

# Aimable Kalume

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10908594/publications.pdf>

Version: 2024-02-01

29  
papers

362  
citations

759233

12  
h-index

839539

18  
g-index

29  
all docs

29  
docs citations

29  
times ranked

258  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of iso-CF <sub>2</sub> I <sub>2</sub> in frequency and ultrafast time domains. <i>Journal of Chemical Physics</i> , 2010, 132, 124501.	3.0	29
2	Detection and characterization of chemical aerosol using laser-trapping single-particle Raman spectroscopy. <i>Applied Optics</i> , 2017, 56, 6577.	1.8	28
3	Particle-shape classification using light scattering: An exercise in deep learning. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 231, 140-156.	2.3	25
4	Spectroscopic and computational studies of matrix-isolated iso-CHBr <sub>3</sub> : Structure, properties, and photochemistry of iso-bromoform. <i>Journal of Chemical Physics</i> , 2011, 135, 124503.	3.0	24
5	Isomerization as a Key Path to Molecular Products in the Gas-Phase Decomposition of Halons. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3090-3095.	4.6	23
6	Atmospheric aging processes of bioaerosols under laboratory-controlled conditions: A review. <i>Journal of Aerosol Science</i> , 2021, 155, 105767.	3.8	21
7	Matrix isolation and computational study of isodifluorodibromomethane (F <sub>2</sub> CFBr <sub>2</sub> ): A route to Br <sub>2</sub> formation in CF <sub>2</sub> Br <sub>2</sub> photolysis. <i>Journal of Chemical Physics</i> , 2010, 132, 084503.	3.0	19
8	Formation and relaxation dynamics of iso-CH <sub>2</sub> ClI in cryogenic matrices. <i>Journal of Chemical Physics</i> , 2011, 135, 114503.	3.0	19
9	Liquid-liquid phase separation and evaporation of a laser-trapped organic-organic airborne droplet using temporal spatial-resolved Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19151-19159.	2.8	15
10	Optical-trapping of particles in air using parabolic reflectors and a hollow laser beam. <i>Optics Express</i> , 2019, 27, 33061.	3.4	14
11	Review of elastic light scattering from single aerosol particles and application in bioaerosol detection. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 279, 108067.	2.3	14
12	Position-resolved Raman spectra from a laser-trapped single airborne chemical droplet. <i>Optics Letters</i> , 2017, 42, 5113.	3.3	13
13	Optical-Trapping Laser Techniques for Characterizing Airborne Aerosol Particles and Its Application in Chemical Aerosol Study. <i>Micromachines</i> , 2021, 12, 466.	2.9	13
14	Where is the machine looking? Locating discriminative light-scattering features by class-activation mapping. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 247, 106936.	2.3	11
15	Case of the Missing Isomer: Pathways for Molecular Elimination in the Photoinduced Decomposition of 1,1-Dibromoethane. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11915-11923.	2.5	10
16	Changes of fluorescence spectra and viability from aging aerosolized <i>E. coli</i> cells under various laboratory-controlled conditions in an advanced rotating drum. <i>Aerosol Science and Technology</i> , 2019, 53, 1261-1276.	3.1	10
17	Photoinduced Electron Transfer in a Prototypical Mulliken Donor-Acceptor Complex: C <sub>2</sub> H <sub>4</sub> ·Br <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2618-2621.	4.6	9
18	Concerted and sequential pathways of proton-coupled electron transfer in hydrogen halide elimination. <i>Chemical Physics Letters</i> , 2013, 556, 35-38.	2.6	8

#	ARTICLE	IF	CITATIONS
19	Photoinduced Electron Transfer in Donor-acceptor Complexes of Ethylene with Molecular and Atomic Iodine. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6838-6845.	2.5	8
20	Study of single airborne particle using laser-trapped submicron position-resolved temporal Raman spectroscopy. <i>Chemical Physics Letters</i> , 2018, 706, 255-260.	2.6	8
21	Matrix isolation and computational studies of the CF <sub>2</sub> I radical. <i>Chemical Physics Letters</i> , 2010, 496, 68-73.	2.6	7
22	Pulsed Jet Discharge Matrix Isolation and Computational Study of Bromine Atom Complexes: Br-BrXCH <sub>2</sub> (X = H, Cl, Br). <i>Journal of Physical Chemistry A</i> , 2011, 115, 9820-9827.	2.5	7
23	Probing radical pathways in electrophilic addition of halogens: Classical vs. bridged intermediates. <i>Chemical Physics Letters</i> , 2012, 554, 86-89.	2.6	7
24	Opto-aerodynamic focusing of aerosol particles. <i>Aerosol Science and Technology</i> , 2018, 52, 13-18.	3.1	7
25	Spectroscopic and computational studies of matrix-isolated iso-CXBr <sub>3</sub> (X=F, Cl, Br): Structure, properties, and photochemistry of substituted iso-tribromomethanes. <i>Journal of Molecular Structure</i> , 2012, 1025, 61-68.	3.6	6
26	Pulsed-jet discharge matrix isolation and computational study of CX <sub>2</sub> Br <sup>+</sup> (X=H, F). <i>Chemical Physics Letters</i> , 2010, 484, 214-218.	2.6	3
27	Active, controlled circular, and spin-rotational movement of optically trapped airborne micro-particles. <i>Optics Letters</i> , 2021, 46, 5332.	3.3	2
28	On the electronic spectroscopy of the iso-polyhalomethanes. <i>Chemical Physics Letters</i> , 2012, 551, 64-67.	2.6	1
29	Measurements of elastic light-scattering patterns and images of single, oriented, optically trapped particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 287, 108223.	2.3	1