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	Spectroscopic Properties Relevant to Astronomical and Laboratory Detection of MCH and MCH⁺ (M = Al, Mg). Astrophysical Journal, 2022, 924, 139.	4.5	4
2	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
3	Spectroscopic characterization of two peroxyl radicals during the O2-oxidation of the methylthio radical. Communications Chemistry, 2022, 5, .	4.5	7
4	AlOSO: Spectroscopy and Structure of a New Group of Astrochemical Molecules. Astrophysical Journal, 2022, 930, 29.	4.5	2
5	Theoretical rovibrational characterization of HAlNP: Weak bonding but strong intensities. Journal of Molecular Spectroscopy, 2021, 377, 111422.	1.2	2
6	Astrochemical Significance of the P + SO Reaction: Spectroscopic Characterization of SPO, PSO, and SOP Isomers. Astrophysical Journal, 2021, 909, 122.	4.5	2
7	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
8	Photochemistry of NH2NO2 and implications for chemistry in the atmosphere. Journal of Chemical Physics, 2021, 154, 194301.	3.0	1
9	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
10	Photochemistry and Non-adiabatic Photodynamics of the HOSO Radical. Journal of the American Chemical Society, 2021, 143, 10836-10841.	13.7	16
11	Matrix-isolated trifluoromethylthiyl radical: sulfur atom transfer, isomerization and oxidation reactions. Chemical Communications, 2021, 57, 12143-12146.	4.1	3
12	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
13	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
14	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. Angewandte Chemie - International Edition, 2020, 59, 21949-21953.	13.8	10
15	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
16	RÃ¼cktitelbild: The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide (Angew. Chem. 49/2020). Angewandte Chemie, 2020, 132, 22452-22452.	2.0	0
17	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. Angewandte Chemie, 2020, 132, 22133-22137.	2.0	1
18	Spectroscopic identification of the â€¢SSNO isomers. Journal of Chemical Physics, 2020, 153, 094303.	3.0	3

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19	Mechanisms of Acid-Promoted N₂ and N₂O Generation from NH₂NO and NH₂NO₂. Journal of Physical Chemistry A, 2020, 124, 7575-7584.	2.5	3
20	Energetic Properties, Spectroscopy, and Reactivity of NF3O. Journal of Physical Chemistry A, 2020, 124, 5237-5245.	2.5	1
21	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
22	Spectroscopic characterization of the first excited state and photochemistry of the HO3 radical. Journal of Chemical Physics, 2020, 152, 064304.	3.0	3
23	Capture of the Sulfur Monoxideâ€“Hydroxyl Radical Complex. Journal of the American Chemical Society, 2020, 142, 2175-2179.	13.7	23
24	Photochemistry from low-lying states of HOSO+. Journal of Chemical Physics, 2020, 152, 134302.	3.0	1
25	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
26	Dihalogenated Methylperoxy Radicals: Spectroscopic Characterization and Photodecomposition by Release of HO .. Chemistry - A European Journal, 2020, 26, 2817-2820.	3.3	4
27	High-level Ab Initio Studies of the Spectroscopic Properties of Triatomic [Al, S, O]^x (x = 0,) Tj ETQq1 1 0.784314 rgBT /Over	4.5	8
28	Molecular oxygen generation from the reaction of water cations with oxygen atoms. Journal of Chemical Physics, 2019, 150, 201103.	3.0	6
29	Photochemistry of HOSO radical in the gas phase. Journal of Chemical Physics, 2019, 151, 111103.	3.0	13
30	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
31	Spectroscopy and characterization of AlNX (X = O and S): Triatomic circumstellar molecules. Journal of Chemical Physics, 2019, 150, 124306.	3.0	7
32	Caged Nitric Oxideâ€“Thiyl Radical Pairs. Journal of the American Chemical Society, 2019, 141, 3361-3365.	13.7	16
33	Spectroscopic investigation of [Al,N,C,O] refractory molecules. Journal of Chemical Physics, 2019, 151, 244303.	3.0	25
34	Spectroscopy and Stability of AlOP: A Possible Progenitor of Interstellar Metal. Journal of Physical Chemistry A, 2019, 123, 463-470.	2.5	10
35	Can Urea Be a Seed for Aerosol Particle Formation in Air?. Journal of Physical Chemistry A, 2018, 122, 3261-3269.	2.5	14
36	Spectroscopic Identification of H₂NSO and synâ€•and antiâ€HNSOH Radicals. Angewandte Chemie - International Edition, 2018, 57, 7513-7517.	13.8	4

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37	Electronic and spectroscopic characterizations of SNP isomers. Journal of Chemical Physics, 2018, 148, 054305.	3.0	6
38	Rotational relaxation of AlO+(1Î£+) in collision with He. Monthly Notices of the Royal Astronomical Society, 2018, 475, 783-787.	4.4	7
39	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
40	Spectroscopic Identification of H₂NSO and synâ€•and antiâ€HNSOH Radicals. Angewandte Chemie, 2018, 130, 7635-7639.	2.0	0
41	The Trifluoromethyl Sulfinyl and Oxathiyl Radicals. Chemistry - A European Journal, 2018, 24, 1505-1508.	3.3	15
42	Hydrogen Sulfide as a Scavenger of Sulfur Atomic Cation. Journal of Physical Chemistry A, 2018, 122, 4983-4987.	2.5	16
43	Toward the detection of the triatomic negative ion SPNâ¯: Spectroscopy and potential energy surfaces. Journal of Chemical Physics, 2018, 148, 164305.	3.0	1
44	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
45	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
46	Phenylsulfinyl Radical: Gas-Phase Generation, Photoisomerization, and Oxidation. Journal of the American Chemical Society, 2018, 140, 9972-9978.	13.7	18
47	Photochemistry of OPN: Formation of Cyclic PON and Reversible Combination with Carbon Monoxide. Chemistry - A European Journal, 2018, 24, 14627-14630.	3.3	7
48	Is AlOH the Astrochemical Reservoir Molecule of AlO?: Insights from Excited Electronic States. Astrophysical Journal, 2018, 863, 139.	4.5	25
49	Mechanistic study of the photoexcitation, photoconversion, and photodissociation of CS2. Journal of Chemical Physics, 2018, 149, 064304.	3.0	19
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	Heterocumulene Sulfinyl Radical OCNSO. Angewandte Chemie - International Edition, 2017, 56, 2140-2144.	13.8	17
52	Heterocumulene Sulfinyl Radical OCNSO. Angewandte Chemie, 2017, 129, 2172-2176.	2.0	5
53	Cold collisions of SHâ¯ with He: Potential energy surface and rate coefficients. Journal of Chemical Physics, 2017, 147, 124301.	3.0	7
54	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

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55	Parent Thioketene Sâ€Oxide H₂CCSO: Gasâ€Phase Generation, Structure, and Bonding Analysis. Chemistry - A European Journal, 2017, 23, 16566-16573.	3.3	39
56	The hypothiocyanite radical OSCN and its isomers. Physical Chemistry Chemical Physics, 2017, 19, 16713-16720.	2.8	6
57	Substituent effects on the spectroscopic properties of Criegee intermediates. Journal of Chemical Physics, 2017, 147, 164303.	3.0	7
58	HNS+ and HSN+ cations: Electronic states, spin-rovibronic spectroscopy with planetary and biological implications. Journal of Chemical Physics, 2016, 145, 084307.	3.0	11
59	Vibrational memory in quantum localized states. Physical Review A, 2016, 93, .	2.5	14
60	Electronic structure of NSOâ^' and SNOâ^' anions: Stability, electron affinity, and spectroscopic properties. Journal of Chemical Physics, 2015, 143, 164301.	3.0	12
61	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
62	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
63	Astrochemical significance and spectroscopy of tetratomic [H,P,S,O]. Astronomy and Astrophysics, 0, , .	5.1	3