

# 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	Extensive migration of young neurons into the infant human frontal lobe. <i>Science</i> , 2016, 354, .	20.9	313
2	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	3.3	311
3	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
4	Localized antimicrobial peptide expression in human gingiva. <i>Journal of Periodontal Research</i> , 2001, 36, 285-294.	2.8	229
5	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
6	Global volcanic aerosol properties derived from emissions, 1990–2014, using CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2332-2348.	3.3	194
7	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
8	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
9	Kinetic screening of antibodies from crude hybridoma samples using Biacore. <i>Analytical Biochemistry</i> , 2004, 325, 301-307.	2.5	128
10	Climatic consequences of regional nuclear conflicts. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2003-2012.	5.0	126
11	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
12	Volcanic Radiative Forcing From 1979 to 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12491-12508.	3.3	97
13	Recent anthropogenic increases in SO <sub>2</sub> from Asia have minimal impact on stratospheric aerosol. <i>Geophysical Research Letters</i> , 2013, 40, 999-1004.	4.0	91
14	Systemic swings in end-Permian climate from Siberian Traps carbon and sulfur outgassing. <i>Nature Geoscience</i> , 2018, 11, 949-954.	11.9	87
15	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
16	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
17	First Satellite Observations of Meteoric Smoke in the Middle Atmosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	83
18	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

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19	A regional nuclear conflict would compromise global food security. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7071-7081.	7.6	81
20	Large-scale recent expansion of European patrilineages shown by population resequencing. Nature Communications, 2015, 6, 7152.	13.2	72
21	On transient climate change at the Cretaceous–Paleogene boundary due to atmospheric soot injections. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7415-E7424.	7.6	72
22	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. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8522-8543.	3.3	68
23	Persistent Stratospheric Warming Due to 2019–2020 Australian Wildfire Smoke. Geophysical Research Letters, 2021, 48, e2021GL092609.	4.0	68
24	The content and composition of meteoric smoke in mesospheric ice particles from SOFIE observations. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 84-85, 1-6.	1.7	67
25	Persisting volcanic ash particles impact stratospheric SO <sub>2</sub> lifetime and aerosol optical properties. Nature Communications, 2020, 11, 4526.	13.2	60
26	A genome-wide association study of marginal zone lymphoma shows association to the HLA region. Nature Communications, 2015, 6, 5751.	13.2	59
27	Efficient In-Cloud Removal of Aerosols by Deep Convection. Geophysical Research Letters, 2019, 46, 1061-1069.	4.0	53
28	On the stratospheric chemistry of midlatitude wildfire smoke. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117325119.	7.6	53
29	Consequences of Regional-Scale Nuclear Conflicts. Science, 2007, 315, 1224-1225.	20.9	52
30	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. Journal of Geophysical Research, 2010, 115, .	3.3	51
31	Rapidly expanding nuclear arsenals in Pakistan and India portend regional and global catastrophe. Science Advances, 2019, 5, eaay5478.	10.9	50
32	Simulating Observations of Southern Ocean Clouds and Implications for Climate. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032619.	3.3	46
33	Where’s the difficulty in standardized reading tests: The passage or the question?. Behavior Research Methods, 2008, 40, 1001-1015.	4.3	44
34	Influences of Recent Particle Formation on Southern Ocean Aerosol Variability and Low Cloud Properties. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033529.	3.3	43
35	Causes and Climatic Consequences of the Impact Winter at the Cretaceous–Paleogene Boundary. Geophysical Research Letters, 2020, 47, e60121.	4.0	42
36	Climate Impacts of COVID-19 Induced Emission Changes. Geophysical Research Letters, 2021, 48, e2020GL091805.	4.0	41

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37	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
38	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
39	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
40	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
41	How Well Do Large-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
42	Valproic acid enhances neuronal differentiation of sympathoadrenal progenitor cells. <i>Molecular Psychiatry</i> , 2015, 20, 941-950.	8.2	27
43	Combining Spontaneous Polymerization and Click Reactions for the Synthesis of Polymer Brushes: A Grafting Onto Approach. <i>Chemistry - A European Journal</i> , 2013, 19, 9710-9721.	3.9	26
44	Designing global climate and atmospheric chemistry simulations for 1 and 10 km 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
45	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
46	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
47	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
48	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
49	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
50	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
51	The climate impact of COVID-19-induced contrail changes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9405-9416.	5.0	19
52	Development of a Polar Stratospheric Cloud Model within the Community Earth System Model using constraints on Type I PSCs from the 2010-2011 Arctic winter. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 551-585.	3.7	18
53	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
54	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

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55	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7079-7087.	3.3	17
56	Nuclear NiÃ±o response observed in simulations of nuclear war scenarios. Communications Earth & Environment, 2021, 2, .	6.7	17
57	Extreme Ozone Loss Following Nuclear War Results in Enhanced Surface Ultraviolet Radiation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035079.	3.3	16
58	A New Ocean State After Nuclear War. AGU Advances, 2022, 3, .	6.2	15
59	Comparing simulated PSC optical properties with CALIPSO observations during the 2010 Antarctic winter. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1175-1202.	3.3	14
60	Evidence for Secondary Ice Production in Southern Ocean Maritime Boundary Layer Clouds. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	14
61	Climate, Variability, and Climate Sensitivity of â€œMiddle Atmosphereâ€•Chemistry Configurations of the Community Earth System Model Version 2, Whole Atmosphere Community Climate Model Version 6 (CESM2(WACCM6)). Journal of Advances in Modeling Earth Systems, 2023, 15, .	3.7	14
62	Evaluation of the Mesospheric Polar Vortices in WACCM. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10626-10645.	3.3	13
63	Evaluation of Cloud and Precipitation Simulations in CAM6 and AM4 Using Observations Over the Southern Ocean. Earth and Space Science, 2021, 8, e2020EA001241.	2.6	13
64	Development of a Polar Stratospheric Cloud Model Within the Community Earth System Model: Assessment of 2010 Antarctic Winter. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,418.	3.3	11
65	How an India-Pakistan nuclear war could startâ€”and have global consequences. Bulletin of the Atomic Scientists, 2019, 75, 273-279.	0.7	10
66	Comment on â€œClimate Impact of a Regional Nuclear Weapon Exchange: An Improved Assessment Based on Detailed Source Calculationsâ€•by Reisner et al.. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12953-12958.	3.3	10
67	Variation of rill cross-sections with gravel and aggregating soil in the Dry-Hot Valley (SW China). Modeling Earth Systems and Environment, 2019, 5, 1239-1252.	3.3	9
68	New Global Meteoric Smoke Observations From SOFIE: Insight Regarding Chemical Composition, Meteoric Influx, and Hemispheric Asymmetry. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035007.	3.3	8
69	Meteoric smoke and H<sub>2</sub>SO<sub>4</sub> aerosols in the upper stratosphere and mesosphere. Geophysical Research Letters, 2017, 44, 1150-1157.	4.0	7
70	The Potential Impact of Nuclear Conflict on Ocean Acidification. Geophysical Research Letters, 2020, 47, e2019GL086246.	4.0	7
71	Albedo-Ice Regression method for determining ice water content of polar mesospheric clouds using ultraviolet observations from space. Atmospheric Measurement Techniques, 2019, 12, 1755-1766.	3.1	6
72	Electrical assessment of brownmillerite-type calcium ferrite materials obtained by proteic sol-gel route and by solid-state reaction using mollusk shells. Journal of Solid State Chemistry, 2021, 299, 122172.	3.0	6

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73	Upper Troposphere Smoke Injection From Large Areal Fires. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034332.	3.3	6
74	The Balance Between Heterogeneous and Homogeneous Nucleation of Ice Clouds Using CAM5/CARMA. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
75	The Continuing Environmental Threat of Nuclear Weapons: Integrated Policy Responses. Eos, 2007, 88, 228.	0.1	4
76	Impact of the January 2012 solar proton event on polar mesospheric clouds. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9165-9173.	3.3	4
77	An Evaluation of the Representation of Tropical Tropopause Cirrus in the CESM/CARMA Model Using Satellite and Aircraft Observations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8659-8687.	3.3	4
78	Upper stratospheric ClO and HOCl trends (2005â€“2020): Aura Microwave Limb Sounder and model results. Atmospheric Chemistry and Physics, 2022, 22, 4779-4799.	5.0	4
79	Simulating Southern Ocean Aerosol and Ice Nucleating Particles in the Community Earth System Model Version 2. Journal of Geophysical Research D: Atmospheres, 2023, 128, .	3.3	4
80	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. Journal of High Energy Physics, 2023, 2023, .	4.8	4
81	The packaging and clean method contribute to insulation failure of electrosurgical instruments. Medicine (United States), 2021, 100, e27492.	1.1	3
82	Sudden Reduction of Antarctic Sea Ice Despite Cooling After Nuclear War. Journal of Geophysical Research: Oceans, 2023, 128, .	2.6	2
83	Rituximab-Mediated Complement-Dependent Cytotoxicity Enhanced by Gemcitabine in Older Patients with Previously Rituximab-Treated Diffuse Large B-Cell Lymphoma: Study Protocol. Kurume Medical Journal, 2019, 66, 37-42.	0.3	1
84	Planetary statistics of the critical frequency of the ionospheric F 2 region during catastrophic earthquakes. Geomagnetism and Aeronomy, 2006, 46, 522-523.	0.8	0
85	Cloning and Expression of Lipopolysaccharide Elimination Protein (LEP) in Lactic Acid Bacteria. Methods in Molecular Biology, 2019, 1887, 175-187.	0.0	0
86	Evaluating the Importance of Nitrate-Containing Aerosols for the Asian Tropopause Aerosol Layer. Journal of Geophysical Research D: Atmospheres, 2024, 129, .	3.3	0