

Jan Hendrik Bredehøft

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,907
citations

393982

19
h-index

253896

43
g-index

49
all docs

49
docs citations

49
times ranked

2126
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic compounds on comet 67P/Churyumov-Gerasimenko revealed by COSAC mass spectrometry. <i>Science</i> , 2015, 349, aab0689.	6.0	376
2	What makes a planet habitable?. <i>Astronomy and Astrophysics Review</i> , 2009, 17, 181-249.	9.1	281
3	Identification of diamino acids in the Murchison meteorite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9182-9186.	3.3	188
4	Asymmetric Vacuum UV photolysis of the Amino Acid Leucine in the Solid State. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5630-5634.	7.2	121
5	Water-rich planets: How habitable is a water layer deeper than on Earth?. <i>Icarus</i> , 2016, 277, 215-236.	1.1	98
6	Urea, Glycolic Acid, and Glycerol in an Organic Residue Produced by Ultraviolet Irradiation of Interstellar/Pre-Cometary Ice Analogs. <i>Astrobiology</i> , 2010, 10, 245-256.	1.5	95
7	Circular Dichroism of Amino Acids in the Vacuum-Ultraviolet Region. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7799-7802.	7.2	75
8	The effects of circularly polarized light on amino acid enantiomers produced by the UV irradiation of interstellar ice analogs. <i>Astronomy and Astrophysics</i> , 2006, 457, 741-751.	2.1	73
9	Photochirogenesis: Photochemical models on the absolute asymmetric formation of amino acids in interstellar space. <i>Physics of Life Reviews</i> , 2011, 8, 307-330.	1.5	69
10	Anisotropy Spectra of Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4484-4487.	7.2	57
11	Enantiomeric separation of complex organic molecules produced from irradiation of interstellar/circumstellar ice analogs. <i>Advances in Space Research</i> , 2007, 39, 400-404.	1.2	47
12	Photolysis of <i>rac</i> -Leucine with Circularly Polarized Synchrotron Radiation. <i>Chemistry and Biodiversity</i> , 2010, 7, 1651-1659.	1.0	33
13	Photochirogenesis: Photochemical Models on the Origin of Biomolecular Homochirality. <i>Symmetry</i> , 2010, 2, 1055-1080.	1.1	27
14	Understanding Photochirogenesis: Solvent Effects on Circular Dichroism and Anisotropy Spectroscopy. <i>Chirality</i> , 2014, 26, 373-378.	1.3	25
15	Functionalization of a Self-Assembled Monolayer Driven by Low-Energy Electron Exposure. <i>Langmuir</i> , 2012, 28, 367-376.	1.6	23
16	COSAC prepares for sampling and in situ analysis of cometary matter from comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2014, 103, 318-330.	0.9	23
17	Chiroptical Properties of Amino Acids: A Density Functional Theory Study. <i>Symmetry</i> , 2010, 2, 935-949.	1.1	22
18	Low-Energy Electron-Induced Hydroamination Reactions between Different Amines and Olefins. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6922-6933.	1.5	22

#	ARTICLE	IF	CITATIONS
19	Electron-Induced Synthesis of Formamide in Condensed Mixtures of Carbon Monoxide and Ammonia. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 50-59.	1.2	20
20	Anisotropy Spectra for Enantiomeric Differentiation of Biomolecular Building Blocks. <i>Topics in Current Chemistry</i> , 2013, 341, 271-299.	4.0	18
21	Formation of Formic Acid, Formaldehyde, and Carbon Dioxide by Electron-Induced Chemistry in Ices of Water and Carbon Monoxide. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1974-1986.	1.2	18
22	Electron-Induced Reactions of MeCpPtMe ₃ Investigated by HREELS. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13282-13286.	1.5	17
23	Chiroptical properties of diamino carboxylic acids. <i>Chirality</i> , 2007, 19, 570-573.	1.3	16
24	Electron-Induced Hydration of an Alkene: Alternative Reaction Pathways. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4397-4400.	7.2	16
25	Reactions and anion desorption induced by low-energy electron exposure of condensed acetonitrile. <i>European Physical Journal D</i> , 2012, 66, 1.	0.6	15
26	Triple "a comet nucleus sample return mission. <i>Experimental Astronomy</i> , 2009, 23, 809-847.	1.6	14
27	Electron-Induced Processing of Methanol Ice. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 391-408.	1.2	12
28	Interpretation of COSAC mass spectrometer data acquired during Rosetta's Lutetia fly-by 10 July 2010. <i>Planetary and Space Science</i> , 2012, 66, 187-191.	0.9	10
29	Rosetta Mission: Electron Scattering Cross Sections "Data Needs and Coverage in BEAMDB Database. <i>Atoms</i> , 2017, 5, 46.	0.7	8
30	ESA's Cometary Mission Rosetta "Re "Characterization of the COSAC Mass Spectrometry Results. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
31	Modification of Polydimethylsiloxane Coatings by H ₂ RF Plasma, Xe ₂ * Excimer VUV Radiation, and Low-Energy Electron Beams. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1091-1101.	1.7	6
32	Electron-Induced Formation of Ethyl Methyl Ether in Condensed Mixtures of Methanol and Ethylene. <i>Journal of Physical Chemistry A</i> , 2019, 123, 37-47.	1.1	6
33	Decay of COSAC and Ptolemy mass spectra at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 600, A56.	2.1	5
34	Mechanisms of Electron-Induced Chemistry in Molecular Ices. <i>Atoms</i> , 2022, 10, 25.	0.7	4
35	Mechanisms of methyl formate production during electron-induced processing of methanol "carbon monoxide ices. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11649-11662.	1.3	3
36	Molecular synthesis in ices triggered by dissociative electron attachment to carbon monoxide. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	3

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37	COSAC's Only Gas Chromatogram Taken on Comet 67P/Churyumov-Gerasimenko. ChemPlusChem, 2022, 87, .	1.3	3
38	Electron-Induced Chemistry in the Condensed Phase. Atoms, 2019, 7, 33.	0.7	2
39	CO2: A Small Ubiquitous Molecule With a Lot of Astrochemical Debate Attached. Frontiers in Astronomy and Space Sciences, 2020, 7, .	1.1	2
40	ESAs Kometen-Mission Rosetta - Neu-Analyse der Daten des COSAC Massenspektrometers. Angewandte Chemie, 2022, 134, .	1.6	2
41	Thumbnail: ESAs Kometen-Mission Rosetta - Neu-Analyse der Daten des COSAC Massenspektrometers (Angew. Chem. 29/2022). Angewandte Chemie, 2022, 134, .	1.6	0