

# Simon B Calcutt

## List of Publications by Year in descending order

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46  
papers

2,857  
citations

257429

24  
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302107

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all docs

47  
docs citations

47  
times ranked

2228  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diviner Lunar Radiometer Observations of Cold Traps in the Moon's South Polar Region. <i>Science</i> , 2010, 330, 479-482.	12.6	385
2	The Lunar Reconnaissance Orbiter Diviner Lunar Radiometer Experiment. <i>Space Science Reviews</i> , 2010, 150, 125-160.	8.1	309
3	Exploring The Saturn System In The Thermal Infrared: The Composite Infrared Spectrometer. <i>Space Science Reviews</i> , 2004, 115, 169-297.	8.1	275
4	SEIS: Insight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	8.1	238
5	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	12.9	207
6	Near-Infrared Spectroscopy and Spectral Mapping of Jupiter and the Galilean Satellites: Results from Galileo's Initial Orbit. <i>Science</i> , 1996, 274, 385-388.	12.6	155
7	Latitudinal variations of HCN, HC3N, and C2N2 in Titan's stratosphere derived from Cassini CIRS data. <i>Icarus</i> , 2006, 181, 243-255.	2.5	105
8	TITAN'S SURFACE BRIGHTNESS TEMPERATURES. <i>Astrophysical Journal</i> , 2009, 691, L103-L105.	4.5	102
9	Characteristics of Titan's stratospheric aerosols and condensate clouds from Cassini CIRS far-infrared spectra. <i>Icarus</i> , 2007, 191, 223-235.	2.5	95
10	Characterising Saturn's vertical temperature structure from Cassini/CIRS. <i>Icarus</i> , 2007, 189, 457-478.	2.5	80
11	Active upper-atmosphere chemistry and dynamics from polar circulation reversal on Titan. <i>Nature</i> , 2012, 491, 732-735.	27.8	80
12	Improved near-infrared methane band models and k-distribution parameters from 2000 to 9500 cm <sup>-1</sup> and implications for interpretation of outer planet spectra. <i>Icarus</i> , 2006, 181, 309-319.	2.5	69
13	<title>Cassini infrared Fourier spectroscopic investigation</title>. , 1996, , .		56
14	Analysis of Jupiter north equatorial belt hot spots in the 4-5 $\mu$ m range from Galileo/near-infrared mapping spectrometer observations: Measurements of cloud opacity, water, and ammonia. <i>Journal of Geophysical Research</i> , 1998, 103, 23023-23041.	3.3	56
15	Structure of Venus's atmosphere from modelling of night-side infrared spectra. <i>Nature</i> , 1988, 336, 360-362.	27.8	51
16	Methane absorption in the atmosphere of Jupiter from 1800 to 9500 cm and implications for vertical cloud structure. <i>Icarus</i> , 2005, 176, 255-271.	2.5	51
17	Infrared limb sounding of Titan with the Cassini Composite InfraRed Spectrometer: effects of the mid-IR detector spatial responses. <i>Applied Optics</i> , 2009, 48, 1912.	2.1	49
18	Network science landers for Mars. <i>Advances in Space Research</i> , 1999, 23, 1915-1924.	2.6	46

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19	The formation and evolution of Titan's winter polar vortex. <i>Nature Communications</i> , 2017, 8, 1586.	12.8	41
20	Composite infrared spectrometer (CIRS) on Cassini. <i>Applied Optics</i> , 2017, 56, 5274.	2.1	39
21	Tropospheric carbon monoxide concentrations and variability on Venus from Venus Express/VIRTIS observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37
22	Optical constants of ammonium hydrosulfide ice and ammonia ice. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 126.	2.1	35
23	The meridional phosphine distribution in Saturn's upper troposphere from Cassini/CIRS observations. <i>Icarus</i> , 2007, 188, 72-88.	2.5	35
24	Meridional variations in stratospheric acetylene and ethane in the southern hemisphere of the saturnian atmosphere as determined from Cassini/CIRS measurements. <i>Icarus</i> , 2007, 190, 556-572.	2.5	30
25	The Hera Saturn entry probe mission. <i>Planetary and Space Science</i> , 2016, 130, 80-103.	1.7	26
26	A self-levelling nano-g silicon seismometer. , 2014, , .		25
27	EVOLUTION OF THE FAR-INFRARED CLOUD AT TITAN'S SOUTH POLE. <i>Astrophysical Journal Letters</i> , 2015, 804, L34.	8.3	22
28	Band parameters for self-broadened ammonia gas in the range 0.74 to 5.24 $\mu$ m to support measurements of the atmosphere of the planet Jupiter. <i>Icarus</i> , 2008, 196, 612-624.	2.5	21
29	<title>VIRTIS: Visible Infrared Thermal Imaging Spectrometer for the Rosetta mission</title>. , 1996, , .		17
30	The solar reflected component in Jupiter's 5- $\mu$ m spectra from NIMS/Galileo observations. <i>Journal of Geophysical Research</i> , 1998, 103, 23043-23049.	3.3	15
31	Resonances of the InSight Seismometer on Mars. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2951-2963.	2.3	15
32	Upper limits on hydrogen halides in Jupiter from Cassini/CIRS observations. <i>Icarus</i> , 2004, 170, 237-241.	2.5	13
33	Analysis of gaseous ammonia (NH <sub>3</sub> ) absorption in the visible spectrum of Jupiter. <i>Icarus</i> , 2018, 302, 426-436.	2.5	11
34	Analysis of gaseous ammonia (NH <sub>3</sub> ) absorption in the visible spectrum of Jupiter - Update. <i>Icarus</i> , 2019, 321, 572-582.	2.5	11
35	Spectral Characterization of Bennu Analogs Using PASCAL: A New Experimental Set-Up for Simulating the Near-Surface Conditions of Airless Bodies. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006624.	3.6	10
36	Standing on Apollo's Shoulders: A Microseismometer for the Moon. <i>Planetary Science Journal</i> , 2021, 2, 36.	3.6	9

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37	Dual-telescope multi-channel thermal-infrared radiometer for outer planet fly-by missions. Acta Astronautica, 2016, 128, 628-639.	3.2	7
38	Jovian atmospheric studies with the Galileo near infrared mapping spectrometer: An update. Advances in Space Research, 1999, 23, 1623-1632.	2.6	6
39	A silicon microseismometer for Mars. , 2013, , .		6
40	Exploring the Saturn System in the Thermal Infrared: The Composite Infrared Spectrometer. , 2004, , 169-297.		5
41	Investigation of new band parameters with temperature dependence for self-broadened methane gas in the range 9000 to 14,000cm <sup>-1</sup> (0.71 to 1.1 $\mu$ m). Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 763-782.	2.3	4
42	The Long wave (11 $\mu$ m) spectrograph for the EChO M3 Mission Candidate study. Experimental Astronomy, 2015, 40, 801-811.	3.7	2
43	Composite infrared spectrometer (CIRS) on Cassini: publisher's note. Applied Optics, 2017, 56, 5897.	1.8	2
44	VESAT: The Venus Environmental Satellite Discovery mission. Acta Astronautica, 1995, 35, 417-426.	3.2	1
45	Near-IR Spectroscopy of the Atmosphere of Jupiter. Highlights of Astronomy, 1998, 11, 1050-1053.	0.0	0
46	Infrared limb sounding of Titan with the Cassini Composite InfraRed Spectrometer: effects of the mid-IR detector spatial responses: errata. Applied Optics, 2010, 49, 5575.	2.1	0