

Noemi Pinilla-Alonso

List of Publications by Year in descending order

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86
papers

2,641
citations

218677

26
h-index

197818

49
g-index

87
all docs

87
docs citations

87
times ranked

2180
citing authors

#	ARTICLE	IF	CITATIONS
1	Water ice and organics on the surface of the asteroid 24 Themis. <i>Nature</i> , 2010, 464, 1320-1321.	27.8	312
2	Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.	12.6	182
3	The methane ice rich surface of large TNO 2005 FY9: a Pluto-twin in the trans-neptunian belt?. <i>Astronomy and Astrophysics</i> , 2006, 445, L35-L38.	5.1	114
4	(65) Cybele: detection of small silicate grains, water-ice, and organics. <i>Astronomy and Astrophysics</i> , 2011, 525, A34.	5.1	101
5	Albedo and atmospheric constraints of dwarf planet Makemake from a stellar occultation. <i>Nature</i> , 2012, 491, 566-569.	27.8	95
6	Observations, compositional, and physical characterization of near-Earth and Mars-crosser asteroids from a spectroscopic survey. <i>Astronomy and Astrophysics</i> , 2010, 517, A23.	5.1	94
7	Possible ring material around centaur (2060) Chiron. <i>Astronomy and Astrophysics</i> , 2015, 576, A18.	5.1	92
8	The nature of comet-asteroid transition object (3200) Phaethon. <i>Astronomy and Astrophysics</i> , 2007, 461, 751-757.	5.1	90
9	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. <i>Nature</i> , 2008, 451, 437-440.	27.8	82
10	Near-infrared spectroscopic survey of B-type asteroids: Compositional analysis. <i>Icarus</i> , 2012, 218, 196-206.	2.5	70
11	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. <i>Icarus</i> , 2013, 226, 663-670.	2.5	63
12	Visible spectroscopy of 2003 UB313: evidence for N ₂ ice on the surface of the largest TNO?. <i>Astronomy and Astrophysics</i> , 2006, 458, L5-L8.	5.1	60
13	The surface of (136108) Haumea (2003 EL ₆₁), the largest carbon-depleted object in the trans-Neptunian belt. <i>Astronomy and Astrophysics</i> , 2009, 496, 547-556.	5.1	57
14	Chelyabinsk meteorite explains unusual spectral properties of Baptistina Asteroid Family. <i>Icarus</i> , 2014, 237, 116-130.	2.5	54
15	Testing the comet nature of main belt comets. The spectra of 133P/Elst-Pizarro and 176P/LINEAR. <i>Astronomy and Astrophysics</i> , 2011, 532, A65.	5.1	52
16	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2014, 564, A92.	5.1	50
17	Nuclear Spectra of Comet 162P/Siding Spring (2004 TU12). <i>Astronomical Journal</i> , 2006, 132, 1346-1353.	4.7	38
18	Aromatic and aliphatic organic materials on Iapetus: Analysis of Cassini VIMS data. <i>Icarus</i> , 2014, 233, 306-315.	2.5	37

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19	Spectral properties of asteroids in cometary orbits. <i>Astronomy and Astrophysics</i> , 2008, 481, 861-877.	5.1	37
20	Photometric and spectroscopic evidence for a dense ring system around Centaur Chariklo. <i>Astronomy and Astrophysics</i> , 2014, 568, A79.	5.1	36
21	Distribution of CO ₂ ice on the large moons of Uranus and evidence for compositional stratification of their near-surfaces. <i>Icarus</i> , 2015, 257, 428-456.	2.5	36
22	Physical properties of B-type asteroids from WISE data. <i>Astronomy and Astrophysics</i> , 2013, 554, A71.	5.1	34
23	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
24	Red material on the large moons of Uranus: Dust from the irregular satellites?. <i>Icarus</i> , 2018, 314, 210-231.	2.5	34
25	Visible spectroscopy of the Polana–Eulalia family complex: Spectral homogeneity. <i>Icarus</i> , 2016, 266, 57-75.	2.5	33
26	Compositional study of asteroids in the Erigone collisional family using visible spectroscopy at the 10.4-m GTC. <i>Astronomy and Astrophysics</i> , 2016, 586, A129.	5.1	29
27	Organic materials in planetary and protoplanetary systems: nature or nurture?. <i>Astronomy and Astrophysics</i> , 2011, 533, A98.	5.1	27
28	The spectrum of (136199) Eris between 350 and 2350 nm: results with X-Shooter. <i>Astronomy and Astrophysics</i> , 2011, 532, A130.	5.1	26
29	Iapetus surface variability revealed from statistical clustering of a VIMS mosaic: The distribution of CO ₂ . <i>Icarus</i> , 2011, 215, 75-82.	2.5	26
30	The water ice rich surface of (145453) 2005 RR ₄₃ : a case for a carbon-depleted population of TNOs?. <i>Astronomy and Astrophysics</i> , 2007, 468, L25-L28.	5.1	26
31	Portrait of the Polana–Eulalia family complex: Surface homogeneity revealed from near-infrared spectroscopy. <i>Icarus</i> , 2016, 274, 231-248.	2.5	24
32	A peculiar family of Jupiter Trojans: The Eurybates. <i>Icarus</i> , 2010, 209, 586-590.	2.5	23
33	PRIMASS visits Hilda and Cybele groups. <i>Icarus</i> , 2018, 311, 35-51.	2.5	23
34	Expected spectral characteristics of (101955) Bennu and (162173) Ryugu, targets of the OSIRIS-REx and Hayabusa2 missions. <i>Icarus</i> , 2018, 313, 25-37.	2.5	23
35	The Inhomogeneous Surface of Centaur 32522 Thereus (2001 PT 13). <i>Astrophysical Journal</i> , 2005, 630, L93-L96.	4.5	21
36	New observations of asteroid (175706) 1996 FG3, primary target of the ESA Marco Polo-R mission. <i>Astronomy and Astrophysics</i> , 2011, 530, L12.	5.1	21

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37	A compositional interpretation of trans-neptunian objects taxonomies. <i>Icarus</i> , 2013, 222, 307-322.	2.5	21
38	Differences between the Pallas collisional family and similarly sized B-type asteroids. <i>Astronomy and Astrophysics</i> , 2016, 591, A14.	5.1	20
39	Trans-neptunian object (55636) 2002 TX ₃₀₀ , a fresh icy surface in the outer solar system. <i>Astronomy and Astrophysics</i> , 2006, 457, 329-333.	5.1	20
40	Absolute magnitudes and phase coefficients of trans-Neptunian objects. <i>Astronomy and Astrophysics</i> , 2016, 586, A155.	5.1	19
41	Near-infrared spectroscopy of 1999 JU3, the target of the Hayabusa 2 mission. <i>Astronomy and Astrophysics</i> , 2013, 552, A79.	5.1	18
42	Rotationally resolved spectroscopy of dwarf planet (136472) Makemake. <i>Astronomy and Astrophysics</i> , 2015, 577, A86.	5.1	18
43	Hungaria asteroid region telescopic spectral survey (HARTSS) I: Stony asteroids abundant in the Hungaria background population. <i>Icarus</i> , 2017, 291, 268-287.	2.5	18
44	Visible spectroscopy of the Sulamitis and Clarissa primitive families: a possible link to Erigone and Polana. <i>Astronomy and Astrophysics</i> , 2018, 610, A25.	5.1	18
45	A new investigation of hydration in the M-type asteroids. <i>Icarus</i> , 2015, 252, 186-198.	2.5	16
46	Hungaria asteroid region telescopic spectral survey (HARTSS) II: Spectral homogeneity among Hungaria family asteroids. <i>Icarus</i> , 2019, 322, 227-250.	2.5	16
47	The last pieces of the primitive inner belt puzzle: Klio, Chaldaea, Chimaera, and Svea. <i>Astronomy and Astrophysics</i> , 2019, 630, A141.	5.1	16
48	The spectrum of Pluto, 0.40–0.93 μ m. <i>Astronomy and Astrophysics</i> , 2016, 585, A131.	5.1	15
49	Probing the regoliths of the classical Uranian satellites: Are their surfaces mantled by a layer of tiny H ₂ O ice grains?. <i>Icarus</i> , 2020, 338, 113513.	2.5	15
50	Visible spectroscopy in the neighborhood of 2003EL ₆₁ . <i>Astronomy and Astrophysics</i> , 2008, 489, 455-458.	5.1	15
51	Multi-wavelength spectral study of asteroids in cometary orbits. <i>Advances in Space Research</i> , 2006, 38, 1991-1994.	2.6	14
52	The trans-Neptunian object size distribution at small sizes. <i>Astronomy and Astrophysics</i> , 2009, 500, 909-916.	5.1	14
53	James Webb Space Telescope Observations of Stellar Occultations by Solar System Bodies and Rings. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018011.	3.1	13
54	Visible and near-infrared observations of asteroid 2012 DA14 during its closest approach of February 15, 2013. <i>Astronomy and Astrophysics</i> , 2013, 555, L2.	5.1	12

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55	Surface composition and dynamical evolution of two retrograde objects in the outer solar system: 2008 YB ₃ and 2005 VD. <i>Astronomy and Astrophysics</i> , 2013, 550, A13.	5.1	12
56	Physical Characterization of TNOs with the <i>James Webb Space Telescope</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018010.	3.1	11
57	Visible and near-infrared observations of interstellar comet 2I/Borisov with the 10.4-m GTC and the 3.6-m TNG telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2053-2062.	4.4	11
58	Nuclear Spectra of Comet 28P Neujmin 1. <i>Astronomical Journal</i> , 2007, 134, 1626-1633.	4.7	10
59	Additional spectra of asteroid 1996 FG3, backup target of the ESA <i>MarcoPolo-R</i> mission. <i>Astronomy and Astrophysics</i> , 2013, 556, A33.	5.1	10
60	Rotationally resolved spectroscopy of (20000) Varuna in the near-infrared. <i>Astronomy and Astrophysics</i> , 2014, 562, A85.	5.1	10
61	Analysis in the visible range of NASA Lucy mission targets: Eurybates, Polymele, Orus and Donaldjohanson.. <i>Icarus</i> , 2020, 338, 113463.	2.5	10
62	Compositional characterization of V-type candidate asteroids identified using the MOVIS catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3866-3875.	4.4	9
63	Spitzer's Solar System studies of comets, centaurs and Kuiper belt objects. <i>Nature Astronomy</i> , 2020, 4, 930-939.	10.1	9
64	Near-infrared Methanol Bands Probe Energetic Processing of Icy Outer Solar System Objects. <i>Astrophysical Journal Letters</i> , 2020, 894, L3.	8.3	8
65	Infrared astronomical characteristics of the Roque de los Muchachos Observatory: precipitable water vapour statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	7
66	Compositional Study of Trans-Neptunian Objects at $\lambda = 2.2 \mu\text{m}$. <i>Planetary Science Journal</i> , 2021, 2, 10.	3.6	7
67	Near-infrared spectroscopy of the Klio primitive inner-belt asteroid family. <i>Icarus</i> , 2020, 335, 113427.	2.5	6
68	The spectroscopic properties of the Lixiaohua family, cradle of Main Belt Comets. <i>Icarus</i> , 2020, 338, 113473.	2.5	6
69	Near-infrared spectroscopy of the Sulamitis asteroid family: Surprising similarities in the inner belt primitive asteroid population. <i>Icarus</i> , 2021, 358, 114210.	2.5	6
70	A comparative analysis of the outer-belt primitive families. <i>Astronomy and Astrophysics</i> , 2020, 643, A102.	5.1	6
71	Spectral properties of asteroids in cometary orbits. <i>Astronomy and Astrophysics</i> , 2008, 487, 1195-1196.	5.1	5
72	The Changing Rotational Light-curve Amplitude of Varuna and Evidence for a Close-in Satellite. <i>Astrophysical Journal Letters</i> , 2019, 883, L21.	8.3	5

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73	Precipitable water vapour content above the Roque de los Muchachos Observatory from GPS estimations. , 2009, , .		4
74	Disrupted Asteroid P/2016 G1. II. Follow-up Observations from the Hubble Space Telescope. Astronomical Journal, 2017, 154, 248.	4.7	4
75	Spectral clustering tools applied to Ceres in preparation for OSIRIS-REx color imaging of asteroid (101955) Bennu. Icarus, 2019, 328, 69-81.	2.5	4
76	Near Infrared Spectra of two Asteroids with low Tisserand Invariant. Earth, Moon and Planets, 2006, 97, 203-212.	0.6	3
77	Surface Ice and Tholins on the Extreme Centaur 2012 DR ₃₀ . Astronomical Journal, 2018, 155, 170.	4.7	3
78	Surface properties of large TNOs: Expanding the study to longer wavelengths with the James Webb Space Telescope. , 2020, , 395-412.		3
79	The dwarf planet Makemake as seen by X-Shooter. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5473-5479.	4.4	3
80	Near-infrared spectroscopy of the Chaldaea asteroid family: Possible link to the Klio family. Icarus, 2021, 354, 114028.	2.5	3
81	Spectral diversity of the inner belt primitive asteroid background population. Icarus, 2021, 368, 114619.	2.5	2
82	Icy Dwarf Planets: Colored Popsicles in the Outer Solar System. Proceedings of the International Astronomical Union, 2015, 11, 241-246.	0.0	1
83	The Diverse Population of Small Bodies of the Solar System. , 2018, , 395-419.		1
84	The Diverse Population of Small Bodies of the Solar System. , 2017, , 1-25.		0
85	Activity of the Jupiter co-orbital comet P/2019 LD2 (ATLAS) observed with OSIRIS at the 10.4 m GTC. Astronomy and Astrophysics, 2021, 650, A79.	5.1	0
86	Physical and dynamical characterization of hyperbolic comet C/2017 U7 (PANSTARRS). Icarus, 2022, 377, 114834.	2.5	0