Mikael Granvik

List of Publications by Year
in descending order

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	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. Science, 2013, 342, 1069-1073.	12.6	487
2	Super-catastrophic disruption of asteroids at small perihelion distances. Nature, 2016, 530, 303-306.	27.8	161
3	Debiased orbit and absolute-magnitude distributions for near-Earth objects. Icarus, 2018, 312, 181-207.	2.5	156
4	The Pan-STARRS Moving Object Processing System. Publications of the Astronomical Society of the Pacific, 2013, 125, 357-395.	3.1	124
5	OSSOS. VII. 800+ Trans-Neptunian Objects—The Complete Data Release. Astrophysical Journal, Supplement Series, 2018, 236, 18.	7.7	108
6	Absolute magnitudes and slope parameters for 250,000 asteroids observed by Pan-STARRS PS1 – Preliminary results. Icarus, 2015, 261, 34-47.	2.5	86
7	The population of natural Earth satellites. Icarus, 2012, 218, 262-277.	2.5	84
8	Escape of asteroids from the main belt. Astronomy and Astrophysics, 2017, 598, A52.	5.1	77
9	Identification of meteorite source regions in the Solar System. Icarus, 2018, 311, 271-287.	2.5	61
10	DISCOVERY OF MAIN-BELT COMET P/2006 VW$_{139}$ BY Pan-STARRS1. Astrophysical Journal Letters, 2012, 748, L15.	8.3	49
11	OpenOrb: Open–source asteroid orbit computation software including statistical ranging. Meteoritics and Planetary Science, 2009, 44, 1853-1861.	1.6	48
12	Streak detection and analysis pipeline for space-debris optical images. Advances in Space Research, 2016, 57, 1607-1623.	2.6	42
13	Detecting Earth's temporarily-captured natural satellites—Minimoons. Icarus, 2014, 241, 280-297.	2.5	35
14	A fast method for quantifying observational selection effects in asteroid surveys. Icarus, 2016, 266, 173-188.	2.5	34
15	Detection of Earth-impacting asteroids with the next generation all-sky surveys. Icarus, 2009, 203, 472-485.	2.5	32
16	The Sariçiçek howardite fall in Turkey: Source crater of HED meteorites on Vesta and impact risk of Vestoids. Meteoritics and Planetary Science, 2019, 54, 953-1008.	1.6	30
17	Searching for the first near-Earth object family. Icarus, 2012, 220, 1050-1063.	2.5	28
18	sbpy: A Python module for small-body planetary astronomy. Journal of Open Source Software, 2019, 4, 1426.	4.6	28

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19	Feasibility of asteroid exploration using CubeSatsâ€"ASPECT case study. Advances in Space Research, 2018, 62, 2239-2244.	2.6	27
20	Dynamical evolution and thermal history of asteroids (3200) Phaethon and (155140) 2005 UD. Icarus, 2021, 366, 114535.	2.5	25
21	Orbit and size distributions for asteroids temporarily captured by the Earth-Moon system. Icarus, 2017, 285, 83-94.	2.5	23
22	A Dark Asteroid Family in the Phocaea Region. Astronomical Journal, 2017, 153, 266.	4.7	22
23	The Creston, California, meteorite fall and the origin of L chondrites. Meteoritics and Planetary Science, 2019, 54, 699-720.	1.6	21
24	The impact and recovery of asteroid 2018 LA. Meteoritics and Planetary Science, 2021, 56, 844-893.	1.6	21
25	New Evidence for a Physical Link between Asteroids (155140) 2005 UD and (3200) Phaethon*. Planetary Science Journal, 2020, 1, 15.	3.6	21
26	Asteroid orbital ranging using Markovâ€Chain Monte Carlo. Meteoritics and Planetary Science, 2009, 44, 1897-1904.	1.6	20
27	Earth's Minimoons: Opportunities for Science and Technology. Frontiers in Astronomy and Space Sciences, 2018, 5, .	2.8	16
28	Establishing Earthâ€™s Minimoon Population through Characterization of Asteroid 2020 CD$_3$. Astronomical Journal, 2020, 160, 277.	4.7	16
29	Observational constraints on the catastrophic disruption rate of small main belt asteroids. Icarus, 2015, 245, 1-15.	2.5	15
30	Asteroid mass estimation with the robust adaptive Metropolis algorithm. Astronomy and Astrophysics, 2020, 633, A46.	5.1	13
31	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. Astronomical Journal, 2022, 163, 165.	4.7	13
32	Asteroid identification over apparitions. Icarus, 2008, 198, 130-137.	2.5	12
33	Debris of Asteroid Disruptions Close to the Sun*. Astrophysical Journal, 2019, 873, 104.	4.5	12
34	Asteroid mass estimation using Markov-chain Monte Carlo. Icarus, 2017, 297, 149-159.	2.5	11
35	Mass and Density of Asteroid (16) Psyche. Astrophysical Journal Letters, 2021, 909, L14.	8.3	11
36	Nanospacecraft fleet for multi-asteroid touring with electric solar wind sails. , 2018, , .		10

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37	Discovering Earth's transient moons with the Large Synoptic Survey Telescope. Icarus, 2020, 338, 113517.	2.5	10
38	Designing rendezvous missions with mini-moons using geometric optimal control. Journal of Industrial and Management Optimization, 2014, 10, 477-501.	1.3	10
39	Latitude Variation of Flux and Impact Angle of Asteroid Collisions with Earth and the Moon. Planetary Science Journal, 2021, 2, 88.	3.6	8
40	Earth's Temporarily-Captured Natural Satellites â€" The First Step towards Utilization of Asteroid Resources. , 2013, , 151-167.		8
41	Polarimetric properties of the near-Sun asteroid (155140) 2005 UD in comparison with other asteroids and meteoritic samples. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4128-4142.	4.4	7
42	Added-value interfaces to asteroid photometric and spectroscopic data in the Gaia database. Advances in Space Research, 2018, 62, 464-476.	2.6	6
43	A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. Research Notes of the AAS, 2019, 3, 51.	0.7	6
44	International Asteroid Warning Network Timing Campaign: 2019 XS. Planetary Science Journal, 2022, 3, 156.	3.6	6
45	(3200) Phaethon polarimetry in the negative branch: new evidence for the anhydrous nature of the <i>DESTINY</i>+ target asteroid. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 516, L53-L57.	3.3	6
46	Monitoring near-Earth-object discoveries for imminent impactors. Astronomy and Astrophysics, 2018, 616, A176.	5.1	5
47	Laser processing of minerals common on asteroids. Optics and Laser Technology, 2021, 135, 106724.	4.6	5
48	Laser-induced spallation of minerals common on asteroids. Acta Astronautica, 2021, 182, 325-331.	3.2	5
49	Radar observability of near-Earth objects using EISCAT 3D. Annales Geophysicae, 2020, 38, 861-879.	1.6	5
50	Development of a Realistic Set of Synthetic Earth Impactor Orbits. , 2019, , .		4
51	Minimum perihelion distances and associated dwell times for near-Earth asteroids. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3301-3312.	4.4	4
52	Masses, bulk densities, and macroporosities of asteroids (15) Eunomia, (29) Amphitrite, (52) Europa, and (445) Edna based on <i>Gaia</i> astrometry. Astronomy and Astrophysics, 2022, 658, A65.	5.1	4
53	Transneptunian Object Ephemeris Service (tnoeph). , 2004, , 73-78.		3
54	Near-Earth-Object identification over apparitions using n-body ranging. Proceedings of the International Astronomical Union, 2006, 2, 281-290.	0.0	2

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55	Optimizing asteroid orbit computation for Gaia with normal points. Astronomy and Astrophysics, 2018, 620, A101.	5.1	2
56	Radio Interferometric Observation of an Asteroid Occultation. Astronomical Journal, 2018, 156, 155.	4.7	2
57	Small asteroids temporarily captured in the Earth-Moon system. Proceedings of the International Astronomical Union, 2015, 10, 86-90.	0.0	1
58	Laboratory experiments with a laser-based attachment mechanism for spacecraft at small bodies. Acta Astronautica, 2021, 189, 391-397.	3.2	1
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	Icarus: In-situ monitoring of the surface degradation on a near-Sun asteroid. Acta Astronautica, 2021, 186, 98-108.	3.2	0