopologues. Physica Scripta, 2009, 80, 048122.	1.2	3
68	Spectral line parameters in the (4â†0) overtone band and the dipole moment function of HI. Journal of Molecular Spectroscopy, 2009, 256, 75-79.	0.4	3
69	Nitrogen-induced broadening and shift coefficients of rotationâ€“vibrational lines in the fundamental and first overtone bands of HCl and HBr. Journal of Molecular Spectroscopy, 2012, 282, 9-13.	0.4	3
70	Double-arm three-dimensional ion imaging apparatus for the study of ion pair channels in resonance enhanced multiphoton ionization. Review of Scientific Instruments, 2016, 87, 023107.	0.6	3
71	Study of highly excited ro-vibrational states of S18O2 from â€œhotâ€•transitions: The bands Î½1+Î½2+Î½3â^'Î½2, 2Î½1+Î½2â^'Î½2, and 2Î½2+Î½3â^'Î½2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 196, 159-164.	1.1	3
72	Microwave and FIR spectroscopy of dimethylsulfide in the ground, first and second excited torsional states. Journal of Molecular Structure, 2020, 1200, 127114.	1.8	3

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73	Comprehensive roâ€“vibrational analysis of diâ€“deuterated hydrogen sulfide in the region of the Î½2, 2Î½2 and 2Î½2âˆ’Î½2 bands: The D232S, D234S, and D233S isotopologues. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 252, 107106.	1.1	3
74	Simultaneous imaging of both product ions: exploring gateway states for HCl as a benchmark molecule. Physical Chemistry Chemical Physics, 2014, 16, 19741-19746.	1.3	2
75	Line strength analysis of the second overtone <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:mrow><mml:mn>3</mml:mn><mml:msub><mml:mi>Î½</mml:mi><mml:mn>2</mml:mn></mml:msub></mml: band of D<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si71.svg"><mml:msubsup><mml:mrow /><mml:mn>2</mml:mn><mml:mn>32</mml:mn></mml:msubsup></mml:math>S. Journal of Quantitative	1.1	2
76	Extreme high rotational excitation of ClO. PhysChemComm, 2001, 4, 102.	0.8	1
77	Secondary Electron and Negative-Ion Emission from Metal Surface under the Bombardment by Positive Ions (H+, Cl+, HCl+). Bulletin of the Lebedev Physics Institute, 2018, 45, 303-307.	0.1	1
78	Ultraviolet photodissociation dynamics of PCl3 at 235 nm: three-dimensional ion imaging and theoretical analysis. Physical Chemistry Chemical Physics, 2021, 23, 13583-13593.	1.3	1
79	Line strengths, widths and shifts analysis of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.svg"><mml:mrow><mml:mn>2</mml:mn><mml:msub><mml:mi>Î½</mml:mi><mml:mn>2</mml:mn></mml:msub><m <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mi>Î½</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo	1.1	1
80	Expanded roâ€“vibrational analysis of the dyad region of CD<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:mat /><mml:mn>4</mml:mn></mml:msub></mml:math>: Line positions and energy levels. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 288, 108275.	1.1	1
81	Photodissociation Dynamics of SOCl2.. ChemInform, 2005, 36, no.	0.1	0
82	Is spin-orbit state branching in the photodissociation of CCl4 isotope specific?. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 187, 255-257.	2.0	0
83	Three-dimensional ion imaging study of PCl3 photodissociation at 235â€…nm. AIP Conference Proceedings, 2020, , .	0.3	0
84	Self-broadening and Shifting Coefficients for the Spectral Lines in the First Overtone Band of HBr. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2022, 130, 1-9.	0.2	0
85	Highâ€“resolution spectroscopy of C2H3D: Line positions and energy structure of the strongly interacting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si509.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>10</mml:mn></mml:m Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 279, 121401.	2.0	0