Tarek Trabelsi

List of Publications by Year
in descending order

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63	582	687363 13	794594 19
papers	citations	h-index	g-index

65	65	65	458
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gas-Phase Photolysis of Hg(I) Radical Species: A New Atmospheric Mercury Reduction Process. Journal of the American Chemical Society, 2019, 141, 8698-8702.	13.7	40
2	Parent Thioketene Sâ€Oxide H₂CCSO: Gasâ€Phase Generation, Structure, and Bonding Analysis. Chemistry - A European Journal, 2017, 23, 16566-16573.	3.3	39
3	Is AlOH the Astrochemical Reservoir Molecule of AlO?: Insights from Excited Electronic States. Astrophysical Journal, 2018, 863, 139.	4.5	25
4	Spectroscopic investigation of [Al,N,C,O] refractory molecules. Journal of Chemical Physics, 2019, 151, 244303.	3.0	25
5	Capture of the Sulfur Monoxideâ€“Hydroxyl Radical Complex. Journal of the American Chemical Society, 2020, 142, 2175-2179.	13.7	23
6	Mechanistic study of the photoexcitation, photoconversion, and photodissociation of CS2. Journal of Chemical Physics, 2018, 149, 064304.	3.0	19
7	Phenylsulfinyl Radical: Gas-Phase Generation, Photoisomerization, and Oxidation. Journal of the American Chemical Society, 2018, 140, 9972-9978.	13.7	18
8	Heterocumulene Sulfinyl Radical OCNSO. Angewandte Chemie - International Edition, 2017, 56, 2140-2144.	13.8	17
9	Hydrogen Sulfide as a Scavenger of Sulfur Atomic Cation. Journal of Physical Chemistry A, 2018, 122, 4983-4987.	2.5	16
10	Caged Nitric Oxideâ€“Thiyl Radical Pairs. Journal of the American Chemical Society, 2019, 141, 3361-3365.	13.7	16
11	Photochemistry and Non-adiabatic Photodynamics of the HOSO Radical. Journal of the American Chemical Society, 2021, 143, 10836-10841.	13.7	16
12	The Trifluoromethyl Sulfinyl and Oxathiyl Radicals. Chemistry - A European Journal, 2018, 24, 1505-1508.	3.3	15
13	The influence of iodine on the Antarctic stratospheric ozone hole. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	15
14	Vibrational memory in quantum localized states. Physical Review A, 2016, 93, .	2.5	14
15	Can Urea Be a Seed for Aerosol Particle Formation in Air?. Journal of Physical Chemistry A, 2018, 122, 3261-3269.	2.5	14
16	Photochemistry of HOSO radical in the gas phase. Journal of Chemical Physics, 2019, 151, 111103.	3.0	13
17	Electronic structure of NSOâ^' and SNOâ^' anions: Stability, electron affinity, and spectroscopic properties. Journal of Chemical Physics, 2015, 143, 164301.	3.0	12
18	Anharmonic Frequencies and Spectroscopic Constants of OAlOH and AlOH: Strong Bonding but Unhindered Motion. Journal of Physical Chemistry A, 2020, 124, 8834-8841.	2.5	12

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19	Neutron Diffraction Study of Significant sp³ and sp² Câ€“H Bond Shortening in a Fluorinated Pyridinium Saccharinate. Journal of the American Chemical Society, 2021, 143, 5550-5557.	13.7	12
20	Characterization and reactivity of the weakly bound complexes of the [H, N, S]â^' anionic system with astrophysical and biological implications. Journal of Chemical Physics, 2015, 143, 034303.	3.0	11
21	HNS+ and HSN+ cations: Electronic states, spin-rovibronic spectroscopy with planetary and biological implications. Journal of Chemical Physics, 2016, 145, 084307.	3.0	11
22	How Does the Central Atom Substitution Impact the Properties of a Criegee Intermediate? Insights from Multireference Calculations. Journal of the American Chemical Society, 2017, 139, 15446-15449.	13.7	10
23	Spectroscopy and Stability of AlOP: A Possible Progenitor of Interstellar Metal. Journal of Physical Chemistry A, 2019, 123, 463-470.	2.5	10
24	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. Angewandte Chemie - International Edition, 2020, 59, 21949-21953.	13.8	10
25	Photochemistry of HOSO₂ and SO₃ and Implications for the Production of Sulfuric Acid. Journal of the American Chemical Society, 2021, 143, 18794-18802.	13.7	10
26	Photoinduced Sulfurâ€“Nitrogen Bond Rotation and Thermal Nitrogen Inversion in Heterocumulene OSNSO. Journal of the American Chemical Society, 2018, 140, 1231-1234.	13.7	9
27	On the role of HNS and HSN as light-sensitive NO-donors for delivery in biological media. Journal of Chemical Physics, 2015, 143, 134301.	3.0	8
28	HIO_xâ€“IONO₂ Dynamics at the Airâ€“Water Interface: Revealing the Existence of a Halogen Bond at the Atmospheric Aerosol Surface. Journal of the American Chemical Society, 2020, 142, 12467-12477.	13.7	8
29	High-level Ab Initio Studies of the Spectroscopic Properties of Triatomic [Al, S, O]^x (x = 0,) Tj ETQq1 1 0.784314 rgBT /Ov	4.5	8
30	Spectroscopic Characterization of HSO₂^{â€¢} and HOSO^{â€¢} Intermediates Involved in SO₂ Geoengineering. Journal of Physical Chemistry A, 2021, 125, 10615-10621.	2.5	8
31	Cold collisions of SHâ^' with He: Potential energy surface and rate coefficients. Journal of Chemical Physics, 2017, 147, 124301.	3.0	7
32	Substituent effects on the spectroscopic properties of Criegee intermediates. Journal of Chemical Physics, 2017, 147, 164303.	3.0	7
33	Rotational relaxation of AlO+(1Î£+) in collision with He. Monthly Notices of the Royal Astronomical Society, 2018, 475, 783-787.	4.4	7
34	Photochemistry of OPN: Formation of Cyclic PON and Reversible Combination with Carbon Monoxide. Chemistry - A European Journal, 2018, 24, 14627-14630.	3.3	7
35	Spectroscopy and characterization of AlNX (X = O and S): Triatomic circumstellar molecules. Journal of Chemical Physics, 2019, 150, 124306.	3.0	7
36	Spectroscopic characterization of two peroxyl radicals during the O2-oxidation of the methylthio radical. Communications Chemistry, 2022, 5, .	4.5	7

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37	The hypothiocyanite radical OSCN and its isomers. Physical Chemistry Chemical Physics, 2017, 19, 16713-16720.	2.8	6
38	Electronic and spectroscopic characterizations of SNP isomers. Journal of Chemical Physics, 2018, 148, 054305.	3.0	6
39	Molecular oxygen generation from the reaction of water cations with oxygen atoms. Journal of Chemical Physics, 2019, 150, 201103.	3.0	6
40	Heterocumulene Sulfinyl Radical OCNSO. Angewandte Chemie, 2017, 129, 2172-2176.	2.0	5
41	Spectroscopic Identification of H₂NSO and synâ€•and antiâ€HNSOH Radicals. Angewandte Chemie - International Edition, 2018, 57, 7513-7517.	13.8	4
42	Spectroscopic Characterization of the First and Second Excited States of the HOSO Radical. Journal of Physical Chemistry A, 2021, 125, 6254-6262.	2.5	4
43	Dihalogenated Methylperoxy Radicals: Spectroscopic Characterization and Photodecomposition by Release of HO .. Chemistry - A European Journal, 2020, 26, 2817-2820.	3.3	4
44	Spectroscopic Properties Relevant to Astronomical and Laboratory Detection of MCH and MCH⁺ (M = Al, Mg). Astrophysical Journal, 2022, 924, 139.	4.5	4
45	On the gas-phase formation of the HCO^{â^'} anion: accurate quantum study of the H^{â^'} + CO radiative association and HCO radiative electron attachment. Faraday Discussions, 2018, 212, 101-116.	3.2	3
46	Spectroscopic identification of the â€¢SSNO isomers. Journal of Chemical Physics, 2020, 153, 094303.	3.0	3
47	Mechanisms of Acid-Promoted N₂ and N₂O Generation from NH₂NO and NH₂NO₂. Journal of Physical Chemistry A, 2020, 124, 7575-7584.	2.5	3
48	Spectroscopic characterization of the first excited state and photochemistry of the HO3 radical. Journal of Chemical Physics, 2020, 152, 064304.	3.0	3
49	Experimental and computational investigation of vinoxy and 1-methylvinoxy radicals from the unimolecular decay of alkyl-substituted Criegee intermediates. Chemical Physics Letters, 2020, 751, 137478.	2.6	3
50	Explorer les liens entre agriculture et sÃ©curitÃ© alimentaireâ€‰: une enquÃªte auprÃ¨s des femmes du gouvernorat de Sidi-Bouzid en Tunisie. Cahiers Agricultures, 2018, 27, 15501.	0.9	3
51	Matrix-isolated trifluoromethylthiyl radical: sulfur atom transfer, isomerization and oxidation reactions. Chemical Communications, 2021, 57, 12143-12146.	4.1	3
52	Astrochemical significance and spectroscopy of tetratomic [H,P,S,O]. Astronomy and Astrophysics, 0, , .	5.1	3
53	Rotational (de-)excitation of NS+(X1Î£+) by collision with He at low temperature. Monthly Notices of the Royal Astronomical Society, 2018, 480, 4259-4264.	4.4	2
54	Theoretical rovibrational characterization of HAlNP: Weak bonding but strong intensities. Journal of Molecular Spectroscopy, 2021, 377, 111422.	1.2	2

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55	Astrochemical Significance of the P + SO Reaction: Spectroscopic Characterization of SPO, PSO, and SOP Isomers. Astrophysical Journal, 2021, 909, 122.	4.5	2
56	AlOSO: Spectroscopy and Structure of a New Group of Astrochemical Molecules. Astrophysical Journal, 2022, 930, 29.	4.5	2
57	Toward the detection of the triatomic negative ion SPNâ¯: Spectroscopy and potential energy surfaces. Journal of Chemical Physics, 2018, 148, 164305.	3.0	1
58	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. Angewandte Chemie, 2020, 132, 22133-22137.	2.0	1
59	Energetic Properties, Spectroscopy, and Reactivity of NF3O. Journal of Physical Chemistry A, 2020, 124, 5237-5245.	2.5	1
60	Photochemistry from low-lying states of HOSO+. Journal of Chemical Physics, 2020, 152, 134302.	3.0	1
61	Photochemistry of NH2NO2 and implications for chemistry in the atmosphere. Journal of Chemical Physics, 2021, 154, 194301.	3.0	1
62	Spectroscopic Identification of H₂NSO and synâ€•and antiâ€HNSOH Radicals. Angewandte Chemie, 2018, 130, 7635-7639.	2.0	0
63	RÃ¼cktitelbild: The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide (Angew. Chem. 49/2020). Angewandte Chemie, 2020, 132, 22452-22452.	2.0	0