

# 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  | International Asteroid Warning Network Timing Campaign: 2019 XS. Planetary Science Journal, 2022, 3, 156.  | 3.6  | 6         |
| 2  | First light of SOVAG, a spectrograph for visible and near-infrared observation of asteroids. Experimental Astronomy, 2021, 51, 181-192.  | 3.7  | 0         |
| 3  | Luminous efficiency based on FRIPON meteors and limitations of ablation models. Astronomy and Astrophysics, 2021, 650, A159.   | 5.1  | 11        |
| 4  | Luminous efficiency of meteors derived from ablation model after assessment of its range of validity. Astronomy and Astrophysics, 2021, 652, A84.  | 5.1  | 5         |
| 5  | (216) Kleopatra, a low density critically rotating M-type asteroid. Astronomy and Astrophysics, 2021, 653, A57.  | 5.1  | 20        |
| 6  | VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. Astronomy and Astrophysics, 2021, 654, A56.   | 5.1  | 50        |
| 7  | Energy signature of ton TNT-class impacts: analysis of the 2018 December 22 fireball over Western Pyrenees. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5716-5733.         | 4.4  | 2         |
| 8  | A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. Nature Astronomy, 2020, 4, 136-141.   | 10.1 | 38        |
| 9  | Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. Astronomy and Astrophysics, 2020, 638, L15.  | 5.1  | 25        |
| 10 | Cavezzo, the first Italian meteorite recovered by the PRISMA fireball network. Orbit, trajectory, and strewn-field. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1215-1227. | 4.4  | 24        |
| 11 | Volume uncertainty of (7) Eris shape models from disc-resolved images. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4545-4560.  | 4.4  | 3         |
| 12 | A case study of the May 30, 2017, Italian fireball. European Physical Journal Plus, 2020, 135, 1.  | 2.6  | 6         |
| 13 | The violent collisional history of aqueously evolved (2) Pallas. Nature Astronomy, 2020, 4, 569-576.   | 10.1 | 26        |
| 14 | (704) Interamnia: a transitional object between a dwarf planet and a typical irregular-shaped minor body. Astronomy and Astrophysics, 2020, 633, A65.  | 5.1  | 14        |
| 15 | Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. Astronomy and Astrophysics, 2020, 641, A80.  | 5.1  | 16        |
| 16 | FRIPON: a worldwide network to track incoming meteoroids. Astronomy and Astrophysics, 2020, 644, A53.  | 5.1  | 58        |
| 17 | Active Asteroid (6478) Gault: A Blue Q-type Surface below the Dust?. Astrophysical Journal Letters, 2019, 882, L2.   | 8.3  | 14        |
| 18 | Homogeneous internal structure of CM-like asteroid (41) Daphne. Astronomy and Astrophysics, 2019, 623, A132.   | 5.1  | 25        |

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|----|---|-----|-----------|
| 19 | The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.   | 5.1 | 12        |
| 20 | 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        |
| 21 | 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        |
| 22 | 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       |
| 23 | 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         |
| 24 | Spectral properties of binary asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 5590-5604.   | 4.4 | 4         |
| 25 | (16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.  | 5.1 | 46        |
| 26 | 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        |
| 27 | Probing the use of spectroscopy to determine the meteoritic analogues of meteors. <i>Astronomy and Astrophysics</i> , 2018, 613, A54.   | 5.1 | 23        |
| 28 | Association between meteor showers and asteroids using multivariate criteria. <i>Astronomy and Astrophysics</i> , 2017, 607, A5.  | 5.1 | 15        |
| 29 | COMPOSITIONAL HOMOGENEITY OF CM PARENT BODIES. <i>Astronomical Journal</i> , 2016, 152, 54.   | 4.7 | 44        |
| 30 | Compositional characterisation of the Themis family. <i>Astronomy and Astrophysics</i> , 2016, 586, A15.  | 5.1 | 29        |
| 31 | Characterization of (357439) 2004 BL86 on its close approach to Earth in 2015. <i>Astronomy and Astrophysics</i> , 2015, 581, A3.   | 5.1 | 7         |
| 32 | INTERPLANETARY DUST PARTICLES AS SAMPLES OF ICY ASTEROIDS. <i>Astrophysical Journal</i> , 2015, 806, 204.   | 4.5 | 85        |
| 33 | Search for horizontal and vertical variations of CO in the day and night side lower mesosphere of Venus from CSHELL/IRTF $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll" \rangle \langle \text{mml:mn} \rangle 4.53 \langle / \text{mml:mn} \rangle \langle \text{mml:mpace width="0.25em" / \rangle \langle \text{mml:mi mathvariant="normal" \rangle } 1/4 \langle / \text{mml:mi} \rangle \langle \text{mml:mi mathvariant="normal" \rangle } m \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ observations. <i>Planetary and Space Science</i> , 2015, 113-114, 256-263. | 1.7 | 30        |
| 34 | The small binary asteroid (939) Isberga. <i>Icarus</i> , 2015, 248, 516-525.  | 2.5 | 12        |
| 35 | Similar origin for low- and high-albedo Jovian Trojans and Hilda asteroids?. <i>Astronomy and Astrophysics</i> , 2014, 568, L7.   | 5.1 | 12        |
| 36 | Selecting asteroids for a targeted spectroscopic survey. <i>Astronomy and Astrophysics</i> , 2014, 572, A29.  | 5.1 | 16        |

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|----|--|------|-----------|
| 37 | Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.               | 3.7  | 47        |
| 38 | MULTIPLE AND FAST: THE ACCRETION OF ORDINARY CHONDRITE PARENT BODIES. <i>Astrophysical Journal</i> , 2014, 791, 120.                                     | 4.5  | 75        |
| 39 | Spectroscopy and surface properties of (809) Lundia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 176-184.                      | 4.4  | 10        |
| 40 | Spectral properties of the largest asteroids associated with Taurid Complex. <i>Astronomy and Astrophysics</i> , 2014, 572, A106.                        | 5.1  | 23        |
| 41 | Evidence for a source of H chondrites in the outer main asteroid belt. <i>Astronomy and Astrophysics</i> , 2014, 567, L7.                                | 5.1  | 12        |
| 42 | 739 observed NEAs and new 2.4 m survey statistics within the EURONEAR network. <i>Planetary and Space Science</i> , 2013, 85, 299-311.                   | 1.7  | 8         |
| 43 | Mining the ESO WFI and INT WFC archives for known Near Earth Asteroids. <i>Mega-Precovery software. Astronomische Nachrichten</i> , 2013, 334, 718-728.  | 1.2  | 11        |
| 44 | Modeling of asteroid spectra – M4AST. <i>Astronomy and Astrophysics</i> , 2012, 544, A130.   | 5.1  | 83        |
| 45 | Overview of Lutetia's surface composition. <i>Planetary and Space Science</i> , 2012, 66, 23-30.   | 1.7  | 29        |
| 46 | Spectral properties of eight near-Earth asteroids. <i>Astronomy and Astrophysics</i> , 2011, 535, A15.   | 5.1  | 21        |
| 47 | 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         |
| 48 | EURONEAR 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        |
| 49 | Asteroid (21) Lutetia as a remnant of Earth's precursor planetesimals. <i>Icarus</i> , 2011, 216, 650-659.   | 2.5  | 45        |
| 50 | Mining the CFHT Legacy Survey for known Near Earth Asteroids. <i>Astronomische Nachrichten</i> , 2011, 332, 580-589.                                     | 1.2  | 7         |
| 51 | A spectral comparison of (379) Huenna and its satellite. <i>Icarus</i> , 2011, 212, 677-681.   | 2.5  | 13        |
| 52 | Resolved spectroscopy of Mercury in the near-IR with SpeX/IRTF. <i>Icarus</i> , 2010, 209, 125-137.  | 2.5  | 7         |
| 53 | Earth encounters as the origin of fresh surfaces on near-Earth asteroids. <i>Nature</i> , 2010, 463, 331-334.  | 27.8 | 143       |
| 54 | More than 160 near Earth asteroids observed in the EURONEAR network. <i>Astronomy and Astrophysics</i> , 2010, 511, A40.                                 | 5.1  | 8         |

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|----|--|------|-----------|
| 55 | Apparent close approaches between near-Earth asteroids and quasars. <i>Astronomy and Astrophysics</i> , 2010, 509, A27.  | 5.1  | 5         |
| 56 | The Physics of Asteroids and Their Junction with Dynamics. <i>Lecture Notes in Physics</i> , 2010, , 229-250.  | 0.7  | 0         |
| 57 | EURONEAR: Data mining of asteroids and Near Earth Asteroids. <i>Astronomische Nachrichten</i> , 2009, 330, 698-707.  | 1.2  | 14        |
| 58 | Solar wind as the origin of rapid reddening of asteroid surfaces. <i>Nature</i> , 2009, 458, 993-995.  | 27.8 | 173       |
| 59 | Spectral properties and composition of potentially hazardous Asteroid (99942) Apophis. <i>Icarus</i> , 2009, 200, 480-485.                                       | 2.5  | 64        |
| 60 | A giant crater on 90 Antiope?. <i>Icarus</i> , 2009, 203, 102-111.   | 2.5  | 21        |
| 61 | 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         |
| 62 | EURONEAR: First results. <i>Planetary and Space Science</i> , 2008, 56, 1913-1918.   | 1.7  | 9         |
| 63 | 2007 Mutual events within the binary system of (22) Kalliope. <i>Planetary and Space Science</i> , 2008, 56, 1851-1856.  | 1.7  | 5         |
| 64 | 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        |
| 65 | Ground based science of ESA's Rosetta mission targets: (21) Lutetia and (2867) Steins. <i>AIP Conference Proceedings</i> , 2008, , .                             | 0.4  | 0         |
| 66 | Astrometry in the Uranian system of satellites. <i>AIP Conference Proceedings</i> , 2008, , .  | 0.4  | 0         |
| 67 | Asteroid astrometry as a link between ICRF and the Dynamical Reference Frames. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 328-329.    | 0.0  | 0         |
| 68 | Spectral properties of nine M-type asteroids. <i>Astronomy and Astrophysics</i> , 2007, 475, 747-754.  | 5.1  | 15        |
| 69 | Near infra-red spectroscopy of the asteroid 21 Lutetia. <i>Astronomy and Astrophysics</i> , 2007, 470, 1157-1164.  | 5.1  | 35        |
| 70 | E-type asteroid (2867) Steins: flyby target for Rosetta. <i>Astronomy and Astrophysics</i> , 2007, 473, L33-L36.   | 5.1  | 21        |
| 71 | Figure of the double Asteroid 90 Antiope from adaptive optics and lightcurve observations. <i>Icarus</i> , 2007, 187, 482-499.                                   | 2.5  | 67        |
| 72 | 832 Karin: Absence of rotational spectral variations. <i>Icarus</i> , 2007, 191, 330-336.  | 2.5  | 11        |

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|----|---|-----|-----------|
| 73 | Physical characterization of the Karin family. <i>Astronomy and Astrophysics</i> , 2006, 460, 945-951.  | 5.1 | 15        |
| 74 | Massive physical and dynamical characterization of asteroids. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 616-616.  | 0.0 | 5         |
| 75 | Modeling asteroid surfaces from observations and irradiation experiments: The case of 832 Karin. <i>Icarus</i> , 2006, 184, 327-337.  | 2.5 | 92        |
| 76 | 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        |
| 77 | Near infra-red spectroscopy of the asteroid 21 Lutetia. <i>Astronomy and Astrophysics</i> , 2006, 454, 677-681.   | 5.1 | 34        |
| 78 | Asteroid target selection for the new Rosetta mission baseline. <i>Astronomy and Astrophysics</i> , 2005, 430, 313-317.   | 5.1 | 84        |
| 79 | Rosetta Asteroid Candidates. <i>Highlights of Astronomy</i> , 2005, 13, 726-728.  | 0.0 | 0         |
| 80 | Relevance of the NEO dedicated observing programs. <i>Comptes Rendus Physique</i> , 2005, 6, 327-335.   | 0.9 | 0         |
| 81 | 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        |
| 82 | 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        |
| 83 | Taxonomy of Centaurs and Trans-Neptunian Objects. <i>Astronomical Journal</i> , 2005, 130, 1291-1298.   | 4.7 | 77        |
| 84 | Solar system observations by remote observing technique: useful experience for robotic telescope strategies. <i>Astronomische Nachrichten</i> , 2004, 325, 571-573.   | 1.2 | 2         |
| 85 | 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        |
| 86 | 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        |
| 87 | Remote observations with FLUOR and the CHARA Array. , 2004, , .   |     | 1         |
| 88 | Rosetta Asteroid Candidates. <i>Astrophysics and Space Science Library</i> , 2004, , 69-78.   | 2.7 | 1         |
| 89 | Toward a Taxonomy of the Edgeworth's Kuiper Objects: A Multivariate Approach. , 2004, , 243-250.  |     | 1         |
| 90 | Toward a Taxonomy of the Edgeworth's Kuiper Objects: A Multivariate Approach. <i>Earth, Moon and Planets</i> , 2003, 92, 243-250.   | 0.6 | 3         |

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|-----|--|-----|-----------|
| 91  | A portrait of 4979 Otawara, target of the Rosetta space mission. <i>Astronomy and Astrophysics</i> , 2003, 398, 327-333.                                   | 5.1 | 10        |
| 92  | <title>Remote observing at the NASA Infrared Telescope Facility (IRTF)</title>. , 2002, 4845, 94.  |     | 4         |
| 93  | Analysis of Trans-Neptunian and Centaur colours: continuous trend or grouping?. <i>Astronomy and Astrophysics</i> , 2001, 371, 1150-1154.                  | 5.1 | 38        |
| 94  | 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         |
| 95  | The Extension of the G-Mode Asteroid Taxonomy. <i>Icarus</i> , 2000, 146, 204-212.   | 2.5 | 27        |
| 96  | Dynamic and Physical Considerations on the Asteroids Density. <i>Earth, Moon and Planets</i> , 2000, 88, 1-10.   | 0.6 | 7         |
| 97  | Intermediate Stars in Extragalactic Radiosource Fields: Astrometric Measurements. <i>International Astronomical Union Colloquium</i> , 2000, 180, 92-96.   | 0.1 | 0         |
| 98  | 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         |
| 99  | Effects of IRAS Albedo Correction on the G-Mode Asteroid Taxonomy. <i>Icarus</i> , 1996, 124, 352-354.   | 2.5 | 10        |
| 100 | Rotational properties of asteroids: CCD observations of nine small asteroids. <i>Planetary and Space Science</i> , 1996, 44, 555-558.                      | 1.7 | 7         |