Jean-Michel Mestdagh

List of Publications by Year
in descending order

76	941	394421 19	526287 27
papers	citations	h-index	g-index

78	78	78	840
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reaction Dynamics within a Cluster Environment. Physical Chemistry Chemical Physics, 2022, , .	2.8	1
2	Excited state dynamics of normal dithienylethene molecules either isolated or deposited on argon cluster. Physical Chemistry Chemical Physics, 2022, , .	2.8	1
3	Characterisation and modeling of a pulsed molecular beam. Molecular Physics, 2021, 119, e1737743.	1.7	2
4	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
5	Excited State Dynamics of Isolated 6â€•and 8â€Hydroxyquinoline Molecules. ChemPhysChem, 2020, 21, 2605-2613.	2.1	3
6	High-resolution vacuum ultraviolet absorption spectra of 2,3- and 2,5-dihydrofuran. Journal of Chemical Physics, 2020, 153, 134303.	3.0	1
7	Vacuum-Ultraviolet Absorption Spectrum of 3-Methoxyacrylonitrile. Journal of Physical Chemistry A, 2020, 124, 9470-9477.	2.5	6
8	Propyne-water complexes hosted in helium droplets. Low Temperature Physics, 2019, 45, 634-638.	0.6	0
9	The role of spin-orbit coupling in the optical spectroscopy of atomic sodium isolated in solid xenon. Low Temperature Physics, 2019, 45, 715-720.	0.6	1
10	Energetics and ionization dynamics of two diarylketone molecules: benzophenone and fluorenone. Physical Chemistry Chemical Physics, 2019, 21, 14453-14464.	2.8	4
11	Large amplitude motion within acetyleneâ€“rare gas complexes hosted in helium droplets. Physical Chemistry Chemical Physics, 2019, 21, 1038-1045.	2.8	1
12	Dynamics of acetylene dimers hosted in helium droplets. Physical Chemistry Chemical Physics, 2018, 20, 2597-2605.	2.8	9
13	Self-trapping relaxation decay investigated by time-resolved photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 11206-11214.	2.8	8
14	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
15	Large amplitude motions within molecules trapped in solid parahydrogen. Faraday Discussions, 2018, 212, 499-515.	3.2	8
16	Direct observation of slow intersystem crossing in an aromatic ketone, fluorenone. Physical Chemistry Chemical Physics, 2016, 18, 22914-22920.	2.8	21
17	Multipronged mapping to the dynamics of a barium atom deposited on argon clusters. Physical Chemistry Chemical Physics, 2016, 18, 32378-32386.	2.8	7
18	Characterization of a seeded pulsed molecular beam using the velocity map imaging technique. AIP Conference Proceedings, 2016, , .	0.4	1

#	Article	IF	Citations
19	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
20	Photoionization of Benzophenone in the Gas Phase: Theory and Experiment. Journal of Physical Chemistry A, 2015, 119, 6148-6154.	2.5	7
21	Autobiography of Jean-Michel Mestdagh. Journal of Physical Chemistry A, 2015, 119, 5903-5906.	2.5	0
22	Absorption Spectroscopy, a Tool for Probing Local Structures and the Onset of Large-Amplitude Motions in Small KAr_n Clusters at Increasing Temperatures. Journal of Physical Chemistry A, 2015, 119, 9729-9738.	2.5	2
23	Laser induced fluorescence spectroscopy of the Ca dimer deposited on helium and mixed helium/xenon clusters. , 2014, , .		0
24	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
25	A roaming wavepacket in the dynamics of electronically excited 2-hydroxypyridine. Physical Chemistry Chemical Physics, 2014, 16, 581-587.	2.8	24
26	Gas phase dynamics of triplet formation in benzophenone. Physical Chemistry Chemical Physics, 2014, 16, 9610-9618.	2.8	34
27	Competitive direct vs. indirect photochromism dynamics of constrained inverse dithienylethene molecules. Physical Chemistry Chemical Physics, 2014, 16, 22262-22272.	2.8	11
28	Coupled Electronic and Structural Relaxation Pathways in the Postexcitation Dynamics of Rydberg States of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BaAr</mml:mi></mml:mrow><mml:mrow><mml:mi>N</mml:mi></mml:m Physical Review Letters, 2014, 113, 123005.	7.8	13
29	Fluorescence emission of Ca-atom from photodissociated Ca2 in Ar doped helium droplets. II. Theoretical. Journal of Chemical Physics, 2012, 137, 184311.	3.0	6
30	Theoretical investigations of the electronic states of NaXe: A comparative study. Journal of Chemical Physics, 2012, 137, 224310.	3.0	10
31	Reactivity of Ba and Ca atoms with N[sub 2]O molecules deposited on van der Waals clusters and helium droplets. , 2012, , .		1
32	Fluorescence emission of Ca-atom from photodissociated Ca2 in Ar-doped helium droplets. I. Experimental. Journal of Chemical Physics, 2012, 137, 184310.	3.0	5
33	Femtosecond dynamics of cyclopropenylidene, c-C₃H₂. Physical Chemistry Chemical Physics, 2012, 14, 6173-6178.	2.8	16
34	Joint Bayesian decomposition of a spectroscopic signal sequence with RJMCMC. , 2012, , .		1
35	Photochemistry of acetylacetone isolated in parahydrogen matrices upon 266 nm irradiation. Physical Chemistry Chemical Physics, 2012, 14, 3450.	2.8	17
36	Nuclear Spin Conversion to Probe the Methyl Rotation Effect on Hydrogenâ€Bond and Vibrational Dynamics. Angewandte Chemie - International Edition, 2012, 51, 6947-6950.	13.8	15

#	Article	IF	Citations
37	A new Monte Carlo method for getting the density of states of atomic cluster systems. Journal of Chemical Physics, 2011, 135, 144109.	3.0	5
38	Determination of the Ground Electronic State in Transition Metal Halides: ZrF. Journal of Physical Chemistry A, 2011, 115, 9620-9632.	2.5	5
39	Photodepletion measurements of the Zrâ‹¯Fâ€“CH3 van der Waals complex. Chemical Physics Letters, 2010, 491, 140-145.	2.6	2
40	Dynamics of highly excited barium atoms deposited on large argon clusters. I. General trends. Journal of Chemical Physics, 2010, 133, 054307.	3.0	31
41	Observation of a barium xenon exciplex within a large argon cluster. Journal of Chemical Physics, 2010, 133, 034306.	3.0	5
42	Side-Chain Effects on the Electronic Relaxation of Radicals followed by Time-Resolved Pumpâ^'Probe Spectroscopy: 2,3-Dimethylbut-2-yl vs tert-Butyl. Journal of Physical Chemistry A, 2010, 114, 3045-3049.	2.5	6
43	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
44	Bidentate ligation of magnesium by 1,2-dimethoxyethane in the gas phase. Journal of Chemical Physics, 2009, 131, 224319.	3.0	1
45	Evidence for a non-Rydberg molecular doubly excited state of Ca2. Chemical Physics Letters, 2009, 467, 260-264.	2.6	9
46	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
47	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
48	Femtosecond Dynamics of Isolated Phenylcarbenes. Journal of the American Chemical Society, 2008, 130, 14908-14909.	13.7	17
49	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
50	Ultrafast Dynamics of Acetylacetone (2,4-Pentanedione) in the S₂ State. Journal of the American Chemical Society, 2008, 130, 2974-2983.	13.7	39
51	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
52	Low Field Laser Ionization of Argon Clusters: The Remarkable Fragmentation Dynamics of Doubly Ionized Clusters. Physical Review Letters, 2007, 99, 103401.	7.8	16
53	Femtosecond Dynamics of the tert-Butyl Radical, t-C4H9. Journal of Physical Chemistry A, 2007, 111, 1771-1779.	2.5	24
54	Gas-Phase Dynamics of Spiropyran and Spirooxazine Molecules. Journal of the American Chemical Society, 2006, 128, 3169-3178.	13.7	61

#	Article	IF	Citations
55	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
56	Ultrafast Photoelectron imaging of the electronic relaxation of a molecule deposited at the surface of an argon cluster. , 2006, , 174-182.		0
57	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
58	Transition State Spectroscopy of the Photoinduced Ca + CH3F Reaction. 1. A Cluster Isolated Chemical Reaction Study. Journal of Physical Chemistry A, 2005, 109, 9494-9498.	2.5	14
59	Dynamics of excited tetrakis(dimethylamino)ethylene solvated by argon atoms. Chemical Physics, 2004, 301, 225-237.	1.9	6
60	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
61	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
62	Investigation of Ionâ^'Molecule ReactionsviaFemtosecond Excitation and Ionization of [Tetrakis(dimethylamino)ethylene]nâ‰¥1. Journal of Physical Chemistry A, 2004, 108, 3884-3895.	2.5	6
63	Transition State in Metal Atom Reactions. ChemInform, 2003, 34, no.	0.0	0
64	Transition state in metal atom reactions. International Reviews in Physical Chemistry, 2003, 22, 285-339.	2.3	47
65	Theoretical study of the finite-temperature spectroscopy in van der Waals clusters. III. Solvated chromophore as an effective diatomics. Journal of Chemical Physics, 2003, 118, 8763-8769.	3.0	5
66	Collision-Induced Dissociation by Helium:Â A Piecewise Construction of the Cross Section. Journal of Physical Chemistry A, 2002, 106, 1714-1726.	2.5	6
67	Multifragmentation of the Au(H2O)nâ‰10+ Cluster Ions by Collision with Helium. Journal of Physical Chemistry A, 2002, 106, 5455-5462.	2.5	29
68	Two-electron pseudopotential investigation of the electronic structure of the CaAr molecule. Journal of Chemical Physics, 2002, 117, 7534-7550.	3.0	38
69	Probing several structures of Fe(H2O)n+ and Co(H2O)n+ (n=1,â€¦,10) cluster ions. International Journal of Mass Spectrometry, 2002, 220, 111-126.	1.5	23
70	Reactions of N2O with Lin in the gas-phase and on the surfaces of large Arn clusters. Chemical Physics Letters, 2002, 364, 225-230.	2.6	6
71	Binding energies of first and second shell water molecules in the Fe(H2 O)2+, Co(H2 O)2+ and Au(H2) Tj ETQq1 1 0.784314 rgBT /O	1.3	34
72	Rayleigh Scattering of Laser and Synchrotron Radiation from Pulsed Free Jets of Arn and (N2O)n Clusters. Journal of Physical Chemistry A, 1998, 102, 6457-6463.	2.5	26

#	Article	IF	Citations
73	Ba(6s6pP1,mj1)â†'Ba(6s6pP2,mjâ€²3) Zeeman cross sections in single collisions withN2,O2, andH2. Physical Review A, 1993, 47, 241-254.	2.5	7
74	On the perturbations in the (000-000) band of the BaOH transition. Journal of Molecular Spectroscopy, 1991, 145, 210-221.	1.2	8
75	A simple method to determine the mean cluster size in a molecular beam. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1991, 21, 265-269.	1.0	48
76	Dynamics of electronically inelastic collisions from 3D Doppler measurements. Physical Review Letters, 1991, 67, 3070-3073.	7.8	9