

Benoit Carry

List of Publications by Year in descending order

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82
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159585

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docs citations

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12089
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifilter photometry of Solar System objects from the SkyMapper Southern Survey. <i>Astronomy and Astrophysics</i> , 2022, 658, A109.	5.1	15
2	Neptune's ring arcs from VLT/SPHERE-IRDIS near-infrared observations. <i>Astronomy and Astrophysics</i> , 2022, 657, A134.	5.1	2
3	<i>Hubble</i> Asteroid Hunter. <i>Astronomy and Astrophysics</i> , 2022, 661, A85.	5.1	11
4	The Debaised 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
5	Dynamics of the binary asteroid (379) Huenna. <i>Icarus</i> , 2022, 382, 115013.	2.5	2
6	Connecting asteroids and meteorites with visible and near-infrared spectroscopy. <i>Icarus</i> , 2022, 380, 114971.	2.5	25
7	Evidence for widely-separated binary asteroids recorded by craters on Mars. <i>Icarus</i> , 2022, 383, 115045.	2.5	1
8	The ESA Hera Mission: Detailed Characterization of the DART Impact Outcome and of the Binary Asteroid (65803) Didymos. <i>Planetary Science Journal</i> , 2022, 3, 160.	3.6	82
9	Asteroid phase curves from ATLAS dual-band photometry. <i>Icarus</i> , 2021, 354, 114094.	2.5	29
10	Evidence for differentiation of the most primitive small bodies. <i>Astronomy and Astrophysics</i> , 2021, 650, A129.	5.1	17
11	The orbit of asteroid (317) Roxane's satellite Olympias from Gemini, Keck, VLT and the SOR, and (22) Kalliope's Linus from the SOR. <i>Icarus</i> , 2021, 358, 114275.	2.5	8
12	Potential asteroid discoveries by the ESA <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2021, 648, A96.	5.1	6
13	A million asteroid observations in the Sloan Digital Sky Survey. <i>Astronomy and Astrophysics</i> , 2021, 652, A59.	5.1	26
14	(216) Kleopatra, a low density critically rotating M-type asteroid. <i>Astronomy and Astrophysics</i> , 2021, 653, A57.	5.1	20
15	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
16	Predicting Asteroid Types: Importance of Individual and Combined Features. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	6
17	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
18	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	5.1	25

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19	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	10.1	26
20	(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
21	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
22	A multi-chord stellar occultation by the large trans-Neptunian object (174567) Varda. <i>Astronomy and Astrophysics</i> , 2020, 643, A125.	5.1	17
23	<i>Euclid</i>: Identification of asteroid streaks in simulated images using StreakDet software. <i>Astronomy and Astrophysics</i> , 2020, 644, A35.	5.1	3
24	The ssos pipeline: Identification of Solar System objects in astronomical images. <i>Astronomy and Computing</i> , 2019, 28, 100289.	1.7	7
25	Identification of asteroids using the Virtual Observatory: the WFCAM Transit Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 3046-3060.	4.4	6
26	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
27	Detecting Solar system objects with convolutional neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5831-5842.	4.4	24
28	The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.	5.1	12
29	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
30	Space Weathering Induced Via Microparticle Impacts: 1. Modeling of Impact Velocities and Flux of Micrometeoroids From Cometary, Asteroidal, and Interstellar Origin in the Main Asteroid Belt and the Near-Earth Environment. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1044-1083.	3.6	2
31	Olivine-dominated A-type asteroids in the main belt: Distribution, abundance and relation to families. <i>Icarus</i> , 2019, 322, 13-30.	2.5	49
32	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
33	Physical, spectral, and dynamical properties of asteroid (107) Camilla and its satellites. <i>Icarus</i> , 2018, 309, 134-161.	2.5	20
34	New polarimetric and spectroscopic evidence of anomalous enrichment in spinel-bearing calcium-aluminium-rich inclusions among L-type asteroids. <i>Icarus</i> , 2018, 304, 31-57.	2.5	34
35	Spectral properties of binary asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 5590-5604.	4.4	4
36	Resurfacing asteroids from YORP spin-up and failure. <i>Icarus</i> , 2018, 304, 162-171.	2.5	22

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37	(16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.	5.1	46
38	Optimizing asteroid orbit computation for Gaia with normal points. <i>Astronomy and Astrophysics</i> , 2018, 620, A101.	5.1	2
39	Mining the Kilo-Degree Survey for solar system objects. <i>Astronomy and Astrophysics</i> , 2018, 610, A21.	5.1	14
40	Short arc orbit determination and imminent impactors in the Gaia era. <i>Astronomy and Astrophysics</i> , 2018, 614, A27.	5.1	16
41	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
42	Solar system science with ESA Euclid. <i>Astronomy and Astrophysics</i> , 2018, 609, A113.	5.1	31
43	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A13.	5.1	78
44	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A1.	5.1	6,364
45	DIFFERENT ORIGINS OR DIFFERENT EVOLUTIONS? DECODING THE SPECTRAL DIVERSITY AMONG C-TYPE ASTEROIDS. <i>Astronomical Journal</i> , 2017, 153, 72.	4.7	55
46	Asteroid shapes and thermal properties from combined optical and mid-infrared photometry inversion. <i>Astronomy and Astrophysics</i> , 2017, 604, A27.	5.1	14
47	3D shape of asteroid (6) Hebe from VLT/SPHERE imaging: Implications for the origin of ordinary H chondrites. <i>Astronomy and Astrophysics</i> , 2017, 604, A64.	5.1	35
48	New and updated convex shape models of asteroids based on optical data from a large collaboration network. <i>Astronomy and Astrophysics</i> , 2016, 586, A108.	5.1	57
49	The Gaia mission. <i>Astronomy and Astrophysics</i> , 2016, 595, A1.	5.1	4,509
50	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2016, 595, A2.	5.1	1,590
51	Prediction of transits of Solar system objects in Kepler/K2 images: an extension of the Virtual Observatory service SkyBoT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3394-3398.	4.4	24
52	The daily processing of asteroid observations by Gaia. <i>Planetary and Space Science</i> , 2016, 123, 87-94.	1.7	17
53	Asteroid orbits with Gaia using random-walk statistical ranging. <i>Planetary and Space Science</i> , 2016, 123, 95-100.	1.7	12
54	Spectral properties of near-Earth and Mars-crossing asteroids using Sloan photometry. <i>Icarus</i> , 2016, 268, 340-354.	2.5	62

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55	VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno. <i>Astronomy and Astrophysics</i> , 2015, 581, L3.	5.1	24
56	The astrometric <i>Gaia</i> -FUN-SSO observation campaign of 99942 Apophis. <i>Astronomy and Astrophysics</i> , 2015, 583, A59.	5.1	11
57	The small binary asteroid (939) Isberga. <i>Icarus</i> , 2015, 248, 516-525.	2.5	12
58	Asteroid Models from Multiple Data Sources. , 2015, , .		15
59	Asteroid Systems: Binaries, Triples, and Pairs. , 2015, , .		30
60	Asteroid Interiors and Morphology. , 2015, , .		31
61	Neptune's ring arcs: VLT/NACO near-infrared observations and a model to explain their stability. <i>Astronomy and Astrophysics</i> , 2014, 563, A133.	5.1	16
62	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47
63	Localized sources of water vapour on the dwarf planet (1) Ceres. <i>Nature</i> , 2014, 505, 525-527.	27.8	301
64	Solar System evolution from compositional mapping of the asteroid belt. <i>Nature</i> , 2014, 505, 629-634.	27.8	362
65	Precovery of near-Earth asteroids by a citizen science project of the Spanish Virtual Observatory. <i>Astronomische Nachrichten</i> , 2014, 335, 142-149.	1.2	15
66	Physical and dynamical properties of the main belt triple Asteroid (87) Sylvia. <i>Icarus</i> , 2014, 239, 118-130.	2.5	32
67	Dwarf planet Ceres: Ellipsoid dimensions and rotational pole from Keck and VLT adaptive optics images. <i>Icarus</i> , 2014, 236, 28-37.	2.5	28
68	Evidence of a metal-rich surface for the Asteroid (16) Psyche from interferometric observations in the thermal infrared. <i>Icarus</i> , 2013, 226, 419-427.	2.5	68
69	The taxonomic distribution of asteroids from multi-filter all-sky photometric surveys. <i>Icarus</i> , 2013, 226, 723-741.	2.5	302
70	Asteroids' physical models from combined dense and sparse photometry and scaling of the YORP effect by the observed obliquity distribution. <i>Astronomy and Astrophysics</i> , 2013, 551, A67.	5.1	59
71	Density of asteroids. <i>Planetary and Space Science</i> , 2012, 73, 98-118.	1.7	453
72	Characterisation of candidate members of (136108) Haumea's family. <i>Astronomy and Astrophysics</i> , 2012, 544, A137.	5.1	18

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73	Shape modeling technique KOALA validated by ESA Rosetta at (21) Lutetia. Planetary and Space Science, 2012, 66, 200-212.	1.7	49
74	Thermal and shape properties of asteroid (21) Lutetia from Herschel observations around the Rosetta flyby. Planetary and Space Science, 2012, 66, 192-199.	1.7	33
75	Images of Asteroid 21 Lutetia: A Remnant Planetesimal from the Early Solar System. Science, 2011, 334, 487-490.	12.6	179
76	Integral-field spectroscopy of (90482) Orcus-Vanth. Astronomy and Astrophysics, 2011, 534, A115.	5.1	36
77	A spectral comparison of (379) Huenna and its satellite. Icarus, 2011, 212, 677-681.	2.5	13
78	Physical properties of the ESA Rosetta target asteroid (21) Lutetia. Astronomy and Astrophysics, 2010, 523, A94.	5.1	50
79	Physical properties of the ESA Rosetta target asteroid (21) Lutetia. Astronomy and Astrophysics, 2010, 523, A93.	5.1	28
80	Physical properties of (2) Pallas. Icarus, 2010, 205, 460-472.	2.5	58
81	Characterisation of candidate members of (136108) Haumea's family. Astronomy and Astrophysics, 2010, 511, A72.	5.1	50
82	Near-infrared mapping and physical properties of the dwarf-planet Ceres. Astronomy and Astrophysics, 2008, 478, 235-244.	5.1	98