

Jean-Michel Mestdagh

List of Publications by Year in descending order

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76
papers

941
citations

394421

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526287

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78
all docs

78
docs citations

78
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas-Phase Dynamics of Spiropyran and Spirooxazine Molecules. Journal of the American Chemical Society, 2006, 128, 3169-3178.	13.7	61
2	A simple method to determine the mean cluster size in a molecular beam. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1991, 21, 265-269.	1.0	48
3	Transition state in metal atom reactions. International Reviews in Physical Chemistry, 2003, 22, 285-339.	2.3	47
4	Ultrafast Dynamics of Acetylacetone (2,4-Pentanedione) in the S ₂ State. Journal of the American Chemical Society, 2008, 130, 2974-2983.	13.7	39
5	Two-electron pseudopotential investigation of the electronic structure of the CaAr molecule. Journal of Chemical Physics, 2002, 117, 7534-7550.	3.0	38
6	Binding energies of first and second shell water molecules in the Fe(H ₂ O) ₂ ⁺ , Co(H ₂ O) ₂ ⁺ and Au(H ₂ O) ₂ ⁺ cluster ions. Journal of Chemical Physics, 2000, 113, 3400-3406.	1.3	34
7	Gas phase dynamics of triplet formation in benzophenone. Physical Chemistry Chemical Physics, 2014, 16, 9610-9618.	2.8	34
8	Dynamics of highly excited barium atoms deposited on large argon clusters. I. General trends. Journal of Chemical Physics, 2010, 133, 054307.	3.0	31
9	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
10	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
11	Multifragmentation of the Au(H ₂ O) _n ⁺ Cluster Ions by Collision with Helium. Journal of Physical Chemistry A, 2002, 106, 5455-5462.	2.5	29
12	Rayleigh Scattering of Laser and Synchrotron Radiation from Pulsed Free Jets of Ar and (N ₂ O) _n Clusters. Journal of Physical Chemistry A, 1998, 102, 6457-6463.	2.5	26
13	Femtosecond Dynamics of the tert-Butyl Radical, t-C ₄ H ₉ . Journal of Physical Chemistry A, 2007, 111, 1771-1779.	2.5	24
14	A roaming wavepacket in the dynamics of electronically excited 2-hydroxypyridine. Physical Chemistry Chemical Physics, 2014, 16, 581-587.	2.8	24
15	Probing several structures of Fe(H ₂ O) _n ⁺ and Co(H ₂ O) _n ⁺ (n=1, 2, 3, 4, 5, 6, 7, 8, 9, 10) cluster ions. International Journal of Mass Spectrometry, 2002, 220, 111-126.	1.5	23
16	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
17	Unusual Quantum Interference in the S ₁ State of DABCO and Observation of Intramolecular Vibrational Redistribution. Journal of Physical Chemistry A, 2010, 114, 3313-3319.	2.5	22
18	Direct observation of slow intersystem crossing in an aromatic ketone, fluorenone. Physical Chemistry Chemical Physics, 2016, 18, 22914-22920.	2.8	21

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19	Time resolved observation of the solvation dynamics of a Rydberg excited molecule deposited on an argon cluster-I: DABCO ⁺ at short times. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 516-526.	2.8	19
20	Femtosecond Dynamics of Isolated Phenylcarbenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 14908-14909.	13.7	17
21	Photochemistry of acetylacetone isolated in parahydrogen matrices upon 266 nm irradiation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3450.	2.8	17
22	Low Field Laser Ionization of Argon Clusters: The Remarkable Fragmentation Dynamics of Doubly Ionized Clusters. <i>Physical Review Letters</i> , 2007, 99, 103401.	7.8	16
23	Femtosecond dynamics of cyclopropenylidene, c-C ₃ H ₂ . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6173-6178.	2.8	16
24	Nuclear Spin Conversion to Probe the Methyl Rotation Effect on Hydrogen Bond and Vibrational Dynamics. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6947-6950.	13.8	15
25	Transition State Spectroscopy of the Photoinduced Ca + CH ₃ F Reaction. 1. A Cluster Isolated Chemical Reaction Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9494-9498.	2.5	14
26	Coupled Electronic and Structural Relaxation Pathways in the Postexcitation Dynamics of Rydberg States of BaAr ⁺ N ⁺ . <i>Physical Review Letters</i> , 2014, 113, 123005.	7.8	13
27	Competitive direct vs. indirect photochromism dynamics of constrained inverse dithienylethene molecules. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22262-22272.	2.8	11
28	Transition State Spectroscopy of the Photoinduced Ca + CH ₃ F Reaction. 2. Experimental and Ab Initio Studies of the Free Ca ⁺ FCH ₃ Complex. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7355-7363.	2.5	10
29	Theoretical investigations of the electronic states of NaXe: A comparative study. <i>Journal of Chemical Physics</i> , 2012, 137, 224310.	3.0	10
30	Dynamics of electronically inelastic collisions from 3D Doppler measurements. <i>Physical Review Letters</i> , 1991, 67, 3070-3073.	7.8	9
31	Direct Observation of Microscopic Solvation at the Surface of Clusters by Ultrafast Photoelectron Imaging. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9200-9210.	2.5	9
32	Evidence for a non-Rydberg molecular doubly excited state of Ca ₂ . <i>Chemical Physics Letters</i> , 2009, 467, 260-264.	2.6	9
33	Dynamics of acetylene dimers hosted in helium droplets. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2597-2605.	2.8	9
34	On the perturbations in the (000-000) band of the BaOH transition. <i>Journal of Molecular Spectroscopy</i> , 1991, 145, 210-221.	1.2	8
35	Transition-State Spectroscopy of the Photoinduced Ca + CH ₃ F Reaction. 3. Reaction Following the Local Excitation to Ca(4s3d 1D). <i>Journal of Physical Chemistry A</i> , 2008, 112, 1408-1420.	2.5	8
36	Self-trapping relaxation decay investigated by time-resolved photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11206-11214.	2.8	8

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37	Large amplitude motions within molecules trapped in solid parahydrogen. <i>Faraday Discussions</i> , 2018, 212, 499-515.	3.2	8
38	Ba(6s6pP1,mj1)â†'Ba(6s6pP2,mjâ€²3) Zeeman cross sections in single collisions with N2, O2, and H2. <i>Physical Review A</i> , 1993, 47, 241-254.	2.5	7
39	Photoionization of Benzophenone in the Gas Phase: Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6148-6154.	2.5	7
40	Multipronged mapping to the dynamics of a barium atom deposited on argon clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32378-32386.	2.8	7
41	Collision-Induced Dissociation by Helium: A Piecewise Construction of the Cross Section. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1714-1726.	2.5	6
42	Reactions of N2O with Lin in the gas-phase and on the surfaces of large Arn clusters. <i>Chemical Physics Letters</i> , 2002, 364, 225-230.	2.6	6
43	Dynamics of excited tetrakis(dimethylamino)ethylene solvated by argon atoms. <i>Chemical Physics</i> , 2004, 301, 225-237.	1.9	6
44	Investigation of Ionâˆ™Molecule Reactions via Femtosecond Excitation and Ionization of [Tetrakis(dimethylamino)ethylene]nâ‰¥1. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3884-3895.	2.5	6
45	Side-Chain Effects on the Electronic Relaxation of Radicals followed by Time-Resolved Pumpâˆ™Probe Spectroscopy: 2,3-Dimethylbut-2-yl vs <i>tert</i> -Butyl. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3045-3049.	2.5	6
46	Fluorescence emission of Ca-atom from photodissociated Ca2 in Ar doped helium droplets. II. Theoretical. <i>Journal of Chemical Physics</i> , 2012, 137, 184311.	3.0	6
47	Vacuum-Ultraviolet Absorption Spectrum of 3-Methoxyacrylonitrile. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9470-9477.	2.5	6
48	Theoretical study of the finite-temperature spectroscopy in van der Waals clusters. III. Solvated chromophore as an effective diatomics. <i>Journal of Chemical Physics</i> , 2003, 118, 8763-8769.	3.0	5
49	Observation of a barium xenon exciplex within a large argon cluster. <i>Journal of Chemical Physics</i> , 2010, 133, 034306.	3.0	5
50	A new Monte Carlo method for getting the density of states of atomic cluster systems. <i>Journal of Chemical Physics</i> , 2011, 135, 144109.	3.0	5
51	Determination of the Ground Electronic State in Transition Metal Halides: ZrF. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9620-9632.	2.5	5
52	Fluorescence emission of Ca-atom from photodissociated Ca2 in Ar-doped helium droplets. I. Experimental. <i>Journal of Chemical Physics</i> , 2012, 137, 184310.	3.0	5
53	Large amplitude motion of the acetylene molecule within acetyleneâˆ™neon complexes hosted in helium droplets. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16414-16422.	2.8	4
54	A Helium NanoDroplet Isolation (HENDI) investigation of the weak hydrogen bonding in the propyne dimer (CH3CCH)2. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28658-28666.	2.8	4

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55	Energetics and ionization dynamics of two diarylketone molecules: benzophenone and fluorenone. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14453-14464.	2.8	4
56	Time-Resolved Observation of the Solvation Dynamics of a Rydberg Excited Molecule Deposited on an Argon Cluster. II. DABCO† at Long Time Delays. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4341-4351.	2.5	4
57	Solvation shift of a conical intersection in clusters of excited tetrakis(dimethyl amino)ethylene with ammonia and acetonitrile molecules. <i>Chemical Physics Letters</i> , 2004, 399, 234-238.	2.6	3
58	Excited State Dynamics of Isolated 6â€ and 8â€ Hydroxyquinoline Molecules. <i>ChemPhysChem</i> , 2020, 21, 2605-2613.	2.1	3
59	Femtosecond photodissociation dynamics of van der Waals cationic clusters: a tool for detecting metastable isomers of organic cations. <i>Chemical Physics Letters</i> , 2004, 391, 254-258.	2.6	2
60	Photodepletion measurements of the Zrâ€Fâ€CH ₃ van der Waals complex. <i>Chemical Physics Letters</i> , 2010, 491, 140-145.	2.6	2
61	Absorption Spectroscopy, a Tool for Probing Local Structures and the Onset of Large-Amplitude Motions in Small KAr_n Clusters at Increasing Temperatures. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9729-9738.	2.5	2
62	Characterisation and modeling of a pulsed molecular beam. <i>Molecular Physics</i> , 2021, 119, e1737743.	1.7	2
63	Bidentate ligation of magnesium by 1,2-dimethoxyethane in the gas phase. <i>Journal of Chemical Physics</i> , 2009, 131, 224319.	3.0	1
64	Reactivity of Ba and Ca atoms with N[₂]O molecules deposited on van der Waals clusters and helium droplets. , 2012, , .		1
65	Joint Bayesian decomposition of a spectroscopic signal sequence with RJMCMC. , 2012, , .		1
66	Characterization of a seeded pulsed molecular beam using the velocity map imaging technique. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
67	The role of spin-orbit coupling in the optical spectroscopy of atomic sodium isolated in solid xenon. <i>Low Temperature Physics</i> , 2019, 45, 715-720.	0.6	1
68	Large amplitude motion within acetyleneâ€rare gas complexes hosted in helium droplets. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1038-1045.	2.8	1
69	High-resolution vacuum ultraviolet absorption spectra of 2,3- and 2,5-dihydrofuran. <i>Journal of Chemical Physics</i> , 2020, 153, 134303.	3.0	1
70	Reaction Dynamics within a Cluster Environment. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	1
71	Excited state dynamics of normal dithienylethene molecules either isolated or deposited on argon cluster. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	1
72	Transition State in Metal Atom Reactions. <i>ChemInform</i> , 2003, 34, no.	0.0	0

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73	Laser induced fluorescence spectroscopy of the Ca dimer deposited on helium and mixed helium/xenon clusters. , 2014, , .		0
74	Autobiography of Jean-Michel Mestdagh. Journal of Physical Chemistry A, 2015, 119, 5903-5906.	2.5	0
75	Propyne-water complexes hosted in helium droplets. Low Temperature Physics, 2019, 45, 634-638.	0.6	0
76	Ultrafast Photoelectron imaging of the electronic relaxation of a molecule deposited at the surface of an argon cluster. , 2006, , 174-182.		0