Ilana Bar

List of Publications by Year
in descending order

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173	3,075	159358	253896
papers	citations	30	43
		h-index	g-index

173	173	173	1948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low level laser irradiation stimulates osteogenic phenotype of mesenchymal stem cells seeded on a three-dimensional biomatrix. Lasers in Medical Science, 2005, 20, 138-146.	1.0	99
2	Emission following laser-induced breakdown spectroscopy of organic compounds in ambient air. Applied Optics, 2003, 42, 2835.	2.1	90
3	Controlling bond cleavage and probing intramolecular dynamics via photodissociation of rovibrationally excited molecules. International Reviews in Physical Chemistry, 2001, 20, 711-749.	0.9	86
4	Direct observation of preferential bond fission by excitation of a vibrational fundamental: Photodissociation of HOD (0,0,1). Journal of Chemical Physics, 1990, 93, 2146-2148.	1.2	81
5	Modeâ€selective bond fission: Comparison between the photodissociation of HOD (0,0,1) and HOD (1,0,0). Journal of Chemical Physics, 1991, 95, 3341-3346.	1.2	77
6	Stabilization of the tervalent nickel complex with meso-5,7,7,12,14,14-hexamethyl-1,4,8,11-tetraazacyclotetradecane by axial coordination of anions in aqueous solution. Inorganic Chemistry, 1982, 21, 73-80.	1.9	74
7	Photodissociation of HOD (Î½OD=3): Demonstration of preferential Oâ€“D bond breaking. Journal of Chemical Physics, 1995, 102, 3612-3616.	1.2	63
8	Vibrational Spectra of Î±-Glucose, Î²-Glucose, and Sucrose: Anharmonic Calculations and Experiment. Journal of Physical Chemistry A, 2011, 115, 5859-5872.	1.1	63
9	Conformational Polymorphism VI: The Crystal and Molecular Structures of Form II, Form 111, and Form V of 4-Amino-N-2-pyridinylbenzenesulfonamide (Sulfapyridine). Journal of Pharmaceutical Sciences, 1985, 74, 255-263.	1.6	59
10	Absolute rate constants, reactive cross-sections and isotopic branching ratio for the reaction of O(1D) with HD. Chemical Physics Letters, 1995, 236, 343-349.	1.2	51
11	Writing Droplets of Molecularly Imprinted Polymers by Nano Fountain Pen and Detecting Their Molecular Interactions by Surface-Enhanced Raman Scattering. Analytical Chemistry, 2009, 81, 5686-5690.	3.2	51
12	Absolute rate constants and reactive cross sections for the reactions of O(1D) with molecular hydrogen and deuterium. Chemical Physics Letters, 1993, 214, 546-552.	1.2	49
13	Rotational-state dependent selectivity in the bond fission of C2HD (5Î½1). Chemical Physics Letters, 1997, 268, 163-168.	1.2	46
14	NO and PO photofragments as trace analyte indicators of nitrocompounds and organophosphonates. Applied Physics B: Lasers and Optics, 2000, 71, 665-672.	1.1	43
15	Enhanced stimulated Raman scattering in temperature controlled liquid water. Applied Physics Letters, 2014, 105, 061107.	1.5	41
16	The role of plasma shielding in collinear double-pulse femtosecond laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 97, 34-41.	1.5	40
17	Nitrobenzene Detection by One-Color Laser-Photolysis/Laser-Induced Fluorescence of NO (vâ€•= 0â€“3). Applied Spectroscopy, 1999, 53, 57-64.	1.2	38
18	The use of rovibrationally excited NO photofragments as trace nitrocompounds indicators. Applied Physics B: Lasers and Optics, 2000, 70, 621-625.	1.1	38

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19	Identification of organic compounds in ambient air via characteristic emission following laser ablation. Journal of Luminescence, 2003, 102-103, 408-413.	1.5	38
20	Detection of particles of explosives via backward coherent anti-Stokes Raman spectroscopy. Applied Physics Letters, 2008, 93, 041115.	1.5	36
21	Raman spectral signatures as conformational probes of gas phase flexible molecules. Journal of Chemical Physics, 2009, 131, 024305.	1.2	36
22	Reading microdots of a molecularly imprinted polymer by surface-enhanced Raman spectroscopy. Biosensors and Bioelectronics, 2010, 26, 809-814.	5.3	35
23	Dinitrobenzene detection by use of one-color laser photolysis and laser-induced fluorescence of vibrationally excited NO. Applied Optics, 1999, 38, 4705.	2.1	34
24	An intraline of conical intersections for methylamine. Journal of Chemical Physics, 2008, 128, 244302.	1.2	34
25	Photodissociation of rovibrationally excited C2H2: Observation of two pathways. Journal of Chemical Physics, 1997, 107, 385-391.	1.2	33
26	Molecular conformation and electronic structure. Part III. Crystal and molecular structure of the stable form of N-(p-chlorobenzylidene)-p-chloroaniline. Journal of the Chemical Society Perkin Transactions II, 1976, , 429.	0.9	32
27	Rotational alignment and non-statistical a doublet population in no following (CH3)3CONO photodissociation. Chemical Physics Letters, 1986, 128, 123-126.	1.2	32
28	Stateâ€toâ€state photodissociation of the fundamental symmetric stretch vibration of water prepared by stimulated Raman excitation. Journal of Chemical Physics, 1993, 98, 409-419.	1.2	32
29	Novel effects in inorganic As[sub 50]Se[sub 50] photoresists and their application in micro-optics. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 823.	1.6	32
30	Directional properties in photodissociation: a probe for the symmetry and geometry of excited states of dimethylnitrosamine and tert-butyl nitrite. The Journal of Physical Chemistry, 1987, 91, 5398-5402.	2.9	31
31	Combination bands versus overtone stretch excitation and rotational effects in vibrationally mediated photodissociation of acetylene. Journal of Chemical Physics, 1998, 109, 8959-8967.	1.2	31
32	Acetylenic Câ€“H and methyl Câ€“D bond fission in photodissociation of vibrationally excited propyne-d[sub 3]. Journal of Chemical Physics, 2000, 113, 5134.	1.2	30
33	Conformational polymorphism. 5. Crystal energetics of an isomorphic system including disorder. The Journal of Physical Chemistry, 1984, 88, 243-248.	2.9	29
34	Mode-dependent enhancement of photodissociation and photoionization in a seven atom molecule. Journal of Chemical Physics, 2006, 125, 151103.	1.2	28
35	In situ Generation of Superoxide Anion Radical in Aqueous Medium under Ambient Conditions. ChemPhysChem, 2013, 14, 4158-4164.	1.0	28
36	Highly sensitive standoff detection of explosives via backward coherent anti-Stokes RamanÂscattering. Applied Physics B: Lasers and Optics, 2010, 98, 529-535.	1.1	27

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37	Quantum Tunneling of Hydrogen Atom in Dissociation of Photoexcited Methylamine. Journal of Physical Chemistry A, 2010, 114, 9623-9627.	1.1	26
38	Enhanced action spectra of combination bands of acetylene via vibrationally mediated photodissociation and fragment ionization. Chemical Physics Letters, 1998, 287, 347-352.	1.2	25
39	Detection of explosives and latent fingerprint residues utilizing laser pointerâ€“based Raman spectroscopy. Applied Physics B: Lasers and Optics, 2013, 113, 511-518.	1.1	24
40	Molecular conformation and electronic structure. V. The crystal and molecular structure of N-(p-methylbenzylidine)-p-methylaniline (form II). Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1977, 33, 1738-1744.	0.4	23
41	Conformational polymorphism. 4. Crystal energetics of a trimorphic system including disorder. The Journal of Physical Chemistry, 1982, 86, 3223-3231.	2.9	23
42	Modification of crystal packing and molecular conformation via systematic substitution. Tetrahedron, 1987, 43, 1299-1305.	1.0	23
43	Disclosing rovibrational couplings and overlaps from irregularities in action spectra: Photodissociation of the 4Î½CH rovibrational manifold of C2H2. Journal of Chemical Physics, 2002, 117, 6511-6518.	1.2	23
44	The structural and optical properties of supercontinuum emitting Si nanocrystals prepared by laser ablation in water. Journal of Applied Physics, 2012, 112, .	1.1	23
45	Real time diagnostics of detonation products from lead azide using coherent antiâ€Stokes Raman scattering. Applied Physics Letters, 1991, 59, 3516-3518.	1.5	22
46	Non-adiabatic dissociation of rovibrationally excited acetylene. Physical Chemistry Chemical Physics, 2003, 5, 5399.	1.3	22
47	Symmetry and geometry of the first two excited singlet states of dimethylnitrosoamine studied by vector correlations. Journal of Chemical Physics, 1987, 86, 1639-1640.	1.2	21
48	Câ€“Cl and Câ€“H bond cleavage in 193 nm photodissociation of CH3CF2Cl and CH3CFCl2. Journal of Chemical Physics, 1997, 107, 8476-8482.	1.2	21
49	Probing the effect of an extract of elk velvet antler powder on mesenchymal stem cells using Raman microspectroscopy: enhanced differentiation toward osteogenic fate. Journal of Raman Spectroscopy, 2006, 37, 480-486.	1.2	21
50	A novel intraline of conical intersections for methylamine: A theoretical study. International Journal of Quantum Chemistry, 2009, 109, 2482-2489.	1.0	21
51	Simultaneous Ionization-Detected Stimulated Raman and Visibleâ€“Visibleâ€“Ultraviolet Hole-Burning Spectra of Two Tryptamine Conformers. Journal of Physical Chemistry Letters, 2012, 3, 603-607.	2.1	21
52	Molecular conformation and electronic structure. II: Crystal and molecular structure ofN-(p-bromobenzylidene)-p-bromoaniline. Journal of Crystal and Molecular Structure, 1975, 5, 257-266.	0.4	20
53	Photodissociation of CHF2Cl at 193 nm:Â H/Cl and Cl(2P1/2)/Cl(2P3/2) Branching Ratios. The Journal of Physical Chemistry, 1996, 100, 13375-13380.	2.9	20
54	Vibrationally excited states of CH3CFCl2: Intramolecular vibrational redistribution and photodissociation dynamics. Journal of Chemical Physics, 2000, 112, 10787-10795.	1.2	20

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55	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
56	Ionization-loss stimulated Raman spectroscopy for conformational probing of flexible molecules. Physical Chemistry Chemical Physics, 2011, 13, 6808.	1.3	20
57	H and D release in â^¼243.1 nm photolysis of vibrationally excited 3Î½1, 4Î½1, and 4Î½CD overtones of propyne-d3. Journal of Chemical Physics, 2004, 120, 8600-8607.	1.2	19
58	Vibrational and vibronic spectra of tryptamine conformers. Journal of Chemical Physics, 2013, 138, 124312.	1.2	19
59	Molecular conformation and electronic structure. VI. The structure of p-methyl-N-(p-methylbenzylidene)aniline (form I). Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1982, 38, 121-125.	0.4	18
60	Alteration of Cl spinâ€“orbit branching ratios via photodissociation of pre-excited fundamental CH3 stretch of CH3CFCl2. Chemical Physics Letters, 1999, 315, 421-427.	1.2	18
61	Vibrational overtone spectra of Nâ€“H stretches and intramolecular dynamics on the ground and electronically excited states of methylamine. Journal of Chemical Physics, 2008, 128, 154319.	1.2	18
62	Time-dependent quantum wave-packet description of H and D atom tunneling in Nâ€“H and Nâ€“D photodissociation of methylamine and methylamine-d2. Journal of Chemical Physics, 2009, 131, 064302.	1.2	18
63	Evidence for quantum effects in the predissociation of methylamine isotopologues. Physical Chemistry Chemical Physics, 2015, 17, 19607-19615.	1.3	18
64	Molecular conformation and electronic structure. IV. p-(N-Methylbenzylidene)-p-methylaniline (form) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1609-1611.	0.4	17
65	N-(Triphenylphosphoranylidene)benzamide. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1980, 36, 1962-1964.	0.4	16
66	The Photodissociation of Ground and Vibrationally Excited Halogenated Alkanes. Israel Journal of Chemistry, 1997, 37, 455-465.	1.0	16
67	Fundamental vibrational frequencies and dominant resonances in methylamine isotopologues by ab initio and density functional theory methods. Journal of Computational Chemistry, 2008, 29, 1268-1276.	1.5	16
68	Detection of template binding to molecularly imprinted polymers by Raman microspectroscopy. Applied Physics Letters, 2009, 94, .	1.5	16
69	Efficient frequency conversion by stimulated Raman scattering in a sodium nitrate aqueous solution. Applied Physics Letters, 2015, 107, .	1.5	16
70	Control of Nonadiabatic Passage through a Conical Intersection by a Dynamic Resonance. Journal of Physical Chemistry Letters, 2016, 7, 1717-1724.	2.1	16
71	Molecular conformation and electronic structure. VII. The structure of the isomorphic system p-chloro-N-(p-methylbenzylidene)aniline and p-methyl-N-(p-chlorobenzylidene)aniline. Acta Crystallographica Section B: Structural Science, 1983, 39, 266-272.	1.8	15
72	Vibrational spectroscopy and intramolecular dynamics of 1-butyne. Journal of Chemical Physics, 2004, 121, 5860-5867.	1.2	15

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73	Enhanced sensitivity in H photofragment detection by two-color reduced-Doppler ion imaging. Journal of Chemical Physics, 2013, 139, 184201.	1.2	15
74	Control of fragment alignment via photodissociation from different types of parent rotation. Journal of Chemical Physics, 1993, 99, 4218-4221.	1.2	14
75	Rotationally mediated vector correlations in the photodissociation of H2O (1,0,0). Chemical Physics, 1994, 187, 21-33.	0.9	14
76	Probing molecular dynamics using action, Doppler and photoacoustic spectroscopy. Journal of Molecular Structure, 2005, 744-747, 107-115.	1.8	14
77	Determining the vibrational pattern via overtone cold spectra: Câ€“H methyl stretches of propyne. Journal of Chemical Physics, 2005, 122, 224316.	1.2	14
78	Vibrational structure and methyl Câ€“H dynamics in propyne. Journal of Chemical Physics, 2006, 124, 164301.	1.2	14
79	Raman and infrared spectra of cellobiose in the solid state: What can be learned from single-molecule calculations?. Chemical Physics Letters, 2011, 514, 284-290.	1.2	14
80	The structure of hexacyclopropylbenzene. Tetrahedron, 1977, 33, 3177-3180.	1.0	13
81	Coherent Anti-Stokes Raman Spectroscopy of the Stretching Vibrations of the Water Isotopomers. Applied Spectroscopy, 1992, 46, 1149-1155.	1.2	13
82	Laser-induced phenomena in chalcogenide glassy films. Applied Surface Science, 1996, 106, 502-506.	3.1	13
83	Dynamics of vibrationally mediated photodissociation of CH3CFCl2. Journal of Chemical Physics, 2001, 115, 6418-6425.	1.2	13
84	Differing reactivities in the predissociation of acetylene isotopomers pre-excited with three Cî—¸H stretching quanta. Chemical Physics Letters, 2002, 361, 175-181.	1.2	13
85	Photodissociation dynamics of vibrationally excited CH2Cl2 molecules. Chemical Physics Letters, 2003, 378, 305-312.	1.2	13
86	Evidence for new bands in the 3Î½1 and 4Î½1 regions of propyne. Journal of Chemical Physics, 2005, 122, 244318.	1.2	13
87	Propensity towards H photofragments in the photodissociation of CD₃NH₂ pre-excited to the first Nâ€“H stretch overtone. Molecular Physics, 2008, 106, 213-222.	0.8	13
88	Doppler polarization spectroscopy of the photofragments from an in-plane rotation of water: demonstration of unperturbed vector correlations. The Journal of Physical Chemistry, 1993, 97, 11571-11574.	2.9	12
89	CHF2Cl and CH3CF2Cl Detection by Coherent Anti-Stokes Raman Scattering and Photoacoustic Raman Spectroscopy. Journal of Physical Chemistry A, 1998, 102, 7273-7276.	1.1	12
90	Vibrationally Mediated Photodissociation of Jet-Cooled CH3CF2Cl:â€‰ A Probe of Energy Flow and Bond Breaking Dynamics. Journal of Physical Chemistry A, 2002, 106, 8285-8290.	1.1	12

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91	Photofragment ionization-loss stimulated Raman spectroscopy of a hydrated neurotransmitter: 2-phenylethylamineâ€“water. RSC Advances, 2014, 4, 58752-58757.	1.7	12
92	State-selected photodissociation of D2O. Chemical Physics Letters, 1994, 228, 426-430.	1.2	11
93	Overtone spectroscopy of methyl Câ€“H stretch vibration in CH3CF2Cl and CH3CFCl2. Journal of Chemical Physics, 2000, 112, 4111-4117.	1.2	11
94	Vibrationally mediated photodissociation of ethene isotopic variants preexcited to the fourth Câ€“H stretch overtone. Journal of Chemical Physics, 2006, 125, 133301.	1.2	11
95	Structure and morphology of pulsed laser depos ited boron carbide films: Influence of deposition geometry. Journal of Applied Physics, 2007, 102, 104309.	1.1	11
96	Communication: Mode-specific photodissociation of vibrationally excited pyrrole. Journal of Chemical Physics, 2011, 134, 201104.	1.2	11
97	Low energy electron beam processing of YBCO thin films. Applied Surface Science, 2017, 395, 42-49.	3.1	11
98	A simple strategy for enhanced production of nanoparticles by laser ablation in liquids. Nanotechnology, 2020, 31, 235601.	1.3	11
99	Photodissociation of t-butyl nitrite by UV and blue photons. Chemical Physics Letters, 1984, 109, 296-300.	1.2	10
100	Dynamics of the detonation products of lead azide. I. Hydrodynamics. Journal of Applied Physics, 1992, 71, 4693-4708.	1.1	10
101	Photolysis and Spectroscopy of Vibrationally Excited Câˆ’H Overtones of CHFCl2. Journal of Physical Chemistry A, 2000, 104, 7927-7933.	1.1	10
102	Spectroscopy of the Acetylenic Cî—¸H Stretch of Propyne-d3 in the Region of the Second Overtone. Journal of Molecular Spectroscopy, 2001, 208, 249-252.	0.4	10
103	Photodissociation and intramolecular dynamics of vibrationally excited CHF2Cl. Journal of Chemical Physics, 2002, 116, 1869-1876.	1.2	10
104	Intramolecular Dynamics in the Photofragmentation of Initially Vibrationally Excited CH2Cl2â€. Journal of Physical Chemistry A, 2004, 108, 8089-8095.	1.1	10
105	Nonstatistical energy flow in the first Nâ€“H stretch overtone region of methylamine. Chemical Physics Letters, 2007, 440, 194-198.	1.2	10
106	Intralines of Quasi-Conical Intersections on Torsion Planes: Methylamine as a Case Study. Journal of Physical Chemistry A, 2009, 113, 6756-6762.	1.1	10
107	Reading Biochips by Raman and Surface-Enhanced Raman Spectroscopies. Plasmonics, 2013, 8, 3-12.	1.8	10
108	Structural motifs of 2-(2-fluoro-phenyl)-ethylamine conformers. Physical Chemistry Chemical Physics, 2016, 18, 1191-1201.	1.3	10

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109	The sudden expansion of a gas cloud into vacuum revisited. Physics of Fluids A, Fluid Dynamics, 1993, 5, 3265-3272.	1.6	9
110	<title>Films of chalcogenide glasses as perspective materials for optical information recording</title>. , 1995, , .		9
111	Mode-dependent enhancement and intramolecular dynamics via vibrationally mediated photodissociation. Physica Scripta, 2007, 76, C79-C83.	1.2	9
112	Site-dependent photodissociation of vibronically excited CD3NH2 molecules. Journal of Chemical Physics, 2010, 132, 244310.	1.2	9
113	Micro-Raman spectroscopy of laser processed YBa2Cu3O7-Î´ thin films. Journal of Applied Physics, 2011, 110, .	1.1	9
114	Intramolecular dynamics from frequency domain spectroscopy. Vibrational Spectroscopy, 2006, 42, 147-155.	1.2	8
115	Molecular Dynamics of Methylamine Following Cï£¿H and Nï£¿H Vibrational Excitation and Promotion to the Ãƒ State. Israel Journal of Chemistry, 2007, 47, 11-16.	1.0	8
116	Photo-guided sampling for rapid detection and imaging of traces of explosives by a compact Raman spectrometer. Applied Physics Letters, 2014, 104, 221103.	1.5	8
117	Dynamics of the detonation products of lead azide. II. Formation of charged particles. Journal of Applied Physics, 1993, 73, 2138-2144.	1.1	7
118	Spectroscopy of D2O (2,0,1). Journal of Molecular Spectroscopy, 1996, 180, 298-304.	0.4	7
119	Site-dependent photodissociation of vibrationally excited CD3NH2. Journal of Chemical Physics, 2009, 130, 164312.	1.2	7
120	Structural features of monohydrated 2-(4-fluorophenyl)ethylamine: a combined spectroscopic and computational study. Physical Chemistry Chemical Physics, 2017, 19, 23999-24008.	1.3	7
121	The Ï€-molecular complex stilbeneâ€“(sym-trinitrobenzene)2. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1978, 34, 3438-3441.	0.4	6
122	Multiple charge reaction cell for studies of primary explosives. Review of Scientific Instruments, 1989, 60, 132-134.	0.6	6
123	Preferential excitation and enhanced emission of Pb atoms following detonation of lead azide. Applied Physics Letters, 1991, 58, 322-324.	1.5	6
124	State-resolved dynamics of the O(1D) + CHF2Cl â†' OH + CF2Cl reaction. Chemical Physics Letters, 1995, 247, 321-326.	1.2	6
125	Vibrationally mediated photodissociation of 1-butyne initially excited to the 3Î½1 state. Chemical Physics Letters, 2004, 392, 140-145.	1.2	6
126	A new method for determining absorption cross sections out of initially excited vibrational states. Journal of Chemical Physics, 2009, 130, 054303.	1.2	6

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127	The conformational landscape of 2-(4-fluoro-phenyl)-ethylamine: consequences of fluorine substitution at the para position. Physical Chemistry Chemical Physics, 2017, 19, 510-522.	1.3	6
128	Alloying copper and palladium nanoparticles by pulsed laser irradiation of colloids suspended in ethanol. RSC Advances, 2018, 8, 33291-33300.	1.7	6
129	Generation of Size-Controlled Crystalline CeO₂ Particles by Pulsed Laser Irradiation in Water. Journal of Physical Chemistry C, 2019, 123, 30666-30675.	1.5	6
130	Implications of thermal lensing and four-wave mixing on stimulated Raman scattering in an aqueous solution of sodium nitrate. Optics and Laser Technology, 2020, 127, 106169.	2.2	6
131	Pulsed laser deposition of marine origin material: Preparation and characterization of CaCO3 particles and CaO nanocrystals. Journal of Applied Physics, 2004, 95, 8309-8313.	1.1	5
132	Bullous pemphigoid detection by micro-Raman spectroscopy and cluster analysis: structure alterations of proteins. Journal of Raman Spectroscopy, 2005, 36, 1034-1039.	1.2	5
133	Overtone spectroscopy of Câ€“H ethyl stretches of 1-butyne. Journal of Chemical Physics, 2005, 123, 084316.	1.2	5
134	Vibrational Overtone Spectroscopy and Intramolecular Dynamics of Ethene. Journal of Physical Chemistry A, 2007, 111, 10646-10653.	1.1	5
135	Vibrationally mediated photodissociation of ethyne isotopologues and homologues revisited. Molecular Physics, 2012, 110, 2673-2686.	0.8	5
136	Vibrational dynamics of pyrrole via frequency-domain spectroscopy. Journal of Chemical Physics, 2012, 136, 024313.	1.2	5
137	A new imaging-based method for alignment of multiple laser beams. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 237, 118404.	2.0	5
138	The Ï€-molecular complexes trans-azobenzeneâ€“(sym-trinitrobenezene)2 and N-benzylideneanilineâ€“(sym-trinitrobenzene)2. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1981, 37, 569-575.	0.4	4
139	Photodissociation from an in-plane rotation in water as a direct probe of dynamics. Journal of Photochemistry and Photobiology A: Chemistry, 1994, 80, 23-32.	2.0	4
140	Action Spectroscopy and Predissociation of Vibrationally Excited C2HD. Zeitschrift Fur Physikalische Chemie, 2005, 219, 569-582.	1.4	4
141	Revealing the Hot Bands in the Regions of the Nâ€“H and Câ€“H Stretch Fundamentals of Pyrrole. Journal of Physical Chemistry A, 2013, 117, 11618-11623.	1.1	4
142	Computational modeling of laser-plasma interactions: Pulse self-modulation and energy transfer between intersecting laser pulses. Physical Review E, 2013, 88, 013307.	0.8	4
143	Point and proximal detection and imaging: Testing of a compact Raman spectrometer coupled with photo-guided sampling. Journal of Molecular Structure, 2015, 1090, 34-38.	1.8	4
144	A compact and cost-effective laser desorption source for molecular beam generation: comparison with simulations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 175401.	0.6	4

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145	Experimental/Computational Study on the Impact of Fluorine on the Structure and Noncovalent Interactions in the Monohydrated Cluster of ortho-Fluorinated 2-Phenylethylamine. Journal of the American Chemical Society, 2022, 144, 8337-8346.	6.6	4
146	Laser photobleaching leads to a fluorescence grade adenosine deaminase. Analytical Biochemistry, 1989, 181, 383-388.	1.1	3
147	ÃŠ-Î¼-V Correlation In One-Colour Photolysis/Ionization Of Tert-Butyl Nitrite. Laser Chemistry, 1990, 10, 197-206.	0.5	3
148	Laserâ€induced holeâ€burning and flow visualization in the cloud of products of detonated lead azide. Applied Physics Letters, 1992, 61, 1281-1283.	1.5	3
149	Dynamics of the detonation products of lead azide: III. Laserâ€induced hole burning and flow visualization. Journal of Applied Physics, 1993, 74, 45-52.	1.1	3
150	Real-time measurement and control of particle-number density and size of the detonation products of lead azide. Applied Physics B: Lasers and Optics, 1994, 59, 45-52.	1.1	3
151	Rovibrational spectroscopy and intramolecular dynamics of 1,2-trans-d2-ethene in the first Cî—¸H stretch overtone region. Journal of Chemical Physics, 2008, 128, 114305.	1.2	3
152	Line-scan Raman spectroscopy for detection and imaging of explosives traces by a compact Raman spectrometer. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	3
153	Microstructure and the boson peak in thermally treated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:mi>x</mml:mi></mml:ms mathvariant="normal">O</mml:mi></mml:mrow></mml:math> films. Physical Review Materials, 2021, 5, .	0.9	3
154	Revealing the Structure and Noncovalent Interactions of Isolated Molecules by Laser-Desorption/Ionization-Loss Stimulated Raman Spectroscopy and Quantum Calculations. Journal of Physical Chemistry Letters, 2021, 12, 11273-11279.	2.1	3
155	Dynamics of the detonation products of lead azide. IV. Laser shadowgraphy of expanding species. Journal of Applied Physics, 1993, 74, 5360-5365.	1.1	2
156	<title>Photoresists based on chalcogenide glasses for submicron lithography</title>. , 1993, 1972, 251.		2
157	Detection of polymorphism in the methlyenetetrahydrofolate reductase gene by Raman spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 1083-1088.	1.2	2
158	Laser-Based Detection of Explosives and Related Compounds. NATO Science for Peace and Security Series A: Chemistry and Biology, 2014, , 179-194.	0.5	2
159	Velocity map ion imaging and velocity-resolved action spectroscopy of H atom photofragments via Doppler-free multiphoton ionization. Chemical Physics Letters, 2017, 677, 1-6.	1.2	2
160	Maximal kinetic energy and angular distribution analysis of spatial map imaging: Application to photoelectrons from a single quantum state of H2O. Journal of Chemical Physics, 2021, 154, 134201.	1.2	2
161	Suppression of self-induced thermal lensing in stimulated Raman scattering of liquids. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 74.	0.9	2
162	Competition between photodissociation and photoionization in alkyl nitrites. International Journal of Mass Spectrometry and Ion Processes, 1988, 82, 319-333.	1.9	1

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163	Vibrational overtone spectroscopy and intramolecular dynamics of Câ€“H stretches in pyrrole. Journal of Chemical Physics, 2013, 138, 194310.	1.2	1
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