

# Michelle Kirchoff

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

778  
citations

623734

14  
h-index

552781

26  
g-index

29  
all docs

29  
docs citations

29  
times ranked

840  
citing authors

#	ARTICLE	IF	CITATIONS
1	The variability of crater identification among expert and community crater analysts. <i>Icarus</i> , 2014, 234, 109-131.	2.5	135
2	Crater modification and geologic activity in Enceladus' heavily cratered plains: Evidence from the impact crater distribution. <i>Icarus</i> , 2009, 202, 656-668.	2.5	69
3	Impact cratering records of the mid-sized, icy saturnian satellites. <i>Icarus</i> , 2010, 206, 485-497.	2.5	55
4	Revised recommended methods for analyzing crater sizeâ€‘frequency distributions. <i>Meteoritics and Planetary Science</i> , 2018, 53, 891-931.	1.6	55
5	Ages of large lunar impact craters and implications for bombardment during the Moonâ€™s middle age. <i>Icarus</i> , 2013, 225, 325-341.	2.5	50
6	Dating very young planetary surfaces from crater statistics: A review of issues and challenges. <i>Meteoritics and Planetary Science</i> , 2018, 53, 554-582.	1.6	45
7	Global distribution of volcanic centers and mountains on Io: Control by asthenospheric heating and implications for mountain formation. <i>Earth and Planetary Science Letters</i> , 2011, 301, 22-30.	4.4	43
8	On the secular retention of ground water and ice on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 94-109.	3.6	41
9	Secondary craters and ejecta across the solar system: Populations and effects on impactâ€‘craterâ€‘based chronologies. <i>Meteoritics and Planetary Science</i> , 2018, 53, 638-671.	1.6	35
10	CONSTRAINTS ON PLANETESIMAL DISK MASS FROM THE CRATERING RECORD AND EQUATORIAL RIDGE ON IAPETUS. <i>Astrophysical Journal</i> , 2014, 792, 127.	4.5	29
11	Icy Satellites of Saturn: Impact Cratering and Age Determination. , 2009, , 613-635.		29
12	Formation of mountains on Io: Variable volcanism and thermal stresses. <i>Icarus</i> , 2009, 201, 598-614.	2.5	28
13	Impact basin relaxation at Iapetus. <i>Icarus</i> , 2011, 214, 82-90.	2.5	23
14	Crater Distributions of Uranus's Mid-sized Satellites and Implications for Outer Solar System Bombardment. <i>Planetary Science Journal</i> , 2022, 3, 42.	3.6	20
15	Dioneâ€™s resurfacing history as determined from a global impact crater database. <i>Icarus</i> , 2015, 256, 78-89.	2.5	18
16	Small Impact Crater Populations on Saturn's Moon Tethys and Implications for Source Impactors in the System. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006400.	3.6	14
17	A unique Saturnian impactor population from elliptical craters. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117652.	4.4	14
18	Regional Impact Crater Mapping and Analysis on Saturn's Moon Dione and the Relation to Source Impactors. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	11

#	ARTICLE	IF	CITATIONS
19	Magma ascent pathways associated with large mountains on Io. <i>Icarus</i> , 2016, 272, 246-257.	2.5	10
20	Cratering Histories in the Saturnian System. , 2018, , .		10
21	The anatomy of fresh complex craters on the mid-sized icy moons of Saturn and self-secondary cratering at the rayed crater Inktomi (Rhea). <i>Meteoritics and Planetary Science</i> , 2020, 55, 2440-2460.	1.6	9
22	Can spatial statistics help decipher impact crater saturation?. <i>Meteoritics and Planetary Science</i> , 2018, 53, 874-890.	1.6	7
23	Suggestion that recent ( $\sim 3\text{ Ga}$ ) flux of kilometer and larger impactors in the Earth-Moon system has not been constant. <i>Icarus</i> , 2021, 355, 114110.	2.5	7
24	Effects of faulting on crustal stresses during mountain formation on Io. <i>Icarus</i> , 2020, 335, 113326.	2.5	6
25	Empirical Brightness Control and Equalization of Mars Context Camera Images. <i>Earth and Space Science</i> , 2020, 7, e2019EA001053.	2.6	5
26	Timing and Distribution of Single-Layered Ejecta Craters Imply Sporadic Preservation of Tropical Subsurface Ice on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 131-144.	3.6	4
27	Testing models for the formation of the equatorial ridge on Iapetus via crater counting. <i>Icarus</i> , 2018, 302, 134-144.	2.5	3
28	Fully Controlled 6 Meters per Pixel Mosaic of Mars's South Polar Region. <i>Earth and Space Science</i> , 2020, 7, e2019EA001054.	2.6	3
29	Morphometric Study of Craters on Saturn's Moon Rhea. <i>Planetary Science Journal</i> , 2021, 2, 235.	3.6	0