Karen Magee-Sauer

List of Publications by Year
in descending order

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41	2,898	136950	276875
papers	citations	32 h-index	41 g-index

41	41	41	1038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep Impact: Observations from a Worldwide Earth-Based Campaign. Science, 2005, 310, 265-269.	12.6	182
2	Parent Volatiles in Comet 9P/Tempel 1: Before and After Impact. Science, 2005, 310, 270-274.	12.6	168
3	Organic Composition of C/1999 S4 (LINEAR): A Comet Formed Near Jupiter?. Science, 2001, 292, 1334-1339.	12.6	153
4	Carbon Monoxide Production and Excitation in Comet C/1995 O1 (Hale-Bopp): Isolation of Native and Distributed CO Sources. Icarus, 2001, 153, 361-390.	2.5	151
5	Methane in Oort cloud comets. Icarus, 2003, 165, 391-406.	2.5	135
6	Remote infrared observations of parent volatiles in comets: A window on the early solar system. Advances in Space Research, 2003, 31, 2563-2575.	2.6	134
7	Carbonyl Sulfide in Comets C/1996 B2 (Hyakutake) and C/1995 O1 (Haleâ€“Bopp): Evidence for an Extended Source in Haleâ€“Bopp. Icarus, 1998, 135, 377-388.	2.5	111
8	Water Production and Release in Comet C/1995 O1 Haleâ€“Bopp. Icarus, 2000, 143, 324-337.	2.5	109
9	A Survey of Organic Volatile Species in Comet C/1999 H1 (Lee) Using NIRSPEC at the Keck Observatory. Astrophysical Journal, 2001, 546, 1183-1193.	4.5	104
10	Water Production Rates, Rotational Temperatures, and Spin Temperatures in Comets C/1999 H1 (Lee), C/1999 S4, and C/2001 A2. Astrophysical Journal, 2005, 621, 537-544.	4.5	98
11	Water production and release in Comet 153P/Ikeyaâ€“Zhang (C/2002 C1): accurate rotational temperature retrievals from hot-band lines near 2.9-Î¼m. Icarus, 2004, 168, 186-200.	2.5	97
12	Identification of two sources of carbon monoxide in comet Haleâ€“Bopp. Nature, 1999, 399, 662-665.	27.8	96
13	EPOXI: COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. Astrophysical Journal Letters, 2011, 734, L1.	8.3	96
14	Infrared Spectroscopy of the Î½3 Band of Hydrogen Cyanide in Comet C/1995 O1 Haleâ€“Bopp. Icarus, 1999, 142, 498-508.	2.5	83
15	Detection of Formaldehyde Emission in Comet C/2002 T7 (LINEAR) at Infrared Wavelengths: Lineâ€byâ€Line Validation of Modeled Fluorescent Intensities. Astrophysical Journal, 2006, 650, 470-483.	4.5	82
16	The molecular composition of Comet C/2007 W1 (Boattini): Evidence of a peculiar outgassing and a rich chemistry. Icarus, 2011, 216, 227-240.	2.5	79
17	A Comprehensive Study of Infrared OH Prompt Emission in Two Comets. I. Observations and Effectivegâ€Factors. Astrophysical Journal, 2006, 653, 774-787.	4.5	76
18	Detection of CO and Ethane in Comet 21P/Giacobini-Zinner: Evidence for Variable Chemistry in the Outer Solar Nebula. Astrophysical Journal, 2000, 531, L155-L159.	4.5	68

#	Article	IF	Citations
19	A Search for Variation in the H 2 O Ortho-Para Ratio and Rotational Temperature in the Inner Coma of Comet C/2004 Q2 (Machholz). Astrophysical Journal, 2007, 661, L97-L100.	4.5	67
20	TEMPORAL AND SPATIAL ASPECTS OF GAS RELEASE DURING THE 2010 APPARITION OF COMET 103P/HARTLEY 2. Astrophysical Journal Letters, 2011, 734, L7.	8.3	67
21	Ethane in planetary and cometary atmospheres: Transmittance and fluorescence models of theÎ½₇band at 3.3Î¼m. Journal of Geophysical Research, 2011, 116, .	3.3	65
22	Mapping of Ozone and Water in the Atmosphere of Mars near the 1997 Aphelion. Icarus, 2002, 158, 14-23.	2.5	62
23	Ethane Production and Release in Comet C/1995 O1 Haleâ€“Bopp. Icarus, 2001, 153, 162-179.	2.5	55
24	The Volatile Composition of the Split Ecliptic comet 73P/Schwassmann-Wachmann 3: A Comparison of Fragments C and B. Astrophysical Journal, 2006, 650, L87-L90.	4.5	54
25	A high-resolution infrared spectral survey of Comet C/1999 H1 Lee. Icarus, 2006, 184, 255-276.	2.5	52
26	The organic composition of Comet C/2001 A2 (LINEAR). Icarus, 2008, 194, 347-356.	2.5	44
27	Depleted Carbon Monoxide in Fragment C of the Jupiter-Family Comet 73P/Schwassmann-Wachmann 3. Astrophysical Journal, 2007, 661, L101-L104.	4.5	40
28	The organic composition of C/2001 A2 (LINEAR)II. Search for heterogeneity within a comet nucleus. Icarus, 2007, 188, 224-232.	2.5	38
29	COMET C/2004 Q2 (MACHHOLZ): PARENT VOLATILES, A SEARCH FOR DEUTERATED METHANE, AND CONSTRAINT ON THE CH₄SPIN TEMPERATURE. Astrophysical Journal, 2009, 699, 1563-1572.	4.5	37
30	Evidence for a dominant native source of carbon monoxide in Comet C/1996 B2 (Hyakutake). Journal of Geophysical Research, 2003, 108, .	3.3	36
31	The organic composition of Comet C/2000 WM1 (LINEAR) revealed through infrared spectroscopy. Icarus, 2010, 206, 764-777.	2.5	36
32	Production of ethane and water in comet C/1996 B2 Hyakutake. Journal of Geophysical Research, 2002, 107, 5-1-5-11.	3.3	34
33	Hydrogen cyanide in comet C/1996 B2 Hyakutake. Journal of Geophysical Research, 2002, 107, 6-1-6-10.	3.3	31
34	Temporal evolution of parent volatiles and dust in Comet 9P/Tempel 1 resulting from the Deep Impact experiment. Icarus, 2007, 187, 240-252.	2.5	30
35	Infrared OH Prompt Emission as a Proxy of Water Production in Comets: Quantitative Analysis of the Multiplet Near 3046 cmâ^'1in Comets C/1999 H1 (Lee) and C/2001 A2 (LINEAR). Astrophysical Journal, 2004, 615, 1048-1053.	4.5	25
36	Modeling of nitrogen compounds in cometary atmospheres: Fluorescence models of ammonia (NH3), hydrogen cyanide (HCN), hydrogen isocyanide (HNC) and cyanoacetylene (HC3N). Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 129, 158-168.	2.3	24

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37	Spatial distribution of O(1D) from comet Halley. Icarus, 1988, 76, 89-99.	2.5	18
38	Fabry-Perot observations of NH2 emission from Comet Halley. Icarus, 1989, 82, 50-60.	2.5	17
39	Comet Halley O(1D) and H2O production rates. Icarus, 1990, 84, 154-165.	2.5	17
40	Fabry-Perot observations of Comet Halley H2O+. Icarus, 1990, 86, 172-188.	2.5	17
41	Temporal evolution of parent volatiles and dust in Comet 9P/Tempel 1 resulting from the Deep Impact experiment. Icarus, 2007, 191, 481-493.	2.5	10