

# Benoit Carry

## List of Publications by Year in descending order

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82  
papers

16,174  
citations

159585

30  
h-index

64796

79  
g-index

87  
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87  
docs citations

87  
times ranked

12089  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A1.	5.1	6,364
2	The <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2016, 595, A1.	5.1	4,509
3	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2016, 595, A2.	5.1	1,590
4	Density of asteroids. <i>Planetary and Space Science</i> , 2012, 73, 98-118.	1.7	453
5	Solar System evolution from compositional mapping of the asteroid belt. <i>Nature</i> , 2014, 505, 629-634.	27.8	362
6	The taxonomic distribution of asteroids from multi-filter all-sky photometric surveys. <i>Icarus</i> , 2013, 226, 723-741.	2.5	302
7	Localized sources of water vapour on the dwarf planet (1) Ceres. <i>Nature</i> , 2014, 505, 525-527.	27.8	301
8	Images of Asteroid 21 Lutetia: A Remnant Planetesimal from the Early Solar System. <i>Science</i> , 2011, 334, 487-490.	12.6	179
9	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
10	Near-infrared mapping and physical properties of the dwarf-planet Ceres. <i>Astronomy and Astrophysics</i> , 2008, 478, 235-244.	5.1	98
11	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
12	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A13.	5.1	78
13	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
14	Spectral properties of near-Earth and Mars-crossing asteroids using Sloan photometry. <i>Icarus</i> , 2016, 268, 340-354.	2.5	62
15	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
16	Physical properties of (2) Pallas. <i>Icarus</i> , 2010, 205, 460-472.	2.5	58
17	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
18	DIFFERENT ORIGINS OR DIFFERENT EVOLUTIONS? DECODING THE SPECTRAL DIVERSITY AMONG C-TYPE ASTEROIDS. <i>Astronomical Journal</i> , 2017, 153, 72.	4.7	55

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19	Physical properties of the ESA Rosetta target asteroid (21) Lutetia. <i>Astronomy and Astrophysics</i> , 2010, 523, A94.	5.1	50
20	Characterisation of candidate members of (136108) Haumea's family. <i>Astronomy and Astrophysics</i> , 2010, 511, A72.	5.1	50
21	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
22	Shape modeling technique KOALA validated by ESA Rosetta at (21) Lutetia. <i>Planetary and Space Science</i> , 2012, 66, 200-212.	1.7	49
23	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
24	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47
25	(16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.	5.1	46
26	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
27	Integral-field spectroscopy of (90482) Orcus-Vanth. <i>Astronomy and Astrophysics</i> , 2011, 534, A115.	5.1	36
28	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
29	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
30	Thermal and shape properties of asteroid (21) Lutetia from Herschel observations around the Rosetta flyby. <i>Planetary and Space Science</i> , 2012, 66, 192-199.	1.7	33
31	Physical and dynamical properties of the main belt triple Asteroid (87) Sylvia. <i>Icarus</i> , 2014, 239, 118-130.	2.5	32
32	Solar system science with ESA Euclid. <i>Astronomy and Astrophysics</i> , 2018, 609, A113.	5.1	31
33	Asteroid Interiors and Morphology. , 2015, , .		31
34	Asteroid Systems: Binaries, Triples, and Pairs. , 2015, , .		30
35	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
36	Asteroid phase curves from ATLAS dual-band photometry. <i>Icarus</i> , 2021, 354, 114094.	2.5	29

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37	Physical properties of the ESA Rosetta target asteroid (21) Lutetia. <i>Astronomy and Astrophysics</i> , 2010, 523, A93.	5.1	28
38	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
39	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	10.1	26
40	A million asteroid observations in the Sloan Digital Sky Survey. <i>Astronomy and Astrophysics</i> , 2021, 652, A59.	5.1	26
41	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
42	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	5.1	25
43	Connecting asteroids and meteorites with visible and near-infrared spectroscopy. <i>Icarus</i> , 2022, 380, 114971.	2.5	25
44	VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno. <i>Astronomy and Astrophysics</i> , 2015, 581, L3.	5.1	24
45	Prediction of transits of Solar system objects in <i>Kepler</i> /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
46	Detecting Solar system objects with convolutional neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5831-5842.	4.4	24
47	Resurfacing asteroids from YORP spin-up and failure. <i>Icarus</i> , 2018, 304, 162-171.	2.5	22
48	Physical, spectral, and dynamical properties of asteroid (107) Camilla and its satellites. <i>Icarus</i> , 2018, 309, 134-161.	2.5	20
49	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
50	(216) Kleopatra, a low density critically rotating M-type asteroid. <i>Astronomy and Astrophysics</i> , 2021, 653, A57.	5.1	20
51	Characterisation of candidate members of (136108) Haumea's family. <i>Astronomy and Astrophysics</i> , 2012, 544, A137.	5.1	18
52	The daily processing of asteroid observations by Gaia. <i>Planetary and Space Science</i> , 2016, 123, 87-94.	1.7	17
53	Evidence for differentiation of the most primitive small bodies. <i>Astronomy and Astrophysics</i> , 2021, 650, A129.	5.1	17
54	A multi-chord stellar occultation by the large trans-Neptunian object (174567) Varda. <i>Astronomy and Astrophysics</i> , 2020, 643, A125.	5.1	17

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55	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
56	Short arc orbit determination and imminent impactors in the <i>Gaia</i> era. <i>Astronomy and Astrophysics</i> , 2018, 614, A27.	5.1	16
57	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
58	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
59	Asteroid Models from Multiple Data Sources. , 2015, , .		15
60	Multifilter photometry of Solar System objects from the SkyMapper Southern Survey. <i>Astronomy and Astrophysics</i> , 2022, 658, A109.	5.1	15
61	Asteroid shapes and thermal properties from combined optical and mid-infrared photometry inversion. <i>Astronomy and Astrophysics</i> , 2017, 604, A27.	5.1	14
62	Mining the Kilo-Degree Survey for solar system objects. <i>Astronomy and Astrophysics</i> , 2018, 610, A21.	5.1	14
63	(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
64	A spectral comparison of (379) Huenna and its satellite. <i>Icarus</i> , 2011, 212, 677-681.	2.5	13
65	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
66	The small binary asteroid (939) Isberga. <i>Icarus</i> , 2015, 248, 516-525.	2.5	12
67	Asteroid orbits with Gaia using random-walk statistical ranging. <i>Planetary and Space Science</i> , 2016, 123, 95-100.	1.7	12
68	The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.	5.1	12
69	The astrometric <i>Gaia</i> -FUN-SSO observation campaign of 99942 Apophis. <i>Astronomy and Astrophysics</i> , 2015, 583, A59.	5.1	11
70	<i>Hubble</i> Asteroid Hunter. <i>Astronomy and Astrophysics</i> , 2022, 661, A85.	5.1	11
71	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
72	The ssos pipeline: Identification of Solar System objects in astronomical images. <i>Astronomy and Computing</i> , 2019, 28, 100289.	1.7	7

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73	Identification of asteroids using the Virtual Observatory: the WFCAM Transit Survey. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3046-3060.	4.4	6
74	Potential asteroid discoveries by the ESA <i>Gaia</i> mission. Astronomy and Astrophysics, 2021, 648, A96.	5.1	6
75	Predicting Asteroid Types: Importance of Individual and Combined Features. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	6
76	Spectral properties of binary asteroids. Monthly Notices of the Royal Astronomical Society, 2018, 477, 5590-5604.	4.4	4
77	<i>Euclid</i>: Identification of asteroid streaks in simulated images using StreakDet software. Astronomy and Astrophysics, 2020, 644, A35.	5.1	3
78	Optimizing asteroid orbit computation for Gaiawith normal points. Astronomy and Astrophysics, 2018, 620, A101.	5.1	2
79	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. Journal of Geophysical Research E: Planets, 2019, 124, 1044-1083.	3.6	2
80	Neptune's ring arcs from VLT/SPHERE-IRDIS near-infrared observations. Astronomy and Astrophysics, 2022, 657, A134.	5.1	2
81	Dynamics of the binary asteroid (379) Huenna. Icarus, 2022, 382, 115013.	2.5	2
82	Evidence for widely-separated binary asteroids recorded by craters on Mars. Icarus, 2022, 383, 115045.	2.5	1