

Charles G Bardeen

List of Publications by Year in descending order

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86
papers

4,876
citations

92079

37
h-index

99504

67
g-index

105
all docs

105
docs citations

105
times ranked

8094
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the Importance of Nitrate-Containing Aerosols for the Asian Tropopause Aerosol Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2024, 129, .	3.3	0
2	Sudden Reduction of Antarctic Sea Ice Despite Cooling After Nuclear War. <i>Journal of Geophysical Research: Oceans</i> , 2023, 128, .	2.6	2
3	Simulating Southern Ocean Aerosol and Ice Nucleating Particles in the Community Earth System Model Version 2. <i>Journal of Geophysical Research D: Atmospheres</i> , 2023, 128, .	3.3	4
4	Measurement of the Higgs boson inclusive and differential fiducial production cross sections in the diphoton decay channel with pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2023, 2023, .	4.8	4
5	Climate, Variability, and Climate Sensitivity of "Middle Atmosphere" Chemistry Configurations of the Community Earth System Model Version 2, Whole Atmosphere Community Climate Model Version 6 (CESM2(WACCM6)). <i>Journal of Advances in Modeling Earth Systems</i> , 2023, 15, .	3.7	14
6	The Balance Between Heterogeneous and Homogeneous Nucleation of Ice Clouds Using CAM5/CARMA. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	6
7	On the stratospheric chemistry of midlatitude wildfire smoke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117325119.	7.6	53
8	Upper stratospheric ClO and HOCl trends (2005–2020): Aura Microwave Limb Sounder and model results. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4779-4799.	5.0	4
9	A New Ocean State After Nuclear War. <i>AGU Advances</i> , 2022, 3, .	6.2	15
10	Evidence for Secondary Ice Production in Southern Ocean Maritime Boundary Layer Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	14
11	Nuclear Ni \pm o response observed in simulations of nuclear war scenarios. <i>Communications Earth & Environment</i> , 2021, 2, .	6.7	17
12	Climate Impacts of COVID-19 Induced Emission Changes. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091805.	4.0	41
13	Evaluation of Cloud and Precipitation Simulations in CAM6 and AM4 Using Observations Over the Southern Ocean. <i>Earth and Space Science</i> , 2021, 8, e2020EA001241.	2.6	13
14	Influences of Recent Particle Formation on Southern Ocean Aerosol Variability and Low Cloud Properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033529.	3.3	43
15	Persistent Stratospheric Warming Due to 2019–2020 Australian Wildfire Smoke. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092609.	4.0	68
16	The climate impact of COVID-19-induced contrail changes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9405-9416.	5.0	19
17	Global climate disruption and regional climate shelters after the Toba supereruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.6	26
18	New Global Meteoric Smoke Observations From SOFIE: Insight Regarding Chemical Composition, Meteoric Influx, and Hemispheric Asymmetry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035007.	3.3	8

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19	Electrical assessment of brownmillerite-type calcium ferrite materials obtained by proteic sol-gel route and by solid-state reaction using mollusk shells. <i>Journal of Solid State Chemistry</i> , 2021, 299, 122172.	3.0	6
20	Extreme Ozone Loss Following Nuclear War Results in Enhanced Surface Ultraviolet Radiation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035079.	3.3	16
21	The packaging and clean method contribute to insulation failure of electrosurgical instruments. <i>Medicine (United States)</i> , 2021, 100, e27492.	1.1	3
22	Upper Troposphere Smoke Injection From Large Areal Fires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034332.	3.3	6
23	Marine wild-capture fisheries after nuclear war. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29748-29758.	7.6	18
24	How Well Do Large- ϵ Eddy Simulations and Global Climate Models Represent Observed Boundary Layer Structures and Low Clouds Over the Summertime Southern Ocean?. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002205.	3.7	29
25	Simulating Observations of Southern Ocean Clouds and Implications for Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032619.	3.3	46
26	Persisting volcanic ash particles impact stratospheric SO ₂ lifetime and aerosol optical properties. <i>Nature Communications</i> , 2020, 11, 4526.	13.2	60
27	A regional nuclear conflict would compromise global food security. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7071-7081.	7.6	81
28	Causes and Climatic Consequences of the Impact Winter at the Cretaceous-Paleogene Boundary. <i>Geophysical Research Letters</i> , 2020, 47, e60121.	4.0	42
29	The Potential Impact of Nuclear Conflict on Ocean Acidification. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086246.	4.0	7
30	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001882.	3.7	222
31	An Evaluation of the Representation of Tropical Tropopause Cirrus in the CESM/CARMA Model Using Satellite and Aircraft Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8659-8687.	3.3	4
32	Nuclear Winter Responses to Nuclear War Between the United States and Russia in the Whole Atmosphere Community Climate Model Version 4 and the Goddard Institute for Space Studies ModelE. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8522-8543.	3.3	68
33	How an India-Pakistan nuclear war could start—and have global consequences. <i>Bulletin of the Atomic Scientists</i> , 2019, 75, 273-279.	0.7	10
34	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	3.3	311
35	Variation of rill cross-sections with gravel and aggregating soil in the Dry-Hot Valley (SW China). <i>Modeling Earth Systems and Environment</i> , 2019, 5, 1239-1252.	3.3	9
36	Rapidly expanding nuclear arsenals in Pakistan and India portend regional and global catastrophe. <i>Science Advances</i> , 2019, 5, eaay5478.	10.9	50

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37	Efficient In-Cloud Removal of Aerosols by Deep Convection. <i>Geophysical Research Letters</i> , 2019, 46, 1061-1069.	4.0	53
38	Albedo-Ice Regression method for determining ice water content of polar mesospheric clouds using ultraviolet observations from space. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1755-1766.	3.1	6
39	Evaluation of the Mesospheric Polar Vortices in WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10626-10645.	3.3	13
40	Comment on "Climate Impact of a Regional Nuclear Weapon Exchange: An Improved Assessment Based on Detailed Source Calculations" by Reisner et al.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12953-12958.	3.3	10
41	Rituximab-Mediated Complement-Dependent Cytotoxicity Enhanced by Gemcitabine in Older Patients with Previously Rituximab-Treated Diffuse Large B-Cell Lymphoma: Study Protocol. <i>Kurume Medical Journal</i> , 2019, 66, 37-42.	0.3	1
42	Cloning and Expression of Lipopolysaccharide Elimination Protein (LEP) in Lactic Acid Bacteria. <i>Methods in Molecular Biology</i> , 2019, 1887, 175-187.	0.0	0
43	Development and Validation of the Whole Atmosphere Community Climate Model With Thermosphere and Ionosphere Extension (WACCM-X 2.0). <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 381-402.	3.7	244
44	Systemic swings in end-Permian climate from Siberian Traps carbon and sulfur outgassing. <i>Nature Geoscience</i> , 2018, 11, 949-954.	11.9	87
45	Stratospheric Aerosols, Polar Stratospheric Clouds, and Polar Ozone Depletion After the Mount Calbuco Eruption in 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,308.	3.3	33
46	Volcanic Radiative Forcing From 1979 to 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12491-12508.	3.3	97
47	Effects of the September 2005 Solar Flares and Solar Proton Events on the Middle Atmosphere in WACCM. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5747-5763.	2.4	19
48	The NASA Airborne Tropical Tropopause Experiment: High-Altitude Aircraft Measurements in the Tropical Western Pacific. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 129-143.	5.5	82
49	Meteoric smoke and H ₂ SO ₄ aerosols in the upper stratosphere and mesosphere. <i>Geophysical Research Letters</i> , 2017, 44, 1150-1157.	4.0	7
50	Development of a Polar Stratospheric Cloud Model Within the Community Earth System Model: Assessment of 2010 Antarctic Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,418.	3.3	11
51	On transient climate change at the Cretaceous~Paleogene boundary due to atmospheric soot injections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7415-E7424.	7.6	72
52	Meteoric Smoke Deposition in the Polar Regions: A Comparison of Measurements With Global Atmospheric Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,112.	3.3	19
53	Comparing simulated PSC optical properties with CALIPSO observations during the 2010 Antarctic winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1175-1202.	3.3	14
54	Evaluating hydrological processes in the Community Atmosphere Model Version 5 (CAM5) using stable isotope ratios of water. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 949-977.	3.7	99

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55	Constraints on Meteoric Smoke Composition and Meteoric Influx Using SOFIE Observations With Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13,495.	3.3	18
56	Impact of the January 2012 solar proton event on polar mesospheric clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9165-9173.	3.3	4
57	Extensive migration of young neurons into the infant human frontal lobe. <i>Science</i> , 2016, 354, .	20.9	313
58	Designing global climate and atmospheric chemistry simulations for 1 and 10 μ m diameter asteroid impacts using the properties of ejecta from the K-Pg impact. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13185-13212.	5.0	26
59	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7079-7087.	3.3	17
60	Global volcanic aerosol properties derived from emissions, 1990 μ 2014, using CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2332-2348.	3.3	194
61	Evaluations of tropospheric aerosol properties simulated by the community earth system model with a sectional aerosol microphysics scheme. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 865-914.	3.7	37
62	Description and evaluation of tropospheric chemistry and aerosols in the Community Earth System Model (CESM1.2). <i>Geoscientific Model Development</i> , 2015, 8, 1395-1426.	3.7	169
63	Valproic acid enhances neuronal differentiation of sympathoadrenal progenitor cells. <i>Molecular Psychiatry</i> , 2015, 20, 941-950.	8.2	27
64	A genome-wide association study of marginal zone lymphoma shows association to the HLA region. <i>Nature Communications</i> , 2015, 6, 5751.	13.2	59
65	Large-scale recent expansion of European patrilineages shown by population resequencing. <i>Nature Communications</i> , 2015, 6, 7152.	13.2	72
66	Perioperative and long-term renal functional outcomes of robotic versus laparoscopic partial nephrectomy: a multicenter matched-pair comparison. <i>World Journal of Urology</i> , 2015, 33, 1579-1584.	2.4	39
67	Development of a Polar Stratospheric Cloud Model within the Community Earth System Model using constraints on Type I PSCs from the 2010 μ 2011 Arctic winter. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 551-585.	3.7	18
68	Cloning, Expression and Characterization of a Novel Thermophilic Polygalacturonase from <i>Caldicellulosiruptor bescii</i> DSM 6725. <i>International Journal of Molecular Sciences</i> , 2014, 15, 5717-5729.	4.2	23
69	Review: Improving our knowledge of male mosquito biology in relation to genetic control programmes. <i>Acta Tropica</i> , 2014, 132, S2-S11.	2.0	84
70	Recent anthropogenic increases in SO ₂ from Asia have minimal impact on stratospheric aerosol. <i>Geophysical Research Letters</i> , 2013, 40, 999-1004.	4.0	91
71	Combining Spontaneous Polymerization and Click Reactions for the Synthesis of Polymer Brushes: A μ grafting Onto μ Approach. <i>Chemistry - A European Journal</i> , 2013, 19, 9710-9721.	3.9	26
72	Improved cirrus simulations in a general circulation model using CARMA sectional microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,679.	3.3	21

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73	The content and composition of meteoric smoke in mesospheric ice particles from SOFIE observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 84-85, 1-6.	1.7	67
74	Bcr/Abl Interferes with the Fanconi Anemia/BRCA Pathway: Implications in the Chromosomal Instability of Chronic Myeloid Leukemia Cells. <i>PLoS ONE</i> , 2010, 5, e15525.	2.5	20
75	Numerical simulations of the three-dimensional distribution of polar mesospheric clouds and comparisons with Cloud Imaging and Particle Size (CIPS) experiment and the Solar Occultation For Ice Experiment (SOFIE) observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51
76	First Satellite Observations of Meteoric Smoke in the Middle Atmosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	83
77	Where's the difficulty in standardized reading tests: The passage or the question?. <i>Behavior Research Methods</i> , 2008, 40, 1001-1015.	4.3	44
78	Numerical simulations of the three-dimensional distribution of meteoric dust in the mesosphere and upper stratosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	165
79	Consequences of Regional-Scale Nuclear Conflicts. <i>Science</i> , 2007, 315, 1224-1225.	20.9	52
80	Atmospheric effects and societal consequences of regional scale nuclear conflicts and acts of individual nuclear terrorism. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1973-2002.	5.0	84
81	Climatic consequences of regional nuclear conflicts. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2003-2012.	5.0	126
82	The Continuing Environmental Threat of Nuclear Weapons: Integrated Policy Responses. <i>Eos</i> , 2007, 88, 228.	0.1	4
83	Planetary statistics of the critical frequency of the ionospheric F 2 region during catastrophic earthquakes. <i>Geomagnetism and Aeronomy</i> , 2006, 46, 522-523.	0.8	0
84	Veterinary pharmacovigilance. Part 2. Veterinary pharmacovigilance in practice - the operation of a spontaneous reporting scheme in a European Union country - the UK, and schemes in other countries. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2005, 28, 149-170.	1.4	36
85	Kinetic screening of antibodies from crude hybridoma samples using Biacore. <i>Analytical Biochemistry</i> , 2004, 325, 301-307.	2.5	128
86	Localized antimicrobial peptide expression in human gingiva. <i>Journal of Periodontal Research</i> , 2001, 36, 285-294.	2.8	229