Alexandre Bergantini

List of Publications by Year
in descending order

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33 papers	591 citations	535685 17 h-index	685536 24 g-index
34 all docs	34 docs citations	34 times ranked	587 citing authors

#	Article	IF	Citations
1	Infrared Spectroscopic Study on Swift-Ion Irradiation of Solid N₂Oâ€“H₂O Samples: Synthesis of Nâ€“O Bearing Species in Astrophysical Ices. Journal of Physical Chemistry A, 2022, 126, 2007-2017.	1.1	6
2	On the synthesis of Nâ€“O bearing species in astrophysical ices â€“ an infrared spectroscopic study using heavy-ion irradiation of solid N2:CO samples. Monthly Notices of the Royal Astronomical Society, 2022, 511, 31-41.	1.6	2
3	Origin of ammoniated phyllosilicates on dwarf planet Ceres and asteroids. Nature Communications, 2021, 12, 2690.	5.8	2
4	A Photoionization Mass Spectrometry Investigation into Complex Organic Molecules Formed in Interstellar Analog Ices of Carbon Monoxide and Water Exposed to Ionizing Radiation. Astrophysical Journal, 2021, 916, 74.	1.6	9
5	Formation of phosphine imide (HNî€PH₃) and its phosphinous amide (H₂Nâ€“PH₂) isomer. Chemical Communications, 2021, 57, 4958-4961.	2.2	6
6	Rapid Radicalâ€“Radical Induced Explosive Desorption of Ice-coated Interstellar Nanoparticles. Astrophysical Journal, 2021, 920, 73.	1.6	5
7	The elusive cyclotriphosphazene molecule and its Dewar benzeneâ€“type valence isomer (P ₃) Tj ETQq1 1 0.784314 rgB	4.7	22
8	Radiolysis of NH3:CO ice mixtures â€“ implications for Solar system and interstellar ices. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2162-2172.	1.6	8
9	An Experimental and Theoretical Investigation into the Formation of Ketene (H₂CCO) and Ethynol (HCCOH) in Interstellar Analog Ices. Astrophysical Journal, 2020, 896, 88.	1.6	23
10	Untangling the Formation of Methoxymethanol (CH₃OCH₂OH) and Dimethyl Peroxide (CH₃OOCH₃) in Star-forming Regions. Astrophysical Journal, 2019, 881, 156.	1.6	24
11	Origin of alkylphosphonic acids in the interstellar medium. Science Advances, 2019, 5, eaaw4307.	4.7	14
12	Formation of Glyoxylic Acid in Interstellar Ices: A Key Entry Point for Prebiotic Chemistry. Angewandte Chemie - International Edition, 2019, 58, 5663-5667.	7.2	29
13	Formation of Glyoxylic Acid in Interstellar Ices: A Key Entry Point for Prebiotic Chemistry. Angewandte Chemie, 2019, 131, 5719-5723.	1.6	2
14	On the Synthesis of Chocolate Flavonoids (Propanols, Butanals) in the Interstellar Medium. ChemPhysChem, 2018, 19, 556-560.	1.0	11
15	A Mechanistical Study on the Formation of Dimethyl Ether (CH₃OCH₃) and Ethanol (CH₃CH₂OH) in Methanol-containing Ices and Implications for the Chemistry of Star-forming Regions. Astrophysical Journal, 2018, 852, 70.	1.6	41
16	An interstellar synthesis of phosphorus oxoacids. Nature Communications, 2018, 9, 3851.	5.8	33
17	Constraining the Molecular Complexity in the Interstellar Mediumâ€”The Formation of Ethyl Methyl Ether (CH₃OCH₂CH₃) in Star-forming Regions. Astrophysical Journal, 2018, 859, 59.	1.6	8
18	A Photoionization Reflectron Time-of-flight Mass Spectrometric Study on the Formation of Acetic Acid (CH₃COOH) in Interstellar Analog Ices. Astrophysical Journal, 2018, 862, 140.	1.6	21

#	Article	IF	Citations
19	A Vacuum Ultraviolet Photoionization Study on the Formation of N-methyl Formamide (HCONHCH₃) in Deep Space: A Potential Interstellar Molecule with a Peptide Bond. Astrophysical Journal, 2018, 862, 84.	1.6	22
20	A Combined Experimental and Theoretical Study on the Formation of Interstellar Propylene Oxide (CH₃CHCH₂O)â€"A Chiral Molecule. Astrophysical Journal, 2018, 860, 108.	1.6	54
21	Electron Radiolysis of Ammonium Perchlorate: A Reflectron Time-of-Flight Mass Spectrometric Study. Journal of Physical Chemistry A, 2017, 121, 3879-3890.	1.1	23
22	On the Formation of the C₂H₆O Isomers Ethanol (C₂H₅OH) and Dimethyl Ether (CH₃OCH₃) in Star-forming Regions. Astrophysical Journal, 2017, 841, 96.	1.6	47
23	Degradation of Adenine on the Martian Surface in the Presence of Perchlorates and Ionizing Radiation: A Reflectron Time-of-flight Mass Spectrometric Study. Astrophysical Journal, 2017, 838, 84.	1.6	14
24	Formation of Methylamine and Ethylamine in Extraterrestrial Ices and Their Role as Fundamental Building Blocks of Proteinogenic Î±-amino Acids. Astrophysical Journal, 2017, 845, 83.	1.6	38
25	In Situ Detection of Organics in the Comet 67P/Churyumov-Gerasimenko. CheM, 2016, 1, 824-826.	5.8	4
26	IN SITU DETECTION OF CHLORINE DIOXIDE (ClO₂) IN THE RADIOLYSIS OF PERCHLORATES AND IMPLICATIONS FOR THE STABILITY OF ORGANICS ON MARS. Astrophysical Journal, 2016, 832, 164.	1.6	21
27	RADIOLYSIS OF NITROGEN AND WATER-ICE MIXTURE BY FAST IONS: IMPLICATIONS FOR KUIPER BELT OBJECTS. Astrophysical Journal, 2015, 810, 156.	1.6	20
28	Triggering photochemical processes in frozen extraterrestrial worlds by soft X-rays. Journal of Physics: Conference Series, 2015, 635, 112104.	0.3	0
29	THE EFFECT OF BROADBAND SOFT X-RAYS IN SO₂-CONTAINING ICES: IMPLICATIONS ON THE PHOTOCHEMISTRY OF ICES TOWARD YOUNG STELLAR OBJECTS. Astrophysical Journal, 2015, 811, 151.	1.6	29
30	Processing of formic acid-containing ice by heavy and energetic cosmic ray analogues. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2720-2727.	1.6	19
31	Processing of analogues of plume fallout in cold regions of Enceladus by energetic electrons. Astronomy and Astrophysics, 2014, 570, A120.	2.1	23
32	Desorption from methanol ice induced by electrons from solar wind or magnetospheres. Advances in Space Research, 2013, 52, 1201-1205.	1.2	4
33	HABEBEE: Habitability of Eyeball-Exo-Earths. Astrobiology, 2013, 13, 309-314.	1.5	7