David A Bonhommeau

List of Publications by Year
in descending order

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30	404	840776 11	752698 20
papers	citations	h-index	g-index

31	31	31	399
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clustering, collision, and relaxation dynamics in pure and doped helium nanoclusters: Density- vs particle-based approaches. Journal of Chemical Physics, 2022, 157, 014106.	3.0	5
2	Unveiling Carbon Dioxide and Ethanol Diffusion in Carbonated Water-Ethanol Mixtures by Molecular Dynamics Simulations. Molecules, 2021, 26, 1711.	3.8	2
3	Toward In Silico Prediction of CO₂ Diffusion in Champagne Wines. ACS Omega, 2021, 6, 11231-11239.	3.5	3
4	Vertical compositional variations of liquid hydrocarbons in Titanâ€™s alkanofers. Astronomy and Astrophysics, 2021, 653, A80.	5.1	3
5	Zero-point averaged dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si67.svg"><mml:mrow><mml:msubsup><mml:mrow><mml:mi mathvariant="normal">Ar</mml:mi></mml:mrow><mml:mrow><mml:mi>n</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msubsup><mml:mo></mml:mo><mml:msub><mml:mrow><mml:mi mathvariant="normal">He</mml:mi></mml:mrow><mml:mrow><mml:mn>1000</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Dopant-size influence on potential-energy surfaces, mass spectra and fragmentation. Chemical Physics, 2021, 550, 111307.	1.9	1
6	Fragmentation dynamics of Ar4He1000 upon electron impact ionization: Competition between ion ejection and trapping. Journal of Chemical Physics, 2020, 152, 234305.	3.0	7
7	The Physical Origin of the Venus Low Atmosphere Chemical Gradient. Astrophysical Journal, 2019, 880, 82.	4.5	6
8	Rayleigh limit and fragmentation of multiply charged Lennard-Jones clusters: Can charged clusters provide clues to investigate the stability of electrospray droplets?. Journal of Chemical Physics, 2017, 146, 124314.	3.0	5
9	A practical law to predict the appearance sizes of multiply charged rare-gas and molecular clusters. Chemical Physics Letters, 2017, 685, 275-281.	2.6	0
10	MCMC2 (version 1.1.2): A Monte Carlo code for multiply charged clusters. Computer Physics Communications, 2016, 207, 533-535.	7.5	1
11	MCMC2 (version 1.1.1): A Monte Carlo code for multiply charged clusters. Computer Physics Communications, 2015, 196, 614-616.	7.5	0
12	Dynamics and thermodynamics of decay in charged clusters. Molecular Physics, 2015, 113, 2428-2434.	1.7	8
13	Temperature Dependence of CO₂and Ethanol Diffusion in Champagne Wines: A Joint Molecular Dynamics and¹³C NMR Study. ACS Symposium Series, 2015, , 69-83.	0.5	0
14	MDMC2: A molecular dynamics code for investigating the fragmentation dynamics of multiply charged clusters. Computer Physics Communications, 2014, 185, 684-694.	7.5	3
15	Unveiling the Interplay Between Diffusing CO₂ and Ethanol Molecules in Champagne Wines by Classical Molecular Dynamics and ¹³C NMR Spectroscopy. Journal of Physical Chemistry Letters, 2014, 5, 4232-4237.	4.6	11
16	CO₂ Diffusion in Champagne Wines: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2014, 118, 1839-1847.	2.6	20
17	MCMC2 (version 1.1): A Monte Carlo code for multiply-charged clusters. Computer Physics Communications, 2014, 185, 1188-1191.	7.5	2
18	MeCaSDa and ECaSDa: Methane and ethene calculated spectroscopic databases for the virtual atomic and molecular data centre. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 62-68.	2.3	83

#	Article	IF	Citations
19	MCMC2 : A Monte Carlo code for multiply-charged clusters. Computer Physics Communications, 2013, 184, 873-884.	7.5	7
20	Charge localization in multiply charged clusters and their electrical properties: Some insights into electrospray droplets. Journal of Chemical Physics, 2012, 136, 184503.	3.0	9
21	Structure and stability of charged clusters. Journal of Physics Condensed Matter, 2012, 24, 284130.	1.8	8
22	Coupled-surface investigation of the photodissociation of NH3(Ã¹A'): Effect of exciting the symmetric and antisymmetric stretching modes. Journal of Chemical Physics, 2009, 130, 234303.	3.0	34
23	Fragmentation of size-selected Xe clusters: Why does the monomer ion channel dominate the Xen and ionization?. International Journal of Mass Spectrometry, 2009, 280, 78-84.	1.5	15
24	Mixed quantum/classical investigation of the photodissociation of NH3(Ã¹A') and a practical method for maintaining zero-point energy in classical trajectories. Journal of Chemical Physics, 2008, 129, 014302.	3.0	47
25	Fragmentation of rare-gas clusters ionized by electron impact: new theoretical developments and comparison with experiments. International Reviews in Physical Chemistry, 2007, 26, 353-390.	2.3	26
26	Modelization of the fragmentation dynamics of krypton clusters (Krn,n=2â€“11) following electron impact ionization. Journal of Chemical Physics, 2006, 124, 164308.	3.0	14
27	Fragmentation dynamics of argon clusters (Arn, n=2 to 11) following electron-impact ionization: Modeling and comparison with experiment. Journal of Chemical Physics, 2006, 124, 184314.	3.0	27
28	Fragmentation dynamics of ionized neon clusters (Nen,n=3â€“14) embedded in helium nanodroplets. Journal of Chemical Physics, 2006, 124, 024328.	3.0	11
29	Dissociative ionization of neon clusters Nen, n=3 to 14: A realistic multisurface dynamical study. Journal of Chemical Physics, 2005, 123, 054316.	3.0	29
30	Fragmentation dynamics of ionized neon trimer inside helium nanodroplets: A theoretical study. Journal of Chemical Physics, 2004, 120, 11359-11362.	3.0	17