Agust Kvaran

List of Publications by Year
in descending order

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97 papers	1,579 citations	257450 24 h-index	377865 34 g-index
98 all docs	98 docs citations	98 times ranked	462 citing authors

#	Article	IF	Citations
1	High energy state interactions, energetics and multiphoto-fragmentation processes of HI. Physical Chemistry Chemical Physics, 2022, 24, 6676-6689.	2.8	0
2	Photo- and autoionization processes of superexcited iodine atoms in MPI of CH3I and HI. Chemical Physics, 2021, 541, 111016.	1.9	2
3	Resolving the F₂ bond energy discrepancy using coincidence ion pair production (cipp) spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 8292-8299.	2.8	9
4	Coordination Properties of Non-Rigid Phosphinoyldithioformate Complexes of the [Mo2O2(Âµ-S)2]2+ Cation in Catalytic Sulfur Transfer Reactions with Thiiranes. Catalysts, 2021, 11, 593.	3.5	2
5	Addition to and revision of the HI Rydberg states energy region. Journal of Molecular Spectroscopy, 2020, 372, 111329.	1.2	1
6	Formation of highly excited iodine atoms from multiphoton excitation of CH₃I. Physical Chemistry Chemical Physics, 2020, 22, 4984-4992.	2.8	7
7	Two-color studies of CH₃Br excitation dynamics with MPI and slice imaging. Physical Chemistry Chemical Physics, 2019, 21, 10391-10401.	2.8	8
8	High energy Rydberg and ion-pair states, state mixing and excitation dynamics of HI. Physical Chemistry Chemical Physics, 2019, 21, 23154-23161.	2.8	3
9	Cyanocyclohexane: Axial-to-equatorial â€œseesawâ€•parity in gas and condensed phases. Journal of Molecular Structure, 2018, 1168, 127-134.	3.6	9
10	Multiphoton Rydberg and valence dynamics of CH₃Br probed by mass spectrometry and slice imaging. Physical Chemistry Chemical Physics, 2018, 20, 17423-17433.	2.8	6
11	Non-rigid coordination behavior of the ambidentate phosphinoyldithioformate ligands, [S 2 CP(O)R 2] -, (RÂ= Ph, CH 2 Ph) in organometallic Lead(IV) and Mercury(II) compounds. Journal of Organometallic Chemistry, 2018, 854, 38-48.	1.8	3
12	Excitation dynamics involving homogeneous multistate interactions: one and two color VMI and REMPI of HBr. Physical Chemistry Chemical Physics, 2017, 19, 11354-11365.	2.8	7
13	High energy Rydberg and valence states and state interactions of DCl: New observations by mass resolved REMPI. Journal of Molecular Spectroscopy, 2017, 341, 1-9.	1.2	2
14	Conformational properties of 1-cyano-1-silacyclohexane, C5H10SiHCN: Gas electron diffraction, low-temperature NMR and quantum chemical calculations. Journal of Molecular Structure, 2017, 1132, 149-156.	3.6	11
15	Effect of a triplet to singlet state interaction on photofragmentation dynamics: highly excited states of HBr probed by VMI and REMPI as a case study. Physical Chemistry Chemical Physics, 2016, 18, 26291-26299.	2.8	8
16	Dissociative Photoionization of 1-Halogenated Silacyclohexanes: Silicon Traps the Halogen. Journal of Physical Chemistry A, 2016, 120, 9188-9197.	2.5	6
17	Long term puzzles of the CH and CD energetics and related phenomena revisited; solutions sought through REMPI-photofragmentations of bromomethanes. Physical Chemistry Chemical Physics, 2016, 18, 1797-1806.	2.8	2
18	State interactions and illumination of hidden states through perturbations and observations of new states: High energy resonance enhanced multiphoton ionization of HI. Journal of Chemical Physics, 2015, 142, 244312.	3.0	10

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19	Rydberg and valence state excitation dynamics: a velocity map imaging study involving the Eâ€“V state interaction in HBr. Physical Chemistry Chemical Physics, 2015, 17, 10468-10477.	2.8	11
20	Revealing photofragmentation dynamics through interactions between Rydberg states: REMPI of HI as a case study. Physical Chemistry Chemical Physics, 2015, 17, 32517-32527.	2.8	6
21	Conformational properties of 1-tert-butyl-1-silacyclohexane, C5H10SiH(t-Bu): gas-phase electron diffraction, temperature-dependent Raman spectroscopy, and quantum chemical calculations. Structural Chemistry, 2015, 26, 445-453.	2.0	12
22	Photofragmentation, state interaction, and energetics of Rydberg and ion-pair states: Resonance enhanced multiphoton ionization of HI. Journal of Chemical Physics, 2014, 140, 244304.	3.0	14
23	Resonance-Enhanced Multiphoton Ionization of CH₂Br₂: Rydberg States, Photofragmentation, and CH Spectra. Journal of Physical Chemistry A, 2014, 118, 1826-1831.	2.5	3
24	Photofragmentations, state interactions, and energetics of Rydberg and ion-pair states: Resonance enhanced multiphoton ionization via E and V (B) states of HCl and HBr. Journal of Chemical Physics, 2013, 138, 044308.	3.0	21
25	New REMPI observations and analyses for Rydberg and ion-pair states of HI. Journal of Molecular Spectroscopy, 2013, 290, 5-12.	1.2	12
26	Conformational properties of 1-methyl-1-germacyclohexane: low-temperature NMR and quantum chemical calculations. Structural Chemistry, 2013, 24, 769-774.	2.0	8
27	Conformational Properties of 1-Halogenated-1-Silacyclohexanes, C₅H₁₀SiHX (X) Tj ETQq1 1 0.784314 rgBT /(Spectroscopy, and Quantum-Chemical Calculations. Organometallics, 2013, 32, 6996-7005.	2.3	27
28	Resonance enhanced multiphoton ionization spectra of HCl¼šanalysis of F1Î”2 spectral perturbation. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 163302.	0.5	4
29	Rydberg and ion-pair states of HBr: New REMPI observations and analysis. Journal of Molecular Spectroscopy, 2012, 282, 20-26.	1.2	15
30	Photofragmentations, state interactions, and energetics of Rydberg and ion-pair states: Two-dimensional resonance enhanced multiphoton ionization of HBr via singlet-, triplet-, Î© = 0 and 2 states. Journal of Chemical Physics, 2012, 136, 214315.	3.0	17
31	Thermochemistry of Halomethanes CF_nBr_{4â€“n} (n = 0â€“3) Based on iPEPICO Experiments and Quantum Chemical Computations. Journal of Physical Chemistry A, 2011, 115, 13443-13451.	2.5	27
32	Two-dimensional REMPI of CF3Br: Rydberg states and photofragmentation channels. Chemical Physics Letters, 2011, 516, 12-16.	2.6	6
33	Two-dimensional resonance enhanced multiphoton ionization of HiCl; i = 35, 37: State interactions, photofragmentations and energetics of high energy Rydberg states. Journal of Chemical Physics, 2011, 134, 164302.	3.0	20
34	Conformational Properties of 1-Silyl-1-Silacyclohexane, C₅H₁₀SiHSiH₃: Gas Electron Diffraction, Low-Temperature NMR, Temperature-Dependent Raman Spectroscopy, and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2010, 114, 2127-2135.	2.5	39
35	Conformational properties of 1-fluoro-1-methyl-silacyclohexane and 1-methyl-1-trifluoromethyl-1-silacyclohexane: Gas electron diffraction, low-temperature NMR, temperature-dependent Raman spectroscopy, and quantum chemical calculations. Journal of Molecular Structure, 2010, 978, 209-219.	3.6	34
36	Two-Dimensional (2+n) REMPI of CH₃Br: Photodissociation Channels via Rydberg States. Journal of Physical Chemistry A, 2010, 114, 9991-9998.	2.5	11

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37	Two-dimensional (2+n) resonance enhanced multiphoton ionization of HCl: State interactions and photorupture channels via low-energy triplet Rydberg states. Journal of Chemical Physics, 2009, 131, 044324.	3.0	25
38	Unexpected Conformational Properties of 1-Trifluormethyl-1-Silacyclohexane, C5H10SiHCF3: Gas Electron Diffraction, Low Temperature NMR, and Quantum Chemical Calculations. Chemistry - A European Journal, 2009, 15, 8929-8929.	3.3	12
39	Two-dimensional (2+n) REMPI of HCl: Observation and characterisation of a new Rydberg state. Journal of Molecular Spectroscopy, 2009, 255, 1-5.	1.2	20
40	(2+n) REMPI of acetylene: Gerade Rydberg states and photorupture channels. Chemical Physics Letters, 2008, 458, 58-63.	2.6	8
41	Two-dimensional (2+n) resonance enhanced multiphoton ionization of HCl: Photorupture channels via the FÎ”21 Rydberg state and ab initio spectra. Journal of Chemical Physics, 2008, 129, 164313.	3.0	31
42	Conformational Properties of 1-Fluoro-1-silacyclohexane, C₅H₁₀SiHF: Gas Electron Diffraction, Low-Temperature NMR, Temperature-Dependent Raman Spectroscopy, and Quantum Chemical Calculations. Organometallics, 2007, 26, 6544-6550.	2.3	54
43	Unexpected Conformational Properties of 1-Trifluoromethyl-1-Silacyclohexane, C5H10SiHCF3: Gas Electron Diffraction, Low-Temperature NMR Spectropic Studies, and Quantum Chemical Calculations. Chemistry - A European Journal, 2007, 13, 1776-1783.	3.3	51
44	REMPI Spectra of the Hydrogen Halides. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2007, 23, 1543-1552.	4.9	0
45	Structures and Energetics of Axial and Equatorial 1-Methyl-1-silacyclohexane. Organometallics, 2006, 25, 3813-3816.	2.3	35
46	Comment on â€œRelative Energies, Stereoelectronic Interactions, and Conformational Interconversion in Silacycloalkanesâ€• International Journal of Quantum Chemistry, 2006, 106, 1975-1978.	2.0	27
47	REMPI-TOF studies of the HF dimer. Journal of Molecular Structure, 2006, 790, 27-30.	3.6	10
48	Relative Energy and Structural Differences of Axial and Equatorial 1-Fluoro-1-silacyclohexane. Journal of Physical Chemistry A, 2006, 110, 9995-9999.	2.5	27
49	The rotational spectrum of silacyclohexane. Journal of Molecular Spectroscopy, 2005, 229, 188-192.	1.2	22
50	Three- and two-photon absorption in HCl and DCl: identification of Î©=3 states and state interaction analysis. Journal of Molecular Spectroscopy, 2004, 228, 143-151.	1.2	18
51	Three-photon absorption spectroscopy: the L(1Î¦3) and m(3Il1) states of HCl and DCl. Molecular Physics, 2002, 100, 3513-3519.	1.7	24
52	Conformations of Silicon-Containing Rings. 5.â€‚â€¡Conformational Properties of 1-Methyl-1-silacyclohexane:Â Gas Electron Diffraction, Low-Temperature NMR, and Quantum Chemical Calculations. Journal of Organic Chemistry, 2002, 67, 3827-3831.	3.2	72
53	Three-photon absorption spectroscopy: (3+1)REMPI of HCl (I1Î”2â€“X1Î£+). Journal of Molecular Structure, 2001, 563-564, 235-239.	3.6	13
54	1H NMR and UVâ€“vis spectroscopy of fluorine and chlorine substituted stilbenes: conformational studies. Journal of Molecular Structure, 2001, 563-564, 513-516.	3.6	3

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55	Photochemical conversion of 2,6-dihalo substituted methyl Î±-phenylcinnamates. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 144, 175-177.	3.9	4
56	Three- and two-photon absorption spectroscopy: REMPI of HCl and HBr. Canadian Journal of Physics, 2001, 79, 197-210.	1.1	2
57	1 H NMR and UVâ€“Vis spectroscopy of chlorine substituted stilbenes: conformational studies. Journal of Molecular Structure, 2000, 553, 79-90.	3.6	21
58	Resonance enhanced multiphoton ionization of the hydrogen halides: Rotational structure and anomalies in Rydberg and ion-pair states of HCl and HBr. Journal of Chemical Physics, 2000, 112, 10811-10820.	3.0	41
59	What to see and what not to see in three-photon absorption: (3+1) REMPI of HBr. Journal of Chemical Physics, 2000, 113, 1755-1761.	3.0	22
60	Spectroscopy of Flames: Luminescence Spectra of Reactive Intermediates. Journal of Chemical Education, 2000, 77, 1345.	2.3	3
61	1H NMR Investigation of Si-alkylsubstituted 1,3,5-Trisilacyclohexanes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1998, 624, 65-73.	1.2	9
62	Photochemistry of substituted methyl-Î±-arylcinnamates: ortho- and para-substitution. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 115, 57-61.	3.9	4
63	(2+1) REMPI spectra of Î©=0 states of the hydrogen halides: Spectroscopy, perturbations and excitation mechanisms. Journal of Chemical Physics, 1998, 109, 5856-5867.	3.0	45
64	REMPI Spectra of Cl2: Vibrational and Rotational Analysis of the 21ÎgRydberg States of35Cl2,35Cl37Cl, and37Cl2. Journal of Molecular Spectroscopy, 1996, 179, 334-341.	1.2	6
65	Rotational perturbations in the (2 + 1) REMPI spectrum of the Rydberg state. Chemical Physics, 1996, 204, 65-75.	1.9	6
66	On the origin of the dip in the KrF laser gain spectrum. Journal of Chemical Physics, 1996, 105, 1815-1824.	3.0	6
67	REMPI Spectra of IBr: Vibrational and Rotational Analysis of the b[2.PI.1/2]c6s;1 Rydberg States of I79Br and I81Br. The Journal of Physical Chemistry, 1995, 99, 4451-4457.	2.9	12
68	REMPI spectra of I2. The [32]c5d; 1g Rydberg state and interactions with ion pair states. Chemical Physics Letters, 1994, 222, 436-442.	2.6	10
69	Threshold photoelectron spectroscopy of CF4 up to 60.5 eV. Journal of Electron Spectroscopy and Related Phenomena, 1994, 70, 29-37.	1.7	31
70	Ion-pair (X+ + Yâ^') formation from photodissociation of the interhalogen molecules BrCl, ICl and IBr. Organic Mass Spectrometry, 1993, 28, 327-334.	1.3	13
71	Laser photoisomerization of methyl Î±-arylcinnamates; effect of chloro substitution. Journal of Photochemistry and Photobiology A: Chemistry, 1993, 73, 179-185.	3.9	6
72	Rotationally resolved (2+1) REMPI spectra of gerade Rydberg state of molecular iodine: The (vâ€²=0,vâ€³=1) band of the Dalby system. Journal of Molecular Structure, 1993, 293, 217-221.	3.6	13

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73	Ionâ€pair formation in the photodissociation of HCl and DCl. Journal of Chemical Physics, 1993, 99, 4986-4992.	3.0	42
74	Analyses of the 290â€“400 nm oscillatory continua due to transitions from the E(O+) ion pair state of BrCl. Molecular Physics, 1992, 75, 197-207.	1.7	5
75	Mechanism of the two-photon laser assisted reaction of Xe and Cl2 to form XeCl. Journal of Molecular Structure, 1992, 267, 13-19.	3.6	1
76	Vibrationally resolved excitation functions for direct ion-pair (I+ + Iâ¯) formation from photodissociation of I2. Chemical Physics Letters, 1991, 179, 263-267.	2.6	25
77	Mechanism of vibrational relaxation and intersystem crossing within excited ion-pair states of I2. Journal of Chemical Sciences, 1991, 103, 417-428.	1.5	10
78	Ion-pair (Br+ + Brâ¯) formation from photodissociation of Br2 near the first ionisation limit. Chemical Physics Letters, 1990, 165, 283-288.	2.6	25
79	Spectroscopic characterization of the lowest singlet states of CdNe, CdAr, and CdKr. Journal of Chemical Physics, 1989, 90, 2915-2926.	3.0	77
80	Vibrational relaxation of KrF* and XeCl* by rare gases. Applied Physics B, Photophysics and Laser Chemistry, 1988, 46, 95-102.	1.5	32
81	Spectroscopic characterization of theX(10+) andA(30+) states of CdNe, CdAr, CdKr, and CdXe. Journal of Chemical Physics, 1988, 89, 6069-6080.	3.0	75
82	The dynamics of electronically excited states in the rare-gasâ€“halogen systems. Faraday Discussions of the Chemical Society, 1987, 84, 221-238.	2.2	26
83	Chemiluminescent reactions of rare gas atoms, Rg(ns, 3P2, 3P1, 1P1) with N2O, SCO and SeCO: Spectroscopy and energy disposal in rare gas oxide, sulphide and selenide excimers. Chemical Physics Letters, 1987, 137, 209-218.	2.6	17
84	Energy and angular momentum disposal in chemiluminescent reactions of Xe (3PJ). Journal De Chimie Physique Et De Physico-Chimie Biologique, 1987, 84, 371-379.	0.2	4
85	Competitive channels in the interaction of Xe(3 P J) with Cl2, Br2 and I2. Atom transfer, excitation transfer, energy disposal and product rotational alignment. Journal of the Chemical Society, Faraday Transactions 2, 1986, 82, 1281.	1.1	16
86	Reactions of Xe(3 P 2) and Xe(3 P 1) with HCl, HBr and HI; energy utilization, energy disposal, product rotational polarization and reaction dynamics. Molecular Physics, 1986, 57, 255-273.	1.7	26
87	Vibrational relaxation of xenon bromide (XeBr)(B) by argon. The Journal of Physical Chemistry, 1984, 88, 6383-6388.	2.9	8
88	Vibrational population distributions from rare gas halide spectra. Molecular Physics, 1983, 50, 981-992.	1.7	10
89	Bromine emission spectra of discharged mixtures of argon + bromine-containing compounds. Journal of the Chemical Society, Faraday Transactions 2, 1982, 78, 2131.	1.1	2
90	Analysis of the 350â€“400 nm oscillatory continuum from I2 (D 1Î£+u). Chemical Physics Letters, 1982, 92, 322-326.	2.6	22

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91	Chemiluminescence of argon bromide. II. Potential curves of ArBr and population distributions in the B (1/2) and C (3/2) electronic states. Journal of Chemical Physics, 1980, 72, 442-452.	3.0	10
92	Chemiluminescence of argon bromide. I. The emission spectrum of ArBr. Journal of Chemical Physics, 1980, 72, 434-441.	3.0	30
93	Emission spectra of the noble-gas halides: the B12î—¸A12 system. Chemical Physics Letters, 1978, 59, 51-56.	2.6	24
94	The Conformational Preference of the Methyl Group in 1-Methyl-1-Silacyclohexane. , 0, , 135-138.		1
95	The Conformational Preference of the Methyl Group in 1-Methyl-1-Silacyclohexane. , 0, , 135-138.		0
96	Melatonin photoreactivity: phosphorescence formation and quenching processes. Chemical Papers, 0, , .	2.2	0
97	Coincidence ion pair production (cipp) spectroscopy of diiodine. Physical Chemistry Chemical Physics, 0, , .	2.8	0