

# Anita L Cochran

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

805  
citations

471509

17  
h-index

477307

29  
g-index

36  
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36  
docs citations

36  
times ranked

711  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Composition of Comets. <i>Space Science Reviews</i> , 2015, 197, 9-46.	8.1	90
2	A High Spectral Resolution Atlas of Comet 122P/de Vico. <i>Icarus</i> , 2002, 157, 297-308.	2.5	86
3	The McDonald Observatory faint comet survey: Gas production in 17 comets. <i>Icarus</i> , 1992, 98, 151-162.	2.5	85
4	The Peculiar Volatile Composition of CO-dominated Comet C/2016 R2 (PanSTARRS). <i>Astronomical Journal</i> , 2019, 158, 128.	4.7	55
5	Another look at abundance correlations among comets. <i>Astronomical Journal</i> , 1987, 93, 231.	4.7	42
6	Strong CO <sup>+</sup> and Emission in Comet C/2016 R2 (Pan-STARRS) <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2018, 854, L10.	8.3	38
7	Evolution of H <sub>2</sub> O, CO, and CO <sub>2</sub> production in Comet C/2009 P1 Garrad during the 2011-2012 apparition. <i>Icarus</i> , 2015, 250, 504-515.	2.5	37
8	Parent volatiles in Comet 103P/Hartley 2 observed by Keck II with NIRSPEC during the 2010 apparition. <i>Icarus</i> , 2013, 222, 723-733.	2.5	33
9	Forbidden oxygen lines in Comets C/2006 W3 Christensen and C/2007 Q3 Siding Spring at large heliocentric distance: Implications for the sublimation of volatile ices. <i>Icarus</i> , 2012, 220, 277-285.	2.5	31
10	Detection of a Water Tracer in Interstellar Comet 2I/Borisov. <i>Astrophysical Journal Letters</i> , 2020, 889, L10.	8.3	31
11	Atomic oxygen in the comae of comets. <i>Icarus</i> , 2008, 198, 181-188.	2.5	28
12	Observations of the forbidden oxygen lines in DIXI target Comet 103P/Hartley. <i>Icarus</i> , 2013, 222, 684-690.	2.5	24
13	Probing the Evolutionary History of Comets: An Investigation of the Hypervolatiles CO, CH <sub>4</sub> , and C <sub>2</sub> H <sub>6</sub> in the Jupiter-family Comet 21P/Giacobini-Zinner. <i>Astronomical Journal</i> , 2020, 159, 42.	4.7	23
14	First Comet Observations with NIRSPEC-2 at Keck: Outgassing Sources of Parent Volatiles and Abundances Based on Alternative Taxonomic Compositional Baselines in 46P/Wirtanen. <i>Planetary Science Journal</i> , 2021, 2, 45.	3.6	22
15	Comet Giacobini-Zinner - A normal comet?. <i>Astronomical Journal</i> , 1987, 93, 239.	4.7	22
16	The CO <sub>2</sub> abundance in Comets C/2012 K1 (PanSTARRS), C/2012 K5 (LINEAR), and 290P/Åger as measured with Spitzer. <i>Icarus</i> , 2016, 266, 249-260.	2.5	19
17	EXTREMELY ORGANIC-RICH COMA OF COMET C/2010 G2 (HILL) DURING ITS OUTBURST IN 2012. <i>Astrophysical Journal</i> , 2014, 788, 110.	4.5	18
18	A high-resolution infrared spectral survey of 103P/Hartley 2 on the night of the EPOXI closest approach. <i>Icarus</i> , 2013, 222, 707-722.	2.5	17

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19	Rotational variation of daughter species production rates in Comet 103P/Hartley: Implications for the progeny of daughter species and the degree of chemical heterogeneity. <i>Icarus</i> , 2014, 231, 193-205.	2.5	15
20	Observations of Comet 9P/Tempel 1 with the Keck 1 HIRES instrument during Deep Impact. <i>Icarus</i> , 2007, 187, 156-166.	2.5	14
21	Quantifying the Hypervolatile Abundances in Jupiter-family Comet 46P/Wirtanen. <i>Planetary Science Journal</i> , 2021, 2, 21.	3.6	11
22	Visible and near-infrared spectrophotometry of the Deep Impact ejecta of Comet 9P/Tempel 1. <i>Icarus</i> , 2007, 187, 185-198.	2.5	10
23	Evolution of H <sub>2</sub> O production in comet C/2012 S1 (ISON) as inferred from forbidden oxygen and OH emission. <i>Icarus</i> , 2018, 309, 1-12.	2.5	10
24	The Volatile Composition of the Inner Coma of Comet 46P/Wirtanen: Coordinated Observations Using iSHELL at the NASA-IRTF and Keck/NIRSPEC-2. <i>Planetary Science Journal</i> , 2021, 2, 54.	3.6	6
25	Observations of Comet 9P/Tempel 1 with the Keck 1 HIRES instrument during Deep Impact. <i>Icarus</i> , 2007, 191, 360-370.	2.5	5
26	Visible and near-infrared spectrophotometry of the Deep Impact ejecta of Comet 9P/Tempel 1. <i>Icarus</i> , 2007, 191, 389-402.	2.5	4
27	Rotational Temperature Modeling of the Swan $\hat{v}^{1/2} = 0$ Band Sequence in Comet 122P/de Vico. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8020-8025.	2.5	4
28	What Does It Mean to be a “Depleted” Comet? High Spectral Resolution Observations of the Prototypical Depleted Comet 21P/Giacobini “Zinner” from the McDonald Observatory. <i>Planetary Science Journal</i> , 2020, 1, 71.	3.6	4
29	Volatile Abundances, Extended Coma Sources, and Nucleus Ice Associations in Comet C/2014 Q2 (Lovejoy). <i>Planetary Science Journal</i> , 2022, 3, 6.	3.6	4
30	Jet Morphology and Coma Analysis of Comet 103P/Hartley 2. <i>Astronomical Journal</i> , 2017, 154, 219.	4.7	3
31	THE TEMPORAL CHANGES IN THE EMISSION SPECTRUM OF COMET 9P/TEMPEL 1 AFTER DEEP IMPACT. <i>Astrophysical Journal</i> , 2009, 698, 1609-1619.	4.5	2
32	Investigating the Temperature Distribution of Diatomic Carbon in Comets Using the Swan Bands. <i>Astronomical Journal</i> , 2019, 158, 221.	4.7	2
33	Examination of Fragment Species in the Comae of Several Comets Using an Integral Field Unit Spectrograph. <i>Planetary Science Journal</i> , 2021, 2, 19.	3.6	2
34	The Composition of Comets. , 2017, , 9-46.		0