

Mikael Granvik

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,090
citations

331670

21
h-index

233421

45
g-index

68
all docs

68
docs citations

68
times ranked

2051
citing authors

#	ARTICLE	IF	CITATIONS
1	Masses, bulk densities, and macroporosities of asteroids (15) Eunomia, (29) Amphitrite, (52) Europa, and (445) Edna based on Gaia astrometry. <i>Astronomy and Astrophysics</i> , 2022, 658, A65.	5.1	4
2	The Debiased Compositional Distribution of MITHNEOS: Global Match between the Near-Earth and Main-belt Asteroid Populations, and Excess of D-type Near-Earth Objects. <i>Astronomical Journal</i> , 2022, 163, 165.	4.7	13
3	International Asteroid Warning Network Timing Campaign: 2019 XS. <i>Planetary Science Journal</i> , 2022, 3, 156.	3.6	6
4	(3200) Phaethon polarimetry in the negative branch: new evidence for the anhydrous nature of the DESTINY+ target asteroid. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 516, L53-L57.	3.3	6
5	Laser processing of minerals common on asteroids. <i>Optics and Laser Technology</i> , 2021, 135, 106724.	4.6	5
6	Mass and Density of Asteroid (16) Psyche. <i>Astrophysical Journal Letters</i> , 2021, 909, L14.	8.3	11
7	The impact and recovery of asteroid 2018 LA. <i>Meteoritics and Planetary Science</i> , 2021, 56, 844-893.	1.6	21
8	Laser-induced spallation of minerals common on asteroids. <i>Acta Astronautica</i> , 2021, 182, 325-331.	3.2	5
9	Latitude Variation of Flux and Impact Angle of Asteroid Collisions with Earth and the Moon. <i>Planetary Science Journal</i> , 2021, 2, 88.	3.6	8
10	Minimum perihelion distances and associated dwell times for near-Earth asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 3301-3312.	4.4	4
11	Dynamical evolution and thermal history of asteroids (3200) Phaethon and (155140) 2005 UD. <i>Icarus</i> , 2021, 366, 114535.	2.5	25
12	Icarus: In-situ monitoring of the surface degradation on a near-Sun asteroid. <i>Acta Astronautica</i> , 2021, 186, 98-108.	3.2	0
13	Laboratory experiments with a laser-based attachment mechanism for spacecraft at small bodies. <i>Acta Astronautica</i> , 2021, 189, 391-397.	3.2	1
14	Polarimetric properties of the near-Sun asteroid (155140) 2005 UD in comparison with other asteroids and meteoritic samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4128-4142.	4.4	7
15	Discovering Earth's transient moons with the Large Synoptic Survey Telescope. <i>Icarus</i> , 2020, 338, 113517.	2.5	10
16	Asteroid mass estimation with the robust adaptive Metropolis algorithm. <i>Astronomy and Astrophysics</i> , 2020, 633, A46.	5.1	13
17	Establishing Earth's Minimoons Population through Characterization of Asteroid 2020 CD ₃ . <i>Astronomical Journal</i> , 2020, 160, 277.	4.7	16
18	New Evidence for a Physical Link between Asteroids (155140) 2005 UD and (3200) Phaethon*. <i>Planetary Science Journal</i> , 2020, 1, 15.	3.6	21

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19	Radar observability of near-Earth objects using EISCAT 3D. <i>Annales Geophysicae</i> , 2020, 38, 861-879.	1.6	5
20	Development of a Realistic Set of Synthetic Earth Impactor Orbits. , 2019, , .		4
21	The Creston, California, meteorite fall and the origin of L chondrites. <i>Meteoritics and Planetary Science</i> , 2019, 54, 699-720.	1.6	21
22	Debris of Asteroid Disruptions Close to the Sun ⁺ . <i>Astrophysical Journal</i> , 2019, 873, 104.	4.5	12
23	The SariÅŒiÅŒek howardite fall in Turkey: Source crater of <scp>HED</scp> meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	1.6	30
24	sbpy: A Python module for small-body planetary astronomy. <i>Journal of Open Source Software</i> , 2019, 4, 1426.	4.6	28
25	A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. <i>Research Notes of the AAS</i> , 2019, 3, 51.	0.7	6
26	Debiased orbit and absolute-magnitude distributions for near-Earth objects. <i>Icarus</i> , 2018, 312, 181-207.	2.5	156
27	Identification of meteorite source regions in the Solar System. <i>Icarus</i> , 2018, 311, 271-287.	2.5	61
28	Feasibility of asteroid exploration using CubeSatsâ€™ ASPECT case study. <i>Advances in Space Research</i> , 2018, 62, 2239-2244.	2.6	27
29	Monitoring near-Earth-object discoveries for imminent impactors. <i>Astronomy and Astrophysics</i> , 2018, 616, A176.	5.1	5
30	Optimizing asteroid orbit computation for Gaia with normal points. <i>Astronomy and Astrophysics</i> , 2018, 620, A101.	5.1	2
31	Radio Interferometric Observation of an Asteroid Occultation. <i>Astronomical Journal</i> , 2018, 156, 155.	4.7	2
32	Added-value interfaces to asteroid photometric and spectroscopic data in the Gaia database. <i>Advances in Space Research</i> , 2018, 62, 464-476.	2.6	6
33	Nanospacecraft fleet for multi-asteroid touring with electric solar wind sails. , 2018, , .		10
34	Earth's Minimoons: Opportunities for Science and Technology. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	2.8	16
35	OSSOS. VII. 800+ Trans-Neptunian Objectsâ€™ The Complete Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 18.	7.7	108
36	Escape of asteroids from the main belt. <i>Astronomy and Astrophysics</i> , 2017, 598, A52.	5.1	77

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37	A Dark Asteroid Family in the Phocaea Region. <i>Astronomical Journal</i> , 2017, 153, 266.	4.7	22
38	Orbit and size distributions for asteroids temporarily captured by the Earth-Moon system. <i>Icarus</i> , 2017, 285, 83-94.	2.5	23
39	Asteroid mass estimation using Markov-chain Monte Carlo. <i>Icarus</i> , 2017, 297, 149-159.	2.5	11
40	Streak detection and analysis pipeline for space-debris optical images. <i>Advances in Space Research</i> , 2016, 57, 1607-1623.	2.6	42
41	A fast method for quantifying observational selection effects in asteroid surveys. <i>Icarus</i> , 2016, 266, 173-188.	2.5	34
42	Super-catastrophic disruption of asteroids at small perihelion distances. <i>Nature</i> , 2016, 530, 303-306.	27.8	161
43	Small asteroids temporarily captured in the Earth-Moon system. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 86-90.	0.0	1
44	Absolute magnitudes and slope parameters for 250,000 asteroids observed by Pan-STARRS PS1 – Preliminary results. <i>Icarus</i> , 2015, 261, 34-47.	2.5	86
45	Observational constraints on the catastrophic disruption rate of small main belt asteroids. <i>Icarus</i> , 2015, 245, 1-15.	2.5	15
46	Detecting Earth’s temporarily-captured natural satellites – Minimoons. <i>Icarus</i> , 2014, 241, 280-297.	2.5	35
47	Designing rendezvous missions with mini-moons using geometric optimal control. <i>Journal of Industrial and Management Optimization</i> , 2014, 10, 477-501.	1.3	10
48	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. <i>Science</i> , 2013, 342, 1069-1073.	12.6	487
49	The Pan-STARRS Moving Object Processing System. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 357-395.	3.1	124
50	Earth’s Temporarily-Captured Natural Satellites – The First Step towards Utilization of Asteroid Resources. , 2013, , 151-167.		8
51	DISCOVERY OF MAIN-BELT COMET P/2006 VW ₁₃₉ BY Pan-STARRS1. <i>Astrophysical Journal Letters</i> , 2012, 748, L15.	8.3	49
52	Searching for the first near-Earth object family. <i>Icarus</i> , 2012, 220, 1050-1063.	2.5	28
53	The population of natural Earth satellites. <i>Icarus</i> , 2012, 218, 262-277.	2.5	84
54	Detection of Earth-impacting asteroids with the next generation all-sky surveys. <i>Icarus</i> , 2009, 203, 472-485.	2.5	32

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55	OpenOrb: Open-source asteroid orbit computation software including statistical ranging. Meteoritics and Planetary Science, 2009, 44, 1853-1861.	1.6	48
56	Asteroid orbital ranging using Markov-Chain Monte Carlo. Meteoritics and Planetary Science, 2009, 44, 1897-1904.	1.6	20
57	Asteroid identification over apparitions. Icarus, 2008, 198, 130-137.	2.5	12
58	Near-Earth-Object identification over apparitions using n-body ranging. Proceedings of the International Astronomical Union, 2006, 2, 281-290.	0.0	2
59	Spins, shapes, and orbits for near-Earth objects by Nordic NEON. Proceedings of the International Astronomical Union, 2006, 2, 309-320.	0.0	0
60	Transneptunian Object Ephemeris Service (tnoeph). , 2004, , 73-78.		3