

David A Bonhommeau

List of Publications by Year in descending order

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30

papers

404

citations

840776

11

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docs citations

31

times ranked

399

citing authors

#	ARTICLE	IF	CITATIONS
1	MeCaSDa and ECaSDa: Methane and ethene calculated spectroscopic databases for the virtual atomic and molecular data centre. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 62-68.	2.3	83
2	Mixed quantum/classical investigation of the photodissociation of NH ₃ (A ₁ f) and a practical method for maintaining zero-point energy in classical trajectories. <i>Journal of Chemical Physics</i> , 2008, 129, 014302.	3.0	47
3	Coupled-surface investigation of the photodissociation of NH ₃ (A ₁ f): Effect of exciting the symmetric and antisymmetric stretching modes. <i>Journal of Chemical Physics</i> , 2009, 130, 234303.	3.0	34
4	Dissociative ionization of neon clusters N _n , n=3 to 14: A realistic multisurface dynamical study. <i>Journal of Chemical Physics</i> , 2005, 123, 054316.	3.0	29
5	Fragmentation dynamics of argon clusters (Ar _n , n=2 to 11) following electron-impact ionization: Modeling and comparison with experiment. <i>Journal of Chemical Physics</i> , 2006, 124, 184314.	3.0	27
6	Fragmentation of rare-gas clusters ionized by electron impact: new theoretical developments and comparison with experiments. <i>International Reviews in Physical Chemistry</i> , 2007, 26, 353-390.	2.3	26
7	CO ₂ Diffusion in Champagne Wines: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1839-1847.	2.6	20
8	Fragmentation dynamics of ionized neon trimer inside helium nanodroplets: A theoretical study. <i>Journal of Chemical Physics</i> , 2004, 120, 11359-11362.	3.0	17
9	Fragmentation of size-selected Xe clusters: Why does the monomer ion channel dominate the Xen and ionization?. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 78-84.	1.5	15
10	Modelization of the fragmentation dynamics of krypton clusters (Kr _n ,n=2-11) following electron impact ionization. <i>Journal of Chemical Physics</i> , 2006, 124, 164308.	3.0	14
11	Fragmentation dynamics of ionized neon clusters (N _n ,n=3-14) embedded in helium nanodroplets. <i>Journal of Chemical Physics</i> , 2006, 124, 024328.	3.0	11
12	Unveiling the Interplay Between Diffusing CO ₂ and Ethanol Molecules in Champagne Wines by Classical Molecular Dynamics and ¹³ C NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4232-4237.	4.6	11
13	Charge localization in multiply charged clusters and their electrical properties: Some insights into electrospray droplets. <i>Journal of Chemical Physics</i> , 2012, 136, 184503.	3.0	9
14	Structure and stability of charged clusters. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284130.	1.8	8
15	Dynamics and thermodynamics of decay in charged clusters. <i>Molecular Physics</i> , 2015, 113, 2428-2434.	1.7	8
16	MCMC2 : A Monte Carlo code for multiply-charged clusters. <i>Computer Physics Communications</i> , 2013, 184, 873-884.	7.5	7
17	Fragmentation dynamics of Ar ₄ He ₁₀₀₀ upon electron impact ionization: Competition between ion ejection and trapping. <i>Journal of Chemical Physics</i> , 2020, 152, 234305.	3.0	7
18	The Physical Origin of the Venus Low Atmosphere Chemical Gradient. <i>Astrophysical Journal</i> , 2019, 880, 82.	4.5	6

#	ARTICLE	IF	CITATIONS
19	Rayleigh limit and fragmentation of multiply charged Lennard-Jones clusters: Can charged clusters provide clues to investigate the stability of electrospray droplets?. <i>Journal of Chemical Physics</i> , 2017, 146, 124314.	3.0	5
20	Clustering, collision, and relaxation dynamics in pure and doped helium nanoclusters: Density- vs particle-based approaches. <i>Journal of Chemical Physics</i> , 2022, 157, 014106.	3.0	5
21	MDMC2: A molecular dynamics code for investigating the fragmentation dynamics of multiply charged clusters. <i>Computer Physics Communications</i> , 2014, 185, 684-694.	7.5	3
22	Toward In Silico Prediction of CO ₂ Diffusion in Champagne Wines. <i>ACS Omega</i> , 2021, 6, 11231-11239.	3.5	3
23	Vertical compositional variations of liquid hydrocarbons in Titanâ€™s alkanofers. <i>Astronomy and Astrophysics</i> , 2021, 653, A80.	5.1	3
24	MCMC2 (version 1.1): A Monte Carlo code for multiply-charged clusters. <i>Computer Physics Communications</i> , 2014, 185, 1188-1191.	7.5	2
25	Unveiling Carbon Dioxide and Ethanol Diffusion in Carbonated Water-Ethanol Mixtures by Molecular Dynamics Simulations. <i>Molecules</i> , 2021, 26, 1711.	3.8	2
26	MCMC2 (version 1.1.2): A Monte Carlo code for multiply charged clusters. <i>Computer Physics Communications</i> , 2016, 207, 533-535.	7.5	1
27	<i>Zero-point averaged dynamics of Ar_n and He_n clusters in carbon dioxide and ethanol mixtures: Dopant-size influence on potential-energy surfaces, mass spectra and fragmentation.</i> <i>Chemical Physics</i> , 2021, 550, 111307.	1.9	1
28	MCMC2 (version 1.1.1): A Monte Carlo code for multiply charged clusters. <i>Computer Physics Communications</i> , 2015, 196, 614-616.	7.5	0
29	Temperature Dependence of CO ₂ and Ethanol Diffusion in Champagne Wines: A Joint Molecular Dynamics and ¹³ C NMR Study. <i>ACS Symposium Series</i> , 2015, , 69-83.	0.5	0
30	A practical law to predict the appearance sizes of multiply charged rare-gas and molecular clusters. <i>Chemical Physics Letters</i> , 2017, 685, 275-281.	2.6	0