

# Mirel Birlan

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

2,676  
citations

186265

28  
h-index

206112

48  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1805  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar wind as the origin of rapid reddening of asteroid surfaces. <i>Nature</i> , 2009, 458, 993-995.	27.8	173
2	Earth encounters as the origin of fresh surfaces on near-Earth asteroids. <i>Nature</i> , 2010, 463, 331-334.	27.8	143
3	Compositional distributions and evolutionary processes for the near-Earth object population: Results from the MIT-Hawaii Near-Earth Object Spectroscopic Survey (MITHNEOS). <i>Icarus</i> , 2019, 324, 41-76.	2.5	123
4	Modeling asteroid surfaces from observations and irradiation experiments: The case of 832 Karin. <i>Icarus</i> , 2006, 184, 327-337.	2.5	92
5	Remote sensing of Venus's lower atmosphere from ground-based IR spectroscopy: Latitudinal and vertical distribution of minor species. <i>Planetary and Space Science</i> , 2006, 54, 1360-1370.	1.7	90
6	Analysis of near-IR spectra of 1 Ceres and 4 Vesta, targets of the Dawn mission. <i>Astronomy and Astrophysics</i> , 2005, 436, 1113-1121.	5.1	89
7	INTERPLANETARY DUST PARTICLES AS SAMPLES OF ICY ASTEROIDS. <i>Astrophysical Journal</i> , 2015, 806, 204.	4.5	85
8	Asteroid target selection for the new Rosetta mission baseline. <i>Astronomy and Astrophysics</i> , 2005, 430, 313-317.	5.1	84
9	Modeling of asteroid spectra " M4AST. <i>Astronomy and Astrophysics</i> , 2012, 544, A130.	5.1	83
10	Taxonomy of Centaurs and Trans-Neptunian Objects. <i>Astronomical Journal</i> , 2005, 130, 1291-1298.	4.7	77
11	MULTIPLE AND FAST: THE ACCRETION OF ORDINARY CHONDRITE PARENT BODIES. <i>Astrophysical Journal</i> , 2014, 791, 120.	4.5	75
12	New determination of the size and bulk density of the binary Asteroid 22 Kalliope from observations of mutual eclipses. <i>Icarus</i> , 2008, 196, 578-600.	2.5	69
13	Figure of the double Asteroid 90 Antiope from adaptive optics and lightcurve observations. <i>Icarus</i> , 2007, 187, 482-499.	2.5	67
14	Spectral properties and composition of potentially hazardous Asteroid (99942) Apophis. <i>Icarus</i> , 2009, 200, 480-485.	2.5	64
15	FRIPON: a worldwide network to track incoming meteoroids. <i>Astronomy and Astrophysics</i> , 2020, 644, A53.	5.1	58
16	VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. <i>Astronomy and Astrophysics</i> , 2021, 654, A56.	5.1	50
17	Near-IR spectroscopy of asteroids , , and , potential targets for the Rosetta mission; remote observations campaign on IRTF. <i>New Astronomy</i> , 2004, 9, 343-351.	1.8	47
18	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47

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19	(16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.	5.1	46
20	Asteroid (21) Lutetia as a remnant of Earth's precursor planetesimals. <i>Icarus</i> , 2011, 216, 650-659.	2.5	45
21	COMPOSITIONAL HOMOGENEITY OF CM PARENT BODIES. <i>Astronomical Journal</i> , 2016, 152, 54.	4.7	44
22	Latitudinal variations of CO and OCS in the lower atmosphere of Venus from near-infrared nightside spectro-imaging. <i>Icarus</i> , 2005, 179, 375-386.	2.5	40
23	Analysis of Trans-Neptunian and Centaur colours: continuous trend or grouping?. <i>Astronomy and Astrophysics</i> , 2001, 371, 1150-1154.	5.1	38
24	A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. <i>Nature Astronomy</i> , 2020, 4, 136-141.	10.1	38
25	Near infra-red spectroscopy of the asteroid 21 Lutetia. <i>Astronomy and Astrophysics</i> , 2007, 470, 1157-1164.	5.1	35
26	Spectral observations for near-Earth objects including potential target 4660 Nereus : Results from Meudon remote observations at the NASA Infrared Telescope Facility (IRTF). <i>Planetary and Space Science</i> , 2004, 52, 291-296.	1.7	34
27	Near infra-red spectroscopy of the asteroid 21 Lutetia. <i>Astronomy and Astrophysics</i> , 2006, 454, 677-681.	5.1	34
28	Search for horizontal and vertical variations of CO in the day and night side lower mesosphere of Venus from CSHELL/IRTF $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll"} \rangle \langle \text{mml:mn} \rangle 4.53 \langle \text{mml:mn} \rangle \langle \text{mml:mpace width="0.25em"} \rangle / \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \frac{1}{4} \langle \text{mml:mi} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle m \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ observations. <i>Planetary and Space Science</i> , 2015, 113-114, 256-263.	1.7	30
29	Overview of Lutetia's surface composition. <i>Planetary and Space Science</i> , 2012, 66, 23-30.	1.7	29
30	Compositional characterisation of the Themis family. <i>Astronomy and Astrophysics</i> , 2016, 586, A15.	5.1	29
31	The impact crater at the origin of the Julia family detected with VLT/SPHERE?. <i>Astronomy and Astrophysics</i> , 2018, 618, A154.	5.1	29
32	The Extension of the G-Mode Asteroid Taxonomy. <i>Icarus</i> , 2000, 146, 204-212.	2.5	27
33	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	10.1	26
34	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
35	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	5.1	25
36	Cavezzo, the first Italian meteorite recovered by the PRISMA fireball network. Orbit, trajectory, and strewn-field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1215-1227.	4.4	24

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37	Spectral properties of the largest asteroids associated with Taurid Complex. <i>Astronomy and Astrophysics</i> , 2014, 572, A106.	5.1	23
38	Probing the use of spectroscopy to determine the meteoritic analogues of meteors. <i>Astronomy and Astrophysics</i> , 2018, 613, A54.	5.1	23
39	E-type asteroid (2867) Steins: flyby target for Rosetta. <i>Astronomy and Astrophysics</i> , 2007, 473, L33-L36.	5.1	21
40	A giant crater on 90 Antiope?. <i>Icarus</i> , 2009, 203, 102-111.	2.5	21
41	Spectral properties of eight near-Earth asteroids. <i>Astronomy and Astrophysics</i> , 2011, 535, A15.	5.1	21
42	Closing the gap between Earth-based and interplanetary mission observations: Vesta seen by VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2019, 623, A6.	5.1	20
43	(216) Kleopatra, a low density critically rotating M-type asteroid. <i>Astronomy and Astrophysics</i> , 2021, 653, A57.	5.1	20
44	Calibration of fish-eye lens and error estimation on fireball trajectories: application to the FRIPON network. <i>Astronomy and Astrophysics</i> , 2019, 627, A78.	5.1	17
45	Selecting asteroids for a targeted spectroscopic survey. <i>Astronomy and Astrophysics</i> , 2014, 572, A29.	5.1	16
46	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
47	Physical characterization of the Karin family. <i>Astronomy and Astrophysics</i> , 2006, 460, 945-951.	5.1	15
48	Spectral properties of nine M-type asteroids. <i>Astronomy and Astrophysics</i> , 2007, 475, 747-754.	5.1	15
49	Association between meteor showers and asteroids using multivariate criteria. <i>Astronomy and Astrophysics</i> , 2017, 607, A5.	5.1	15
50	EURONEAR: Data mining of asteroids and Near Earth Asteroids. <i>Astronomische Nachrichten</i> , 2009, 330, 698-707.	1.2	14
51	EURONEAR's Recovery, follow-up and discovery of NEAs and MBAs using large field 1.2m telescopes. <i>Planetary and Space Science</i> , 2011, 59, 1632-1646.	1.7	14
52	Active Asteroid (6478) Gault: A Blue Q-type Surface below the Dust?. <i>Astrophysical Journal Letters</i> , 2019, 882, L2.	8.3	14
53	(704) Interamnia: a transitional object between a dwarf planet and a typical irregular-shaped minor body. <i>Astronomy and Astrophysics</i> , 2020, 633, A65.	5.1	14
54	A spectral comparison of (379) Huenna and its satellite. <i>Icarus</i> , 2011, 212, 677-681.	2.5	13

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55	Similar origin for low- and high-albedo Jovian Trojans and Hilda asteroids?. <i>Astronomy and Astrophysics</i> , 2014, 568, L7.	5.1	12
56	Evidence for a source of H chondrites in the outer main asteroid belt. <i>Astronomy and Astrophysics</i> , 2014, 567, L7.	5.1	12
57	The small binary asteroid (939) Isberga. <i>Icarus</i> , 2015, 248, 516-525.	2.5	12
58	The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.	5.1	12
59	832 Karin: Absence of rotational spectral variations. <i>Icarus</i> , 2007, 191, 330-336.	2.5	11
60	Mining the ESO WFI and INT WFC archives for known Near Earth Asteroids. Mega-Precovery software. <i>Astronomische Nachrichten</i> , 2013, 334, 718-728.	1.2	11
61	Luminous efficiency based on FRIPON meteors and limitations of ablation models. <i>Astronomy and Astrophysics</i> , 2021, 650, A159.	5.1	11
62	Effects of IRAS Albedo Correction on the G-Mode Asteroid Taxonomy. <i>Icarus</i> , 1996, 124, 352-354.	2.5	10
63	A portrait of 4979 Otawara, target of the Rosetta space mission. <i>Astronomy and Astrophysics</i> , 2003, 398, 327-333.	5.1	10
64	Spectroscopy and surface properties of (809) Lunda. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 176-184.	4.4	10
65	EURONEAR: First results. <i>Planetary and Space Science</i> , 2008, 56, 1913-1918.	1.7	9
66	Spectral properties of (854) Frostia, (1333) Cevenola and (3623) Chaplin. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 587-595.	4.4	9
67	More than 160 near Earth asteroids observed in the EURONEAR network. <i>Astronomy and Astrophysics</i> , 2010, 511, A40.	5.1	8
68	739 observed NEAs and new 4 m survey statistics within the EURONEAR network. <i>Planetary and Space Science</i> , 2013, 85, 299-311.	1.7	8
69	Rotational properties of asteroids: CCD observations of nine small asteroids. <i>Planetary and Space Science</i> , 1996, 44, 555-558.	1.7	7
70	Dynamic and Physical Considerations on the Asteroids Density. <i>Earth, Moon and Planets</i> , 2000, 88, 1-10.	0.6	7
71	Resolved spectroscopy of Mercury in the near-IR with SpeX/IRTF. <i>Icarus</i> , 2010, 209, 125-137.	2.5	7
72	Mining the CFHT Legacy Survey for known Near Earth Asteroids. <i>Astronomische Nachrichten</i> , 2011, 332, 580-589.	1.2	7

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73	Characterization of (357439) 2004 BL86 on its close approach to Earth in 2015. <i>Astronomy and Astrophysics</i> , 2015, 581, A3.	5.1	7
74	A case study of the May 30, 2017, Italian fireball. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	6
75	Groundbased investigation of asteroid 9969 Braille, target of the spacecraft mission Deep Space 1. <i>Astronomy and Astrophysics</i> , 2001, 375, 281-284.	5.1	6
76	International Asteroid Warning Network Timing Campaign: 2019 XS. <i>Planetary Science Journal</i> , 2022, 3, 156.	3.6	6
77	Rotational properties of main belt asteroids: photoelectric and CCD observations of 15 objects. <i>Planetary and Space Science</i> , 1997, 45, 1423-1435.	1.7	5
78	Massive physical and dynamical characterization of asteroids. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 616-616.	0.0	5
79	2007 Mutual events within the binary system of (22) Kalliope. <i>Planetary and Space Science</i> , 2008, 56, 1851-1856.	1.7	5
80	Apparent close approaches between near-Earth asteroids and quasars. <i>Astronomy and Astrophysics</i> , 2010, 509, A27.	5.1	5
81	Luminous efficiency of meteors derived from ablation model after assessment of its range of validity. <i>Astronomy and Astrophysics</i> , 2021, 652, A84.	5.1	5
82	<title>Remote observing at the NASA Infrared Telescope Facility (IRTF)</title>. , 2002, 4845, 94.		4
83	Photometric and astrometric analysis of a mutual event between the Uranian satellites Miranda and Oberon. <i>Astronomische Nachrichten</i> , 2008, 329, 567-572.	1.2	4
84	Spectral properties of binary asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 5590-5604.	4.4	4
85	Toward a Taxonomy of the Edgeworth-Kuiper Objects: A Multivariate Approach. <i>Earth, Moon and Planets</i> , 2003, 92, 243-250.	0.6	3
86	Volume uncertainty of (7) Iris shape models from disc-resolved images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4545-4560.	4.4	3
87	Solar system observations by remote observing technique: useful experience for robotic telescope strategies. <i>Astronomische Nachrichten</i> , 2004, 325, 571-573.	1.2	2
88	Photometry of asteroids (5141), (43032), (85953), (259221), and (363599) observed at Pic du Midi Observatory. <i>Astronomische Nachrichten</i> , 2018, 339, 198-203.	1.2	2
89	Energy signature of ton TNT-class impacts: analysis of the 2018 December 22 fireball over Western Pyrenees. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5716-5733.	4.4	2
90	Remote observations with FLUOR and the CHARA Array. , 2004, , .		1

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91	Rosetta Asteroid Candidates. Astrophysics and Space Science Library, 2004, , 69-78.	2.7	1
92	Toward a Taxonomy of the Edgeworthâ€™Kuiper Objects: A Multivariate Approach. , 2004, , 243-250.		1
93	Intermediate Stars in Extragalactic Radiosource Fields: Astrometric Measurements. International Astronomical Union Colloquium, 2000, 180, 92-96.	0.1	0
94	Rosetta Asteroid Candidates. Highlights of Astronomy, 2005, 13, 726-728.	0.0	0
95	Relevance of the NEO dedicated observing programs. Comptes Rendus Physique, 2005, 6, 327-335.	0.9	0
96	Asteroid astrometry as a link between ICRF and the Dynamical Reference Frames. Proceedings of the International Astronomical Union, 2007, 3, 328-329.	0.0	0
97	Ground based science of ESAâ€™s Rosetta mission targets: (21) Lutetia and (2867) Steins. AIP Conference Proceedings, 2008, , .	0.4	0
98	Astrometry in the Uranian system of satellites. AIP Conference Proceedings, 2008, , .	0.4	0
99	First light of SOVAG, a spectrograph for visible and near-infrared observation of asteroids. Experimental Astronomy, 2021, 51, 181-192.	3.7	0
100	The Physics of Asteroids and Their Junction with Dynamics. Lecture Notes in Physics, 2010, , 229-250.	0.7	0