BenoÃ®t Soep

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6626437/publications.pdf

Version: 2024-02-01

142 papers	3,190 citations	147786 31 h-index	189881 50 g-index
145 all docs	145 docs citations	145 times ranked	1818 citing authors

#	Article	IF	Citations
1	Orbitally selective chemical reaction in Hgâ€“H2 van der Waals complexes. Journal of Chemical Physics, 1986, 84, 1443-1450.	3.0	143
2	The structure of several electronic states of the Hgâ€“Ar complex as determined by laser double resonance in a supersonic jet. Journal of Chemical Physics, 1986, 85, 6324-6334.	3.0	125
3	Photochemistry in excited states of van der Waals complexes. The Journal of Physical Chemistry, 1987, 91, 5416-5422.	2.9	106
4	Characterization of the I2â¯ anion ground state using conventional and femtosecond photoelectron spectroscopy. Journal of Chemical Physics, 1997, 107, 7613-7619.	3.0	102
5	Study of triplet quantum yields using a tunable dye laser. Chemical Physics Letters, 1972, 13, 241-244.	2.6	86
6	State selective reactions prepared through the excitation of orbital states in van der Waals complexes of Caâ€“HX*. Journal of Chemical Physics, 1992, 96, 440-449.	3.0	85
7	Photochemistry in van der Waals complexes: Observation of the intermediate state of the Hg*,Cl2 reaction. Chemical Physics Letters, 1983, 96, 426-428.	2.6	81
8	Prereactive evolution of monoalkenes excited in the 6 eV region. Journal of Chemical Physics, 2000, 113, 237-248.	3.0	80
9	Observation and spectroscopy of metallic free radicals produced by reactive collisions during a supersonic expansion. Journal of Chemical Physics, 1990, 93, 991-1000.	3.0	78
10	Experimental study of the cold mercury dimer. Journal of Chemical Physics, 1987, 86, 6565-6566.	3.0	77
11	Electronic relaxation induced by dissociation of a van der Waals complex: (Hgâ€“N2)*(3P1)â†’Hgâ€‰3P0+N2. Journal of Chemical Physics, 1984, 80, 2229-2230.	3.0	68
12	Observation of the reactive potential-energy surface of the Caâ€“HX* system through van der Waals excitation. Faraday Discussions of the Chemical Society, 1991, 91, 191-205.	2.2	65
13	Gas-Phase Dynamics of Spiropyran and Spirooxazine Molecules. Journal of the American Chemical Society, 2006, 128, 3169-3178.	13.7	61
14	Bonding in complexes of mercury (6s6s1S0) and mercury (6s6p3P1) with rare-gas atoms and small molecules: from physical to chemical interactions. The Journal of Physical Chemistry, 1991, 95, 7145-7153.	2.9	60
15	Transition state observation of excited harpoon reactions, within Caâ€HX van der Waals complexes. Journal of Chemical Physics, 1996, 105, 4556-4564.	3.0	59
16	A time-resolved photoelectron study of the double excited-state proton-transfer reaction in 7-azaindole dimer. Chemical Physics Letters, 1997, 273, 219-226.	2.6	58
17	Spectroscopy, dynamics and structures of jet formed anthracene clusters. Chemical Physics, 2002, 275, 123-147.	1.9	54
18	Mercury-rare gas van der Waals complexes: From the lightest Hgî—¸He to the heaviest Hgî—¸Xe. Chemical Physics Letters, 1985, 119, 317-319.	2.6	53

#	Article	IF	Citations
19	Femtosecond electronic relaxation of excited metalloporphyrins in the gas phase. Journal of Chemical Physics, 2006, 124, 114302.	3.0	52
20	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ar</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Photoelectron Spectroscopy Mediated by Autoionizing States. Physical Review Letters, 2012, 109, 193401.	7.8	50
21	Direct measurement of excited singlet-state lifetime in the homologous sequence adenine, adenosine, adenosine 5â€²-monophosphate and in calf thymus DNA. Chemical Physics Letters, 1996, 252, 322-326.	2.6	49
22	An Efficient Indirect Mechanism for the Ultrafast Intersystem Crossing in Copper Porphyrins. Journal of Physical Chemistry A, 2013, 117, 8111-8118.	2.5	48
23	Transition state in metal atom reactions. International Reviews in Physical Chemistry, 2003, 22, 285-339.	2.3	47
24	Observation of an indirect pathway in the femtosecond study of alkyl nitrite photodissociation in the S1 state. Journal of Chemical Physics, 1995, 103, 1013-1023.	3.0	44
25	Vibrational predissociation in van der Waals complexes of glyoxal with Ar and Kr. Journal of Chemical Physics, 1984, 80, 2340-2351.	3.0	43
26	Observation of radiationless processes in a molecular beam. Journal of Chemical Physics, 1976, 64, 1242-1243.	3.0	40
27	Ultrafast Dynamics of Acetylacetone (2,4-Pentanedione) in the S₂ State. Journal of the American Chemical Society, 2008, 130, 2974-2983.	13.7	39
28	Structure and predissociation of electronically excited HgN2 complex. Journal of Chemical Physics, 1988, 89, 2975-2984.	3.0	34
29	Halfâ€collision studies of the Hgâ€“NH3 excimer. Journal of Chemical Physics, 1988, 88, 2148-2158.	3.0	34
30	Gas phase dynamics of triplet formation in benzophenone. Physical Chemistry Chemical Physics, 2014, 16, 9610-9618.	2.8	34
31	Time-resolved photoion and photoelectron imaging of NO2. Physical Chemistry Chemical Physics, 2006, 8, 2925.	2.8	32
32	Laser double-resonance studies of Rydberg states of HgAr. Chemical Physics Letters, 1985, 122, 181-184.	2.6	31
33	Photochemistry in Van Der Waals Complexes: (Hgâ€”H2)* â†' HgH + H. Laser Chemistry, 1985, 5, 157-165.	0.5	31
34	Dissociative multiphoton ionization of NO[sub 2] studied by time-resolved imaging. Journal of Chemical Physics, 2004, 121, 7776.	3.0	31
35	Dynamics of highly excited barium atoms deposited on large argon clusters. I. General trends. Journal of Chemical Physics, 2010, 133, 054307.	3.0	31
36	Comparison of hydrogen bond formation of indole in solution and in a supersonic expansion. The Journal of Physical Chemistry, 1983, 87, 3582-3584.	2.9	30

#	Article	IF	Citations
37	Experimental Evidence for Ultrafast Electronic Relaxation in Molecules, Mediated by Diffuse States. Journal of the American Chemical Society, 2005, 127, 16529-16534.	13.7	30
38	Direct mapping of recoil in the ion-pair dissociation of molecular oxygen by a femtosecond depletion method. Journal of Chemical Physics, 2008, 129, 214306.	3.0	30
39	Solvation of magnesium and singly ionized magnesium atoms in NH3 clusters: Theory and experiment. Journal of Chemical Physics, 2000, 112, 10912-10925.	3.0	29
40	Selective excitation of the ion pair surface in the intracluster Caâ€“HCl* harpoon reaction. Journal of Chemical Physics, 1998, 108, 8374-8380.	3.0	27
41	Reactivity of the calcium/hydrogen chloride van der Waals complex. The Journal of Physical Chemistry, 1988, 92, 4574-4576.	2.9	25
42	Luminescence and triplet decay in quinoxaline vapors. Chemical Physics, 1975, 7, 52-61.	1.9	24
43	A roaming wavepacket in the dynamics of electronically excited 2-hydroxypyridine. Physical Chemistry Chemical Physics, 2014, 16, 581-587.	2.8	24
44	Wave Packet Movements near the Conical Intersection between Two Excited Potential Surfaces May Create Observable Molecular Oscillations. Physical Review Letters, 2003, 91, 103001.	7.8	23
45	First observation in the gas phase of the ultrafast electronic relaxation pathways of the S2 states of heme and hemin. Physical Chemistry Chemical Physics, 2010, 12, 14985.	2.8	23
46	Potential characteristics of the mercury-methane van der Waals complex. Chemical Physics Letters, 1987, 141, 225-231.	2.6	22
47	Ab-initio calculation of the ground and excited states of MgH using a pseudopotential approach. Chemical Physics Letters, 2009, 471, 22-28.	2.6	22
48	Unusual Quantum Interference in the S₁ State of DABCO and Observation of Intramolecular Vibrational Redistribution. Journal of Physical Chemistry A, 2010, 114, 3313-3319.	2.5	22
49	Study of intersystem crossing in naphthalene and 1-methylnaphthalene in collision-free conditions and pressure effects. Chemical Physics, 1973, 2, 293-303.	1.9	21
50	Rotational analysis of the NO2 6125-Ã... region. Journal of Molecular Spectroscopy, 1979, 77, 402-428.	1.2	21
51	Stereodynamics and Active Controls in Chemical Reactions. The Journal of Physical Chemistry, 1995, 99, 13569-13570.	2.9	21
52	Spectral characterization in a supersonic beam of neutral chlorophyll a evaporated from spinach leaves. Journal of Chemical Physics, 2011, 135, 114303.	3.0	21
53	Direct observation of slow intersystem crossing in an aromatic ketone, fluorenone. Physical Chemistry Chemical Physics, 2016, 18, 22914-22920.	2.8	21
54	Time resolved observation of the solvation dynamics of a Rydberg excited molecule deposited on an argon cluster-I: DABCO^{â˜†}at short times. Physical Chemistry Chemical Physics, 2014, 16, 516-526.	2.8	19

#	Article	IF	Citations
55	Electronic relaxation of biacetyl in a supersonic jet. Chemical Physics Letters, 1979, 64, 469-472.	2.6	18
56	Vibrational predissociation decay channels for glyoxal complexes. Chemical Physics Letters, 1982, 87, 109-112.	2.6	18
57	Femtosecond to nanosecond relaxation time scales in electronically excited tetrakis(dimethylamino)ethylene: identification of the intermediates. European Physical Journal D, 2001, 14, 191-203.	1.3	18
58	Metal atom-rare gas van der Waals complexes. Advances in Metal and Semiconductor Clusters, 1996, , 1-83.	1.5	18
59	Fluorescence of glyoxal in supersonic jets. Chemical Physics Letters, 1979, 64, 465-468.	2.6	17
60	A Multipronged Comparative Study of the Ultraviolet Photochemistry of 2-, 3-, and 4-Chlorophenol in the Gas Phase. Journal of Physical Chemistry A, 2015, 119, 6045-6056.	2.5	17
61	Excited-State Dynamics of Fully Reduced Flavins and Flavoenzymes Studied at Subpicosecond Time Resolution. Photochemistry and Photobiology, 1998, 68, 150.	2.5	17
62	Selective electronic relaxation in the supersonic expansion: Rotationally resolved intersystem crossing in 1Au glyoxal. Journal of Chemical Physics, 1980, 73, 4127-4129.	3.0	16
63	Electronic relaxation induced by the dissociation of van der Waals complexes: Intersystem crossing in 1Au Ar and He glyoxal complexes. Journal of Chemical Physics, 1981, 75, 1661-1666.	3.0	16
64	Low Field Laser Ionization of Argon Clusters: The Remarkable Fragmentation Dynamics of Doubly Ionized Clusters. Physical Review Letters, 2007, 99, 103401.	7.8	16
65	Orbital orientation in van der waals reactions. Journal of the Chemical Society, Faraday Transactions 2, 1989, 85, 1133.	1.1	15
66	Picosecond spectroscopy of the HgAr van der Waals complex. Journal of Chemical Physics, 1995, 103, 9589-9595.	3.0	15
67	Direct observation of internal conversion in collision-free conditions in pentacene by S 0 * â†' S 1 * transient absorption. Chemical Physics Letters, 1975, 33, 108-113.	2.6	14
68	Reactions of Laser-Ablated Zirconium Atoms within a Supersonic Expansion: Insertion versus Radical Mechanism. Journal of Physical Chemistry A, 2010, 114, 5655-5665.	2.5	14
69	Conformational changes on electronic excitation of the mercury-water van der Waals complex. The Journal of Physical Chemistry, 1991, 95, 9075-9080.	2.9	13
70	Picosecond dynamics observed on weakly attractive potential energy surfaces. Dissociation dynamics and vibrational recurrences of the mercury-argon van der Waals complex. Chemical Physics Letters, 1992, 200, 267-273.	2.6	13
71	Femtosecond study of the rise and decay of carbenes in solution. Chemical Physics Letters, 1998, 296, 323-328.	2.6	13
72	Excited state reactions of metals in clusters: Pluridimensional harpoon and solvation effects. Faraday Discussions, 2001, 118, 209-219.	3.2	13

#	Article	IF	Citations
73	Bonding of heme Fe^{III} with dioxygen: observation and characterization of an incipient bond. Physical Chemistry Chemical Physics, 2015, 17, 25693-25699.	2.8	13
74	Laser spectroscopy of metallic free radicals: the observation of the Clfâ€“Xlf vibronically allowed electronic transition for Caâ€“OCH3, Caâ€“OC2H5 and Caâ€“CCH. Chemical Physics Letters, 1998, 288, 785-792.	2.6	12
75	Observation and decay of free and ligated metalloporphyrins in the gas phase. Chemical Physics Letters, 2002, 357, 37-44.	2.6	12
76	Competitive direct vs. indirect photochromism dynamics of constrained inverse dithienylethene molecules. Physical Chemistry Chemical Physics, 2014, 16, 22262-22272.	2.8	11
77	The dramatic effect of N-methylimidazole on trans axial ligand binding to ferric heme: experiment and theory. Physical Chemistry Chemical Physics, 2019, 21, 1750-1760.	2.8	11
78	A Theoretical Study of Hgâ¯Arn (n=1, 2, 3) Clusters Excited in the Hg(3Pâ†1S) Spectral Region. NATO ASI Series Series B: Physics, 1990, , 471-491.	0.2	11
79	Transition State Spectroscopy of the Photoinduced Ca + CH3F Reaction. 2. Experimental and Ab Initio Studies of the Free CaÂ·Â·Â·FCH3Complex. Journal of Physical Chemistry A, 2006, 110, 7355-7363.	2.5	10
80	Water binding to FeIIIhemes studied in a cooled ion trap: characterization of a strong â€˜weakâ€™ ligand. Physical Chemistry Chemical Physics, 2019, 21, 21329-21340.	2.8	10
81	Selection de la frequence d'emission de lasers a colorants a l'aide d'une lame plusieurs fois demi-onde. Optics Communications, 1970, 1, 433-434.	2.1	9
82	Induction of optical transitions through complexation within Hgâ€“rare gas van der Waals systems. Journal of Chemical Physics, 1995, 103, 5956-5963.	3.0	9
83	Intracluster reactions of singly ionised magnesium atoms with dimethyl ether. Chemical Physics Letters, 2000, 327, 365-373.	2.6	9
84	Direct Observation of Microscopic Solvation at the Surface of Clusters by Ultrafast Photoelectron Imaging. Journal of Physical Chemistry A, 2008, 112, 9200-9210.	2.5	9
85	Dioxygen Binding to Protonated Heme in the Gas Phase, an Intermediate Between Ferric and Ferrous Heme. Chemistry - A European Journal, 2017, 23, 13493-13500.	3.3	9
86	Dynamics of acetylene dimers hosted in helium droplets. Physical Chemistry Chemical Physics, 2018, 20, 2597-2605.	2.8	9
87	Excited state reactions of metals on clusters: Full dynamics of the Ca*+HBr reaction on Ar2000. Journal of Chemical Physics, 2002, 117, 5036-5047.	3.0	8
88	Observation of doubly ionised metalloporphyrins in the gas phase prepared by femtosecond ionisation. Chemical Physics Letters, 2004, 391, 380-384.	2.6	8
89	Infrared Spectra of RuTPP, RuCOTPP, and Ru(CO)2TPP Isolated in Solid Argon. Journal of Physical Chemistry A, 2005, 109, 8268-8274.	2.5	8
90	Transition-State Spectroscopy of the Photoinduced Ca + CH3F Reaction. 3. Reaction Following the Local Excitation to Ca(4s3d 1D). Journal of Physical Chemistry A, 2008, 112, 1408-1420.	2.5	8

#	Article	IF	Citations
91	Structure of cobalt protoporphyrin chloride and its dimer, observation and DFT modeling. Physical Chemistry Chemical Physics, 2016, 18, 16700-16708.	2.8	8
92	Self-trapping relaxation decay investigated by time-resolved photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 11206-11214.	2.8	8
93	Laser spectroscopic studies of the E1Î£+ `Rydberg' state of the MgO molecule. Chemical Physics Letters, 2004, 392, 62-67.	2.6	7
94	Ultrafast electronic relaxation of excited state vitamin B12 in the gas phase. Chemical Physics, 2008, 350, 2-6.	1.9	7
95	Charge transfer in metal-atom-containing molecules in the gas phase. International Reviews in Physical Chemistry, 2009, 28, 359-406.	2.3	7
96	Photoionization of Benzophenone in the Gas Phase: Theory and Experiment. Journal of Physical Chemistry A, 2015, 119, 6148-6154.	2.5	7
97	Multipronged mapping to the dynamics of a barium atom deposited on argon clusters. Physical Chemistry Chemical Physics, 2016, 18, 32378-32386.	2.8	7
98	The surprisingly high ligation energy of CO to ruthenium porphyrins. Physical Chemistry Chemical Physics, 2018, 20, 11730-11739.	2.8	7
99	Reactions in van der waals complexes, on experimental approach to the reactive surfaces of Hg (³P₁) + H₂. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1987, 84, 381-384.	0.2	7
100	Observation and interpretation of the fluorescence excitation spectrum of hexafluorobiacetyl under free jet expansion. Chemical Physics, 1985, 95, 293-298.	1.9	6
101	Dynamics of excited tetrakis(dimethylamino)ethylene solvated by argon atoms. Chemical Physics, 2004, 301, 225-237.	1.9	6
102	Investigation of Ionâˆ'Molecule ReactionsviaFemtosecond Excitation and Ionization of [Tetrakis(dimethylamino)ethylene]nâ‰¥1. Journal of Physical Chemistry A, 2004, 108, 3884-3895.	2.5	6
103	Isotope Effect in the Vibrational Predissociation of van der Waals Molecules: Complexes of Glyoxal With H2 and D2. Laser Chemistry, 1982, 1, 77-82.	0.5	5
104	Interaction of the Antitumoral Drug Pazelliptine with Polynucleotides: A Subpicosecond Transient Absorption Study. Journal of Physical Chemistry B, 1998, 102, 3631-3636.	2.6	5
105	Determination of the Ground Electronic State in Transition Metal Halides: ZrF. Journal of Physical Chemistry A, 2011, 115, 9620-9632.	2.5	5
106	Spectroscopy and Dynamics of K Atoms on Argon Clusters. Journal of Physical Chemistry A, 2015, 119, 6074-6081.	2.5	5
107	Van der Waals Molecules as Probes for Collision Processes. NATO ASI Series Series B: Physics, 1990, , 103-121.	0.2	5
108	On the vibronic spectrum of small mercury-argon clusters. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1995, 92, 384-396.	0.2	5

#	Article	IF	Citations
109	Generation of picosecond VUV radiation by four-wave mixing of nanosecond and picosecond laser radiations. Optics Communications, 1996, 124, 118-120.	2.1	4
110	Large amplitude motion of the acetylene molecule within acetyleneâ€“neon complexes hosted in helium droplets. Physical Chemistry Chemical Physics, 2016, 18, 16414-16422.	2.8	4
111	A HElium NanoDroplet Isolation (HENDI) investigation of the weak hydrogen bonding in the propyne dimer (CH3CCH)2. Physical Chemistry Chemical Physics, 2018, 20, 28658-28666.	2.8	4
112	Energetics and ionization dynamics of two diarylketone molecules: benzophenone and fluorenone. Physical Chemistry Chemical Physics, 2019, 21, 14453-14464.	2.8	4
113	Time-Resolved Observation of the Solvation Dynamics of a Rydberg Excited Molecule Deposited on an Argon Cluster. II. DABCOâ˜† at Long Time Delays. Journal of Physical Chemistry A, 2021, 125, 4341-4351.	2.5	4
114	Solvation shift of a conical intersection in clusters of excited tetrakis(dimethyl amino)ethylene with ammonia and acetonitrile molecules. Chemical Physics Letters, 2004, 399, 234-238.	2.6	3
115	Femtosecond photodissociation dynamics of van der Waals cationic clusters: a tool for detecting metastable isomers of organic cations. Chemical Physics Letters, 2004, 391, 254-258.	2.6	2
116	Photodepletion measurements of the Zrâ‹¯Fâ€“CH3 van der Waals complex. Chemical Physics Letters, 2010, 491, 140-145.	2.6	2
117	Ultrafast Electronic Relaxation of Excited State of Biomimetic Metalloporphyrins in the Gas Phase. , 2011, , .		2
118	Stereodynamics of Chemical Reactions 2012. Journal of Physical Chemistry A, 2013, 117, 8093-8094.	2.5	2
119	Observation in the gas phase of the ligation of 1-Methylimidazole to hemoprotein mimics. Journal of Chemical Physics, 2014, 141, 174310.	3.0	2
120	Reactive and Inelastic Channels in the Ca*Â·Â·Â·FCH3 Transition State: A Simple Branching Mechanism. Journal of Physical Chemistry A, 2015, 119, 6099-6110.	2.5	2
121	Characterisation and modeling of a pulsed molecular beam. Molecular Physics, 2021, 119, e1737743.	1.7	2
122	Heme ligation in the gas phase. International Reviews in Physical Chemistry, 2021, 40, 365-404.	2.3	2
123	Excited Van Der Waals Complexes as a Probe for Intermediate States in Collisions. , 1987, , 149-162.		2
124	Structure and Dynamics of Mercury Van Der Waals Complexes. , 1987, , 213-229.		2
125	DIRECT OBSERVATION OF THE TRANSITION STATE OF A PHOTOCHEMICAL REACTION ; THE Hg3 P1, Cl2 SYSTEM. Journal De Physique Colloque, 1985, 46, C1-313-C1-318.	0.2	2
126	A new kind of laser Q switch. Proceedings of the IEEE, 1968, 56, 1613-1613.	21.3	1

#	Article	IF	Citations
127	Time resolved spectroscopy of triptophan polar solutions. Journal of Molecular Structure, 1986, 143, 313-316.	3.6	1
128	Ultrafast non-resonant multiphoton preparation of ion-molecule reactions within clusters. Chemical Physics Letters, 1996, 256, 293-296.	2.6	1
129	Time resolved observation of multiple electronic configurations in the electronic relaxation of isolated molecules by photoelectron imaging. AIP Conference Proceedings, 2005, , .	0.4	1
130	Bidentate ligation of magnesium by 1,2-dimethoxyethane in the gas phase. Journal of Chemical Physics, 2009, 131, 224319.	3.0	1
131	Autobiography of BenoÃ®t Soep. Journal of Physical Chemistry A, 2010, 114, 2956-2961.	2.5	1
132	Large amplitude motion within acetyleneâ€“rare gas complexes hosted in helium droplets. Physical Chemistry Chemical Physics, 2019, 21, 1038-1045.	2.8	1
133	Consistent characterization of the electronic ground state of iron(<scp>ii</scp>) phthalocyanine from valence and coreâ€“shell electron spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 2656-2663.	2.8	1
134	Excited state dynamics of normal dithienylethene molecules either isolated or deposited on argon cluster. Physical Chemistry Chemical Physics, 2022, , .	2.8	1
135	Observation of vibrational recurrences and of resonances in van der Waals complexes. AIP Conference Proceedings, 1996, , .	0.4	0
136	Transition State in Metal Atom Reactions. ChemInform, 2003, 34, no.	0.0	0
137	Micro solvation dynamics at the passage of conical intersections observed in argon clusters of excited tetrakis(dimethylamino) ethylene. , 2004, , 29-32.		0
138	Tribute to Jean-Michel Mestdagh. Journal of Physical Chemistry A, 2015, 119, 5901-5902.	2.5	0
139	Propyne-water complexes hosted in helium droplets. Low Temperature Physics, 2019, 45, 634-638.	0.6	0
140	Ultrafast Photoelectron imaging of the electronic relaxation of a molecule deposited at the surface of an argon cluster. , 2006, , 174-182.		0
141	Photochemistry in Excited States of Van der Waals Complexes. Physica Scripta, 1988, T23, 155-159.	2.5	0
142	Action spectroscopy of spin forbidden states in the gas phase: A powerful probe for large non-luminescent molecules. Journal of Chemical Physics, 2020, 152, 144306.	3.0	0