Edward Grant

List of Publications by Citations

Source: https://exaly.com/author-pdf/126494/edward-grant-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

208 65 5,958 42 h-index g-index citations papers 6,283 247 4.9 5.34 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
208	Fractional quantization of molecular pseudorotation in Na3. <i>Physical Review Letters</i> , 1986 , 56, 2598-26	01 _{7.4}	277
207	A nomenclature for Edoublet levels in rotating linear molecules. <i>Journal of Chemical Physics</i> , 1988 , 89, 1749-1753	3.9	208
206	Is Multiphoton Dissociation of Molecules a Statistical Thermal Process?. <i>Physical Review Letters</i> , 1978 , 40, 115-118	7.4	169
205	Simple bond rupture reactions in multiphoton dissociation of molecules. <i>Journal of Chemical Physics</i> , 1979 , 70, 912	3.9	158
204	Ultrafast time-resolved soft x-ray photoelectron spectroscopy of dissociating Br2. <i>Physical Review Letters</i> , 2001 , 87, 193002	7.4	141
203	Molecular Beam Study of Multiphoton Dissociation of SF6. <i>Physical Review Letters</i> , 1977 , 38, 17-20	7.4	140
202	Detection of melamine in milk using molecularly imprinted polymers-surface enhanced Raman spectroscopy. <i>Food Chemistry</i> , 2015 , 176, 123-9	8.5	132
201	Topological phase in molecular bound states: Application to the E?e system. <i>Journal of Chemical Physics</i> , 1987 , 87, 2954-2964	3.9	120
200	Molecular Dynamics Beyond the Adiabatic Approximation: New Experiments and Theory. <i>Annual Review of Physical Chemistry</i> , 1985 , 36, 277-320	15.7	101
199	On the Shape of C6H6+. <i>Science</i> , 1996 , 271, 1698-1702	33.3	97
198	Multiphoton dissociation of SF6 by a molecular beam method. <i>Journal of Chemical Physics</i> , 1980 , 72, 49	18 5.4 99	95 88
197	Rotationally resolved photoionization of H2O. <i>Journal of Chemical Physics</i> , 1991 , 95, 7033-7040	3.9	86
196	Determination of Sudan I in paprika powder by molecularly imprinted polymers-thin layer chromatography-surface enhanced Raman spectroscopic biosensor. <i>Talanta</i> , 2015 , 143, 344-352	6.2	85
195	Raman spectroscopy for tablet coating thickness quantification and coating characterization in the presence of strong fluorescent interference. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 41, 811-9	3.5	84
194	A new instrument adapted to in situ Raman analysis of objects of art. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 379, 137-42	4.4	80
193	Raman spectroscopic measurement of tablet-to-tablet coating variability. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 38, 270-4	3.5	80
192	Multiphoton dissociation products from halogenated hydrocarbons. <i>Journal of Chemical Physics</i> , 1978 , 68, 1306-1307	3.9	77

191	The extent of energy randomization in the infrared multiphoton dissociation of SF6. <i>Chemical Physics Letters</i> , 1977 , 52, 595-599	2.5	76	
190	Evolution from a molecular Rydberg gas to an ultracold plasma in a seeded supersonic expansion of NO. <i>Physical Review Letters</i> , 2008 , 101, 205005	7.4	75	
189	Determination of £ocopherol in vegetable oils using a molecularly imprinted polymers-surface-enhanced Raman spectroscopic biosensor. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 10467-75	5.7	69	
188	Higher excited states of benzene: Polarized ultraviolet two-photon absorption spectroscopy. Journal of Chemical Physics, 1985 , 82, 1115-1134	3.9	68	
187	Photodissociation dynamics of Fe(CO)5: Excited state lifetimes and energy disposal. <i>Journal of Chemical Physics</i> , 1983 , 79, 4899-4911	3.9	67	
186	[believe I will go out of this class actually knowing something[]Cooperative learning activities in physical chemistry. <i>Journal of Research in Science Teaching</i> , 1997 , 34, 819-835	3.4	62	
185	Photoelectron spectroscopy and electronic structure of clusters of the group V elements. II. Tetramers: Strong Jahn eller coupling in the tetrahedral 2E ground states of P+4, As+4, and Sb+4. <i>Journal of Chemical Physics</i> , 1990 , 93, 6318-6326	3.9	57	
184	Determination of thiabendazole in orange juice using an MISPE-SERS chemosensor. <i>Food Chemistry</i> , 2018 , 239, 816-822	8.5	56	
183	Determination of histamine in canned tuna by molecularly imprinted polymers-surface enhanced Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2015 , 901, 68-75	6.6	56	
182	pH Matters When Reducing CO2 in an Electrochemical Flow Cell. ACS Energy Letters, 2020, 5, 3101-310	07 20.1	56	
181	High-resolution threshold photoionization of N2O. <i>Journal of Chemical Physics</i> , 1991 , 95, 746-753	3.9	53	
180	Ultraviolet two-photon spectroscopy of benzene: A new gerade Rydberg series and evidence for the 1 1E2g valence state. <i>Journal of Chemical Physics</i> , 1983 , 79, 2626-2640	3.9	53	
179	The dynamic Jahn Teller effect in sym-triazine: Nonadiabatic wave functions and hindered fluxionality. <i>Journal of Chemical Physics</i> , 1986 , 84, 1270-1284	3.9	50	
178	Higher excited states of benzene: Symmetry assignments of six gerade Rydberg series by four-photon absorption spectroscopy. <i>Journal of Chemical Physics</i> , 1985 , 82, 1135-1146	3.9	49	
177	A precise determination of the first ionization potential of benzene. <i>Chemical Physics Letters</i> , 1984 , 108, 420-424	2.5	48	
176	A reaction path for halogen elimination from CX2Y2, and its dynamical implications. <i>The Journal of Physical Chemistry</i> , 1981 , 85, 4046-4051		48	
175	Detection and quantification of chloramphenicol in milk and honey using molecularly imprinted			
75	polymers: Canadian penny-based SERS nano-biosensor. <i>Journal of Food Science</i> , 2014 , 79, N2542-9	3.4	47	

173	Ion rotational distributions for near-threshold photoionization of H2O. <i>Journal of Chemical Physics</i> , 1992 , 96, 7848-7851	3.9	46
172	Highly efficient production of neutral carbon atoms in the ultraviolet multiphoton fragmentation of aromatic molecules. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 1484-1487		46
171	Rovibrational structure of NO+2 and state-to-state dynamics in the high-resolution threshold photoionization of NO2. <i>Journal of Chemical Physics</i> , 1994 , 101, 7199-7210	3.9	45
170	Specific thin-layer chromatography assay of limonin, a citrus bitter principle. <i>Journal of Agricultural and Food Chemistry</i> , 1970 , 18, 250-252	5.7	44
169	Convenient fast pulsed molecular beam valve. <i>Review of Scientific Instruments</i> , 1981 , 52, 1469-1472	1.7	43
168	Adaptive wavelet transform suppresses background and noise for quantitative analysis by Raman spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 625-34	4.4	42
167	Energetics of molecular elimination in the infrared multiphoton dissociation of CF2Cl2, CF2Br2, CF2ClBr, and CFCl3. <i>Journal of Chemical Physics</i> , 1981 , 75, 148-158	3.9	42
166	Structured effects of Rydberg-Rydberg rotational coupling on intensities in the zero electron kinetic energy threshold photoionization spectrum of state-selected nitrogen dioxide. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 6875-6880		41
165	Multiphoton ionization of NO2: Spectroscopy and dynamics. <i>Journal of Chemical Physics</i> , 1981 , 75, 2643-	-3651	41
164	Dynamical effects in unimolecular decomposition: A classical trajectory study of the dissociation of C2H6 <i>Journal of Chemical Physics</i> , 1978 , 68, 628-636	3.9	40
163	Triple-resonance spectroscopy of the higher excited states of NO2 : Rovibronic interactions, autoionization, and l-uncoupling in the (100) manifold. <i>Journal of Chemical Physics</i> , 1990 , 93, 2308-2327	3.9	39
162	Direct determination of the adiabatic ionization potential of NO2 by multiresonant optical absorption. <i>Chemical Physics Letters</i> , 1988 , 144, 58-64	2.5	38
161	Dynamics of the two-photon photodissociation of NO2: A molecular beam multiphoton ionization study of NO photofragment internal energy distributions. <i>Journal of Chemical Physics</i> , 1982 , 77, 5994-60	oð:¥	38
160	Threshold-field-ionization photoelectron spectroscopy and delayed forced autoionization of HCl. <i>Physical Review A</i> , 1991 , 44, R5331-R5334	2.6	37
159	Photoelectron spectroscopy and electronic structure of clusters of the group V elements. III. Tetramers: The 2T2 and 2A1 excited states of P+4, As+4, and Sb+4. <i>Journal of Chemical Physics</i> , 1990 , 93, 6327-6333	3.9	37
158	Pulsed-laser photocatalytic isomerization and hydrogenation of olefins. <i>Journal of the American Chemical Society</i> , 1982 , 104, 4270-4272	16.4	37
157	Triple-resonance spectroscopy of the higher excited states of NO2. IV. Trends in the mode dependence of vibrational autoionization via asymmetric stretch versus symmetric stretch and bend. <i>Journal of Chemical Physics</i> , 1992 , 96, 4827-4840	3.9	34
156	On the assignment of JahnTeller effects in the ultraviolet absorption spectrum of Ag3. <i>Journal of Chemical Physics</i> , 1994 , 100, 6312-6317	3.9	33

155	Plastics disassembly versus bulk recycling: engineering design for end-of-life electronics resource recovery. <i>Environmental Science & Environmental &</i>	10.3	32	
154	The role of near-resonant intermediate states in the two-photon excitation of nitrogen dioxide: the distinct dynamics of two-photon photofragmentation. <i>The Journal of Physical Chemistry</i> , 1984 , 88, 1271	-1273	32	
153	Resonant multiphoton ionization detection of the NO2 fragment from infrared multiphoton dissociation of CH3NO2. <i>Chemical Physics Letters</i> , 1981 , 79, 15-18	2.5	32	
152	Hydrogen abstraction by fluorine atoms under conditions of thermal initiation: Hydrocarbons and fluorinated hydrocarbons. <i>International Journal of Chemical Kinetics</i> , 1975 , 7, 39-44	1.4	32	
151	On-line content uniformity determination of tablets using low-resolution Raman spectroscopy. <i>Applied Spectroscopy</i> , 2006 , 60, 672-81	3.1	31	
150	The role of near-resonant intermediate states in the two-photon excitation of nitrogen dioxide: origin bands in bent-to-linear transitions. <i>The Journal of Physical Chemistry</i> , 1984 , 88, 1273-1275		30	
149	The vibrational structure of the NO2 cation. <i>Chemical Physics Letters</i> , 1992 , 200, 495-501	2.5	29	
148	Intramolecular dynamics and multiresonant absorption spectroscopy. I. Reduced non-FranckCondon intensity in the high-power two-photon absorption spectrum of NO2. <i>Journal of Chemical Physics</i> , 1985 , 83, 5361-5368	3.9	29	
147	Hydrogen abstraction reactions by atomic fluorine. V. Time-independent nonthermal rate constants for the 18F+H2 and 18F+D2 reactions. <i>Journal of Chemical Physics</i> , 1976 , 64, 3450	3.9	29	
146	Threshold multiphoton dissociative behavior of CF2Cl2: Evidence for the molecular elimination of Cl2. <i>Journal of Chemical Physics</i> , 1979 , 71, 3537-3538	3.9	29	
145	Laser spectroscopy in a pulsed jet of AlH: Ionization-detected ultraviolet absorption spectra of the transitions C 1 H I 1 and b 3 I 1 . Journal of Chemical Physics, 1992, 97, 883-893	3.9	28	
144	Unimolecular decomposition of nitromethane in a molecular beam with resolution of fragment recoil velocities and internal states: Dynamical evidence for an exit channel barrier. <i>Journal of Chemical Physics</i> , 1983 , 79, 708-719	3.9	28	
143	Strong vibronic coupling in molecular Rydberg states. <i>Journal of Chemical Physics</i> , 1984 , 80, 5999-6005	3.9	28	
142	Hydrogen abstraction reactions by atomic fluorine. III. Temperature dependence of the intermolecular kinetic isotope effect for the thermal F+H2 reaction. <i>Journal of Chemical Physics</i> , 1975 , 63, 2970	3.9	28	
141	A characterization of vibrationally and electronically excited NO2+ by high-resolution threshold photoionization spectroscopy. <i>Journal of Chemical Physics</i> , 1999 , 111, 9568-9573	3.9	27	
140	Detection of nascent no in a methane/air flame by multiphoton ionization. <i>Chemical Physics Letters</i> , 1982 , 87, 141-144	2.5	27	
139	Double-resonance spectroscopy of the high Rydberg states of HCO. I. A precise determination of the adiabatic ionization potential. <i>Journal of Chemical Physics</i> , 1995 , 103, 10513-10519	3.9	26	
138	Fermi resonance and mode specificity in the vibrational autoionization of NO2. <i>Journal of Chemical Physics</i> , 1996 , 104, 42-47	3.9	26	

137	Triple-resonance spectroscopy of the higher excited states of NO2. II. Vibrational mode selectivity in the competition between predissociation and autoionization. <i>Journal of Chemical Physics</i> , 1990 , 93, 7731-7739	3.9	26
136	Assignment of the vibronic level structure of trimeric copper (Cu3) ground state. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 3298-3301		26
135	Two-photon photodissociation dynamics of state-selected NO2. <i>Journal of Chemical Physics</i> , 1987 , 87, 360-369	3.9	26
134	Spectroscopy of the 3p 2lRydberg state of HCO by resonance-enhanced multiphoton ionization. Journal of Chemical Physics, 1988, 88, 617-626	3.9	26
133	Very slow expansion of an ultracold plasma formed in a seeded supersonic molecular beam of NO. <i>Physical Review A</i> , 2009 , 79,	2.6	25
132	Double-resonance spectroscopy of the high Rydberg states of HCO. III. Multiple pathways in the vibrational autoionization of the bending overtone. <i>Journal of Chemical Physics</i> , 1998 , 108, 8429-8435	3.9	25
131	Semiclassical quantization of a classical analog for the Jahn Heller E system. <i>Journal of Chemical Physics</i> , 1986 , 85, 2089-2098	3.9	25
130	Vibronic structure of nonadiabatic and fluxional states: Two-photon absorption spectroscopy of jet isolated 3s 1E? sym-triazine. <i>Journal of Chemical Physics</i> , 1984 , 81, 691-697	3.9	25
129	RennerTeller coupling in the 3d Tu Rydberg state of acetylene. <i>Journal of Chemical Physics</i> , 1993 , 99, 5723-5727	3.9	24
128	Gas-phase organometallic catalysis: kinetics and mechanism of the hydrogenation of ethylene by Fe(CO)3(C2H4)2. <i>Journal of the American Chemical Society</i> , 1987 , 109, 7951-7960	16.4	24
127	Delocalized excitons and interaction effects in extremely dilute thermal ensembles. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2276-2282	3.6	23
126	Dissociation and the development of spatial correlation in a molecular ultracold plasma. <i>Physical Review Letters</i> , 2014 , 112, 075001	7.4	23
125	Zeke Spectroscopy: High-Resolution Spectroscopy with Photoelectrons. <i>Advances in Chemical Physics</i> , 2007 , 1-104		23
124	Viable plastics recycling from end-of-life electronics. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2006 , 29, 25-31		23
123	Triple-resonance spectroscopy of the higher excited states of NO2. III. ?☑?>1 autoionization and vibronic coupling. <i>Journal of Chemical Physics</i> , 1991 , 94, 5897-5906	3.9	22
122	Detecting influential observations by cluster analysis and Monte Carlo cross-validation. <i>Analyst, The</i> , 2010 , 135, 2841-7	5	21
121	On the formation and decay of a molecular ultracold plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 184015	1.3	21
120	SpinBrbit autoionization and intensities in the double-resonant delayed pulsed-field threshold photoionization of HCl. <i>Journal of Chemical Physics</i> , 1994 , 100, 8633-8640	3.9	21

119	Kinetics of the chromium hexacarbonyl and tungsten hexacarbonyl catalyzed water gas shift reaction: photoinitiated formate decomposition as a probe of the catalytic cycle. <i>Journal of the American Chemical Society</i> , 1985 , 107, 1595-1604	16.4	21	
118	Laser photocatalytic isomerization and hydrogenation of olefins in the gas phase. <i>Journal of Chemical Physics</i> , 1982 , 77, 3769-3770	3.9	21	
117	SpinBrbit and rotational autoionization in HCl and DCl. Journal of Chemical Physics, 1993, 99, 2287-2299	3.9	20	
116	Mass spectrometry and its use in tandem with laser spectroscopy. <i>Science</i> , 1990 , 250, 61-8	33.3	20	
115	Temperature dependence as a probe of intramolecular relaxation in the infrared multiphoton excitation of CF2Cl2. <i>Journal of Chemical Physics</i> , 1981 , 74, 384-396	3.9	20	
114	Fabrication of SERS-active substrates using silver nanofilm-coated porous anodic aluminum oxide for detection of antibiotics. <i>Journal of Food Science</i> , 2015 , 80, N834-40	3.4	19	
113	Jet-resolved vibronic structure in the higher excited states of N2O: Ultraviolet three-photon absorption spectroscopy from 80 000 to 90 000 cml. <i>Journal of Chemical Physics</i> , 1989 , 91, 3916-3925	3.9	19	
112	Optical selection in double-resonant two-photon photodissociation: near-threshold state-to-state fragmentation dynamics of nitrogen dioxide .fwdarw. nitric oxide(~X 2.Pl.1/2, v = 0, J, .LAMBDA.) + atomic oxygen (1D). <i>The Journal of Physical Chemistry</i> , 1985 , 89, 5855-5862		19	
111	Modification of xylan in alkaline treated bleached hardwood kraft pulps as classified by attenuated total-internal-reflection (ATR) FTIR spectroscopy. <i>Carbohydrate Polymers</i> , 2015 , 127, 418-26	10.3	18	
110	Photoselection and the Appearance of FranckCondon-Forbidden Thresholds in the ZEKE Spectrum of NO2. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 6717-6722	2.8	18	
109	Polarized absorption spectroscopy of Edoublet molecules: Transition moment vs electron density distribution. <i>Journal of Chemical Physics</i> , 1987 , 87, 5589-5597	3.9	18	
108	Gas-phase observation and carbon monoxide substitution of cis-Cr(CO)4 (C2H4)2 by time-resolved IR absorption spectrometry. <i>Journal of the American Chemical Society</i> , 1987 , 109, 1252-1253	16.4	18	
107	High rydberg states of jet-cooled toluene observed by ultraviolet two-photon absorption spectroscopy: Ultrafast radiationless decay and pseudo-Jahn-Teller effects. <i>Chemical Physics</i> , 1984 , 90, 155-165	2.3	18	
106	Molecular ion-electron recombination in an expanding ultracold neutral plasma of NO+. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 18872-9	3.6	17	
105	Anomalous Intensities in Zero-Kinetic-Energy Spectra. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 6127-6	51383	17	
104	Elementary Arrhenius Parameters in the CO-for-Ethylene Dissociative Substitution of Cr(CO)5(C2H4). <i>The Journal of Physical Chemistry</i> , 1994 , 98, 4622-4626		17	
103	The (2+1) multiphoton ionization spectrum of jet-cooled CS2 between 54 000 and 58 000 cma. Journal of Chemical Physics, 1994 , 100, 3514-3519	3.9	17	
102	Detection of photofragments by multiphoton ionization with direct resolution of angular and time-of-flight distributions. <i>Journal of Chemical Physics</i> , 1982 , 77, 4257-4259	3.9	17	

101	Double-resonance spectroscopy of the high Rydberg states of HCO. II. Mode specificity in the dynamics of vibrational autoionization via CO stretch versus bend. <i>Journal of Chemical Physics</i> , 1998 , 108, 1886-1892	3.9	16
100	BendBtretch Fermi Resonance in[formula]as Observed in the Two-Photon Absorption Spectroscopy of the 3p[formula]Rydberg State of NO2. <i>Journal of Molecular Spectroscopy</i> , 1996 , 175, 203-214	1.3	16
99	Gas-phase organometallic kinetics: substitution of carbon monoxide for ethylene in Fe(CO)3(C2H4)2. <i>Journal of the American Chemical Society</i> , 1987 , 109, 352-356	16.4	16
98	Multiphoton ionization of nitrogen dioxide: Four photon spectroscopy of the npū Rydberg series. Journal of Chemical Physics, 1983 , 78, 7124-7131	3.9	16
97	Relaxation kinetics in the homogeneous gas-phase photocatalytic hydrogenation of ethylene by Fe(CO)4(C2H4). <i>Journal of the American Chemical Society</i> , 1984 , 106, 4635-4636	16.4	16
96	Recombinative dissociation and the evolution of a molecular ultracold plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 175302	1.3	15
95	Photoselection and the structure of highly excited states: Rotationally resolved spinBrbit autoionization spectrum of HCl. <i>Journal of Chemical Physics</i> , 1991 , 94, 3429-3439	3.9	15
94	Gas-phase organometallic kinetics. 2. Dissociative substitution kinetics of Fe(CO)2(C2H4)3 by transient IR absorption spectrometry. <i>Journal of the American Chemical Society</i> , 1987 , 109, 1051-1055	16.4	15
93	Intramolecular dynamics and multiresonant absorption spectroscopy. II. Power broadening and superposition states in double resonant two-photon excitation. <i>Journal of Chemical Physics</i> , 1985 , 83, 5369-5379	3.9	15
92	Observation of multimode vibronic interference effects in 2E1g benzene. <i>Journal of Chemical Physics</i> , 1986 , 84, 654-656	3.9	15
91	Arrested relaxation in an isolated molecular ultracold plasma. <i>Physical Review A</i> , 2017 , 96,	2.6	14
90	The A1🛚 (2,0) transition in 11BH and 10BH observed by (1+2)-photon resonance-enhanced multiphoton ionization spectroscopy. <i>Chemical Physics Letters</i> , 2001 , 340, 45-54	2.5	14
89	Experimental Characterization of the Higher Vibrationally Excited States of HCO(+): Determination of omega(2), x(22), g(22), and B(030). <i>Journal of Molecular Spectroscopy</i> , 2000 , 199, 147-157	1.3	14
88	Energetics of a homogeneous gas-phase photocatalytic system: the hydrogenation of ethylene by Fe(CO)4(C2H4). <i>Journal of the American Chemical Society</i> , 1985 , 107, 3386-3387	16.4	14
87	Possible Many-Body Localization in a Long-Lived Finite-Temperature Ultracold Quasineutral Molecular Plasma. <i>Physical Review Letters</i> , 2018 , 120, 110601	7.4	13
86	A symbolic methodology to improve disassembly process design. <i>Environmental Science & Environmental Science & Technology</i> , 2003 , 37, 5417-23	10.3	13
85	High-resolution two-photon spectroscopy of the NO23pl20+ Rydberg state. <i>Chemical Physics Letters</i> , 1986 , 131, 51-55	2.5	13
84	Direct observation of nonlinear Jahn Teller effects in the 1 1A1g->3s 1Eg two-photon spectrum of cyclohexane. <i>Journal of Chemical Physics</i> , 1984 , 80, 1711-1728	3.9	13

(2001-2019)

83	Exploring the crossover between high-energy-density plasma and ultracold neutral plasma physics. <i>Physics of Plasmas</i> , 2019 , 26, 100501	2.1	12
82	Rovibrational characterization of X 2Sigma+ 11BH+ by the extrapolation of photoselected high Rydberg series in 11BH. <i>Journal of Chemical Physics</i> , 2006 , 124, 144312	3.9	12
81	Toward the comprehensive spectrochemical imaging of painted works of art: a new instrumental approach. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 813-818	2.3	12
80	Effects of intermediate dissociation in the two-photon threshold photoionization of methyl iodide. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 9582-9586		12
79	Enhanced isotope separation in CF2Cl2 by infrared multiphoton dissociation at elevated temperatures. <i>Journal of Chemical Physics</i> , 1981 , 74, 5679-5685	3.9	12
78	Evolution from Rydberg gas to ultracold plasma in a supersonic atomic beam of Xe. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 155301	1.3	11
77	Coupling of electron orbital motion with rotation in the high Rydberg states of BH. <i>Physical Review Letters</i> , 2004 , 92, 173005	7.4	11
76	Organometallic Stability and Structure: Elementary Rates of Unimolecular Decomposition in Chromium Olefin Carbonyls. <i>Journal of the American Chemical Society</i> , 1995 , 117, 12254-12261	16.4	11
75	Bend-stretch Fermi resonance in NO2+ observed by delayed pulsed-field ionization zero-electron kinetic energy photoelectron spectroscopy. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996 , 159, 37-48		11
74	Multiresonant spectroscopy and dynamics of molecular extravalent states: State-resolved intramolecular relaxation of NO2 above 9 eV. <i>Chemical Physics</i> , 1989 , 129, 73-81	2.3	11
73	Two photon resonant multiphoton ionization spectroscopy in the ultraviolet: A new Rydberg system in Br2. <i>Journal of Chemical Physics</i> , 1981 , 75, 49-51	3.9	11
72	A 1k- le resonance-enhanced multiphoton ionization of jet-cooled CO. <i>Chemical Physics Letters</i> , 1982 , 91, 271-272	2.5	11
71	Dynamics of colliding ultracold plasmas. <i>Physical Review A</i> , 2015 , 91,	2.6	10
70	Template-oriented genetic algorithm feature selection of analyte wavelets in the Raman spectrum of a complex mixture. <i>Analytical Chemistry</i> , 2014 , 86, 10591-9	7.8	10
69	Dissociative recombination slows the expansion of a molecular ultracold plasma. <i>Physical Review A</i> , 2012 , 86,	2.6	10
68	Classical scaling and the correspondence between the coupled rate equation and molecular dynamics models for the evolution of ultracold neutral plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics,</i> 2012 , 45, 025701	1.3	10
67	Mode-dependent vibrational autoionization of NO2. Journal of Chemical Physics, 2003, 119, 10146-101	573.9	10
66	An experimental measure of anharmonicity in the bending of DCO+. <i>Journal of Chemical Physics</i> , 2001 , 115, 878-884	3.9	10

65	Double-resonance spectroscopy of the high Rydberg states of HCO. V. Rovibronic interactions and l-uncoupling in the (010) manifold. <i>Journal of Chemical Physics</i> , 2000 , 113, 5372	3.9	10
64	Double-resonance spectroscopy of the high Rydberg states of HCO. IV. Vibrational autoionization dynamics as a function of bending amplitude. <i>Journal of Chemical Physics</i> , 2000 , 112, 1701-1706	3.9	10
63	New Devices for the Production of Intense Pulsed Jets of CF2: Laser Spectroscopic Characterization. <i>Materials Research Society Symposia Proceedings</i> , 1984 , 38, 23		10
62	StateBoBtate dynamics in the high Rydberg states of polyatomic molecules. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997 , 355, 1569-1583	3	9
61	State-Selective Production of Vibrationally Excited NO2+ by Double-Resonant Photoionization <i>Journal of Physical Chemistry A</i> , 2004 , 108, 9645-9651	2.8	9
60	On the evolution of the phase-space distributions of a non-spherical molecular ultracold plasma in a supersonic beam. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 193001	1.3	9
59	Many-body physics with ultracold plasmas: quenched randomness and localization. <i>New Journal of Physics</i> , 2019 , 21, 043033	2.9	8
58	Rapid Determination of Metabolites in Bio-fluid Samples by Raman Spectroscopy and Optimum Combinations of Chemometric Methods. <i>Chinese Journal of Chemistry</i> , 2011 , 29, 2525-2532	4.9	8
57	High-Resolution Non-Resonant Two-Photon Threshold Photoionization of Propyne. <i>Laser Chemistry</i> , 1996 , 16, 151-156		8
56	Structure and dynamics of 3sEltyclopropane: A very fluxional multimode Jahn Teller system. <i>Journal of Chemical Physics</i> , 1988 , 89, 4012-4022	3.9	8
55	Semiclassical eigenvalues for a non-adiabatic system. <i>Chemical Physics Letters</i> , 1985 , 120, 106-112	2.5	8
54	Dynamical effects of mode specific excitation in unimolecular decomposition: A trajectory study of C2H6. <i>Chemical Physics Letters</i> , 1978 , 56, 170-174	2.5	8
53	Role of PTFE paste fibrillation on Poisson's ratio. <i>Polymer Testing</i> , 2017 , 61, 65-73	4.5	8
52	Proof of concept for an optogalvanic gas sensor for NO based on Rydberg excitations. <i>Applied Physics Letters</i> , 2018 , 113, 011113	3.4	7
51	Laser-assisted (1+1?)-photon ionization-detected absorption spectrum of the 3pl2l3tate of HCO and DCO. <i>Journal of Chemical Physics</i> , 2002 , 116, 8384	3.9	7
50	Isotope effect for the thermal F + H2 reaction: An Arrhenius kinetics experiment based upon nuclear recoil techniques. <i>Chemical Physics Letters</i> , 1974 , 27, 484-489	2.5	7
49	Multivariate classification of pulp NIR spectra for end-product properties using discrete wavelet transform with orthogonal signal correction. <i>Analytical Methods</i> , 2014 , 6, 8906-8914	3.2	6
48	Plastic separation planning for end-of-life electronics. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2006 , 29, 110-118		6

(2002-2001)

47	Double-resonant photoionization efficiency spectroscopy: A precise determination of the adiabatic ionization potential of DCO. <i>Journal of Chemical Physics</i> , 2001 , 114, 5224-5232	3.9	6
46	Gas-phase organometallic kinetics. 3. The observation and carbon monoxide substitution kinetics of cis-bis(ethene)tetracarbonylchromium by time-resolved infrared absorption spectrometry. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 1458-1464		6
45	Pulsed-laser-initiated photocatalysis in the liquid phase. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1984 , 23, 33-40		6
44	Hydrogen abstraction reactions by atomic fluorine. IV. Temperature dependence of the intermolecular kinetic isotope effect for the nonthermal 18F+H2 reaction. <i>Journal of Chemical Physics</i> , 1976 , 64, 417-426	3.9	6
43	Quantum state control of ultracold plasma fission. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 064009	1.3	6
42	Dissipative dynamics of atomic and molecular Rydberg gases: Avalanche to ultracold plasma states of strong coupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 074003	1.3	5
41	Isolated core excitation of B11H: Photoabsorption in competition with Rydberg predissociation. <i>Physical Review A</i> , 2007 , 75,	2.6	5
40	Mode dependent vibrational autoionization of Rydberg states of NO2. II. Comparing the symmetric stretching and bending vibrations. <i>Journal of Chemical Physics</i> , 2004 , 120, 2667-76	3.9	5
39	Kr (n=5🛮0,s,d,g) electronic wave packets: Electron time-of-flight resolution and the ac-Stark shift during wave-packet preparation. <i>Physical Review A</i> , 2005 , 71,	2.6	5
38	Quantization of a classical analog for the E?e JahnTeller system at intermediate couplings. <i>Journal of Chemical Physics</i> , 1989 , 90, 2357-2362	3.9	5
37	Adaptive multiscale regression for reliable Raman quantitative analysis. <i>Analyst, The</i> , 2012 , 137, 237-44	5	4
36	Evaluating the validity of spectral calibration models for quantitative analysis following signal preprocessing. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2317-27	4.4	4
35	Dissociative recombination and the decay of a molecular ultracold plasma. <i>Journal of Physics:</i> Conference Series, 2011 , 300, 012005	0.3	4
34	High-throughput prediction of physical and mechanical properties of paper from Raman chemometric analysis of pulp fibres1This article is a contribution to the series The Role of Sensors in the New Forest Products Industry and Bioeconomy Canadian Journal of Forest Research, 2011,	1.9	4
33	DiscreteBontinuum and discreteBiscrete interactions in the autoionization spectrum of 11 BH. <i>Molecular Physics</i> , 2007 , 105, 1589-1602	1.7	4
32	Dynamics of dissociative recombination versus electron ejection in single rovibronic resonances of BH. <i>Journal of Chemical Physics</i> , 2007 , 126, 084301	3.9	4
31	Spectroscopic experiments on autoionization and neutral fragmentation in the high-Rydberg states of BH. <i>Journal of Physics: Conference Series</i> , 2005 , 4, 261-266	0.3	4
30	Bendstretch Fermi resonance in DCO+. <i>Journal of Chemical Physics</i> , 2002 , 116, 2370-2378	3.9	4

29	On the Dynamics of Molecular Two-Photon Excitation through Real Intermediate States. <i>Israel Journal of Chemistry</i> , 1984 , 24, 251-258	3.4	4
28	Steady state hot atom kinetic theory model calculations. Time dependent rate coefficients for the nonthermal 18F + H2 reaction. <i>Chemical Physics Letters</i> , 1978 , 53, 588-592	2.5	4
27	Multivariate Analysis of Hemicelluloses in Bleached Kraft Pulp Using Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2016 , 70, 1981-1993	3.1	4
26	Coupled rate-equation hydrodynamic simulation of a Rydberg gas Gaussian ellipsoid: Classical avalanche and evolution to molecular plasma. <i>Chemical Physics</i> , 2018 , 514, 55-66	2.3	4
25	Photoionization spectrum of the B2A? state of HCO. Chemical Physics Letters, 1999, 315, 210-216	2.5	3
24	Chemistry of High Energy Atomic Fluorine: Steady State Kinetic Theory Model Calculations for the 18F + H2 Reaction III. <i>ACS Symposium Series</i> , 1978 , 314-346	0.4	3
23	The np Rydberg series of boron monohydride: l-uncoupling and Rydberg electron interactions with the rovibrational motion of the ion core. <i>Journal of Chemical Physics</i> , 2012 , 136, 214312	3.9	2
22	Higher Vibrationally Excited Levels of the 3p@IRydberg State of HCOII <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10010-10018	2.8	2
21	Evidence for the primary decomposition of propylene oxide to singlet methylene. <i>Journal of Chemical Physics</i> , 1982 , 77, 1886-1890	3.9	2
20	Radio frequency field-induced electron mobility in an ultracold plasma state of arrested relaxation. <i>Physical Review A</i> , 2020 , 102,	2.6	2
19	TOGA feature selection and the prediction of mechanical properties of paper from the Raman spectra of unrefined pulp. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 8401-8415	4.4	1
18	Control of molecular ultracold plasma relaxation dynamics by mm-wave Rydberg transitions. <i>Molecular Physics</i> , 2019 , 117, 3096-3107	1.7	1
17	Three-dimensional imaging of the ultracold plasma formed in a supersonic molecular beam 2015,		1
16	The np Rydberg series of boron monohydride: l-uncoupling and its evolution for intermediate principal quantum numbers $n = 4$ to $n = 11$. <i>Journal of Chemical Physics</i> , 2012 , 136, 214311	3.9	1
15	A switching rule for plastics identification in electronics recycling. <i>International Journal of Computer Integrated Manufacturing</i> , 2008 , 21, 730-743	4.3	1
14	On the Jahn-Teller coupling of an orbital triplet with a vibrational doublet. <i>Chemical Physics</i> , 1991 , 153, 133-140	2.3	1
13	Effect of linear coupling on vibronic energy levels and transition intensities in the Jahn-Teller T? problem. <i>Chemical Physics Letters</i> , 1991 , 187, 309-316	2.5	1
12	Elementary Rate Processes in the Dissociative CO for C2H4 Substitution Reactions of Organometallic Complexes in the Gas Phase. <i>Laser Chemistry</i> , 1988 , 9, 63-73		1

LIST OF PUBLICATIONS

11	Electrocatalysts Derived from Copper Complexes Transform CO into C Products Effectively in a Flow Cell <i>Chemistry - A European Journal</i> , 2022 , e202200340	4.8	1
10	Size Distributions of Gold Nanoparticles in Solution Measured by Single-Particle Mass Photometry. Journal of Physical Chemistry B, 2021 , 125, 12466-12475	3.4	О
9	A quantum molecular movie: polyad predissociation dynamics in the VUV excited 3plstate of NO. <i>Faraday Discussions</i> , 2021 , 228, 191-225	3.6	О
8	Time-Resolved Kinetics of Organometallic Reactions in the Gas Phase by Transient Infrared Absorption Spectrometry 1989 , 227-244		O
7	Obituary for Moshe Shapiro. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 0704	021.3	
6	Dynamical Effects of High Rotational Excitation in Unimolecular Decomposition Activated by Hot Atom Substitution. <i>Advances in Chemistry Series</i> , 1982 , 147-156		
5	Studies of Multiphoton Dissociation of Polyatomic Molecules with Crossed Laser and Molecular Beams. <i>ACS Symposium Series</i> , 1977 , 72-82	0.4	
4	On The High Rydberg States Of The Formyl Radical The Dynamics of Vibrational Autoionization in Triatomic Molecules 1999 , 437-455		
3	Intramolecular Vibrational Relaxation and the Dynamics of the High-Power Two-Photon Excitation of NO2 1988 , 337-346		
2	New Information on the Structure and Dynamics of Molecular Cations from Experiments on The Spectroscopy of Polyatomic Rydberg States 1988 , 293-307		

Dynamics of the Collision Free Unimolecular Fragmentation of Primary Alkyl Epoxides 1986, 415-424