

# Benoît Noyelles

## List of Publications by Year in descending order

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41  
papers

596  
citations

687363

13  
h-index

642732

23  
g-index

43  
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43  
docs citations

43  
times ranked

531  
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraints on Mimas's interior from Cassini ISS libration measurements. <i>Science</i> , 2014, 346, 322-324.	12.6	65
2	Spin-orbit evolution of Mercury revisited. <i>Icarus</i> , 2014, 241, 26-44.	2.5	62
3	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. <i>Planetary and Space Science</i> , 2014, 104, 122-140.	1.7	56
4	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012, 33, 753-791.	3.7	44
5	A numerical exploration of Miranda's dynamical history. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 1776-1787.	4.4	27
6	Obliquity evolution of the minor satellites of Pluto and Charon. <i>Icarus</i> , 2017, 293, 94-113.	2.5	27
7	Astrometric reduction of lightcurves observed during the APHESAT95 campaign of Saturnian satellites. <i>Astronomy and Astrophysics</i> , 2003, 401, 1159-1175.	5.1	24
8	The PHEMU09 catalogue and astrometric results of the observations of the mutual occultations and eclipses of the Galilean satellites of Jupiter made in 2009. <i>Astronomy and Astrophysics</i> , 2014, 572, A120.	5.1	24
9	Latitudinal librations of Mercury with a fluid core. <i>Icarus</i> , 2009, 203, 1-12.	2.5	22
10	Titan's rotation. <i>Astronomy and Astrophysics</i> , 2008, 478, 959-970.	5.1	20
11	GETEMME—a mission to explore the Martian satellites and the fundamentals of solar system physics. <i>Experimental Astronomy</i> , 2012, 34, 243-271.	3.7	17
12	Core-mantle interactions for Mercury. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 479-496.	4.4	15
13	Theory of the rotation of Janus and Epimetheus. <i>Icarus</i> , 2010, 207, 887-902.	2.5	14
14	Interpreting the librations of a synchronous satellite — How their phase assesses Mimas's global ocean. <i>Icarus</i> , 2017, 282, 276-289.	2.5	14
15	Titan's rotational state. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008, 101, 13-30.	1.4	13
16	Expression of Cassini's third law for Callisto, and theory of its rotation. <i>Icarus</i> , 2009, 202, 225-239.	2.5	13
17	The PHEMU03 catalogue of observations of the mutual phenomena of the Galilean satellites of Jupiter. <i>Astronomy and Astrophysics</i> , 2009, 493, 1171-1182.	5.1	13
18	Tilting Styx and Nix but not Uranus with a Spin-Precession-Mean-motion resonance. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2018, 130, 1.	1.4	12

#	ARTICLE	IF	CITATIONS
19	New evidence of precision premium for Galilean satellites from CCD imaging. Planetary and Space Science, 2008, 56, 1807-1811.	1.7	10
20	Behavior of nearby synchronous rotations of a Poincaré-Hough satellite at low eccentricity. Celestial Mechanics and Dynamical Astronomy, 2012, 112, 353-383.	1.4	9
21	Strong tidal energy dissipation in Saturn at Titan's frequency as an explanation for Iapetus orbit. Astronomy and Astrophysics, 2018, 619, A133.	5.1	9
22	Interior properties of the inner saturnian moons from space astrometry data. Icarus, 2019, 326, 48-62.	2.5	9
23	The influence of orbital dynamics, shape and tides on the obliquity of Mercury. Advances in Space Research, 2013, 52, 2085-2101.	2.6	8
24	Formation of the Cassini Division I. Shaping the rings by Mimas inward migration. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2933-2946.	4.4	8
25	Chaos induced by De Haerdtl inequality in the Galilean system. Icarus, 2007, 190, 594-607.	2.5	7
26	The rotation of Mimas. Astronomy and Astrophysics, 2011, 536, A61.	5.1	7
27	Formation of the Cassini Division II. Possible histories of Mimas and Enceladus. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2947-2963.	4.4	7
28	Determination of an instantaneous Laplace plane for Mercury's rotation. Advances in Space Research, 2009, 44, 597-603.	2.6	6
29	New constraints on the physical properties and dynamical history of Centaur 174P/Echeclus. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3444-3460.	4.4	5
30	$N_{2}$ fluorescence spectrum of comet C/2016 R2 (PanSTARRS). Astronomy and Astrophysics, 2022, 661, A131.	5.1	5
31	The rotation of Io predicted by the Poincaré-Hough model. Icarus, 2013, 223, 621-624.	2.5	4
32	New clues on the interior of Titan from its rotation state. Proceedings of the International Astronomical Union, 2014, 9, 17-20.	0.0	4
33	The $k:k+4$ resonances in planetary systems. Proceedings of the International Astronomical Union, 2004, 2004, 453-458.	0.0	3
34	Rotation of a synchronous viscoelastic shell. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5614-5644.	4.4	3
35	Observation of 13 mutual events of Jovian satellites performed at Lille Observatory. Astronomy and Astrophysics, 2003, 410, 343-347.	5.1	3
36	A secondary resonance in Mercury's rotation. Celestial Mechanics and Dynamical Astronomy, 2010, 107, 93-100.	1.4	2

#	ARTICLE	IF	CITATIONS
37	Modeling the obliquity of Mercury. Planetary and Space Science, 2012, 60, 274-286.	1.7	2
38	Chaos over Order: Mapping 3D Rotation of Triaxial Asteroids and Minor Planets. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2
39	Eclipses and Occultations of Galilean Satellites Observed at Yunnan Observatory in 2003. Research in Astronomy and Astrophysics, 2007, 7, 317-324.	1.1	1
40	Theory of the rotation of the Galilean satellites. Proceedings of the International Astronomical Union, 2010, 6, 240-244.	0.0	0
41	Revisiting the capture of Mercury into its 3:2 spin-orbit resonance. Proceedings of the International Astronomical Union, 2014, 9, 33-34.	0.0	0