

# Paolo Tanga

## List of Publications by Year in descending order

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121  
papers

17,733  
citations

126907

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17592

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all docs

132  
docs citations

132  
times ranked

12114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asteroid astrometry by stellar occultations: Accuracy of the existing sample from orbital fitting. <i>Astronomy and Astrophysics</i> , 2022, 658, A73.	5.1	5
2	Interior of top-shaped asteroids with cohesionless surface. <i>Icarus</i> , 2022, 378, 114914.	2.5	12
3	Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact. <i>Planetary Science Journal</i> , 2022, 3, 157.	3.6	23
4	All-sky visible and near infrared space astrometry. <i>Experimental Astronomy</i> , 2021, 51, 783-843.	3.7	13
5	Potential asteroid discoveries by the ESA <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2021, 648, A96.	5.1	6
6	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
7	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
8	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	5.1	25
9	Volume uncertainty of (7) Iris shape models from disc-resolved images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4545-4560.	4.4	3
10	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. <i>Astronomical Journal</i> , 2020, 159, 130.	4.7	25
11	The role of fragment shapes in the simulations of asteroids as gravitational aggregates. <i>Icarus</i> , 2020, 350, 113871.	2.5	17
12	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	10.1	26
13	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
14	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
15	New Evidence for a Physical Link between Asteroids (155140) 2005 UD and (3200) Phaethon*. <i>Planetary Science Journal</i> , 2020, 1, 15.	3.6	21
16	A survey for occultation astrometry of main belt: expected astrometric performances. <i>Astronomy and Astrophysics</i> , 2020, 641, A81.	5.1	2
17	Ground-based visible spectroscopy of asteroids to support the development of an unsupervised Gaia asteroid taxonomy. <i>Astronomy and Astrophysics</i> , 2020, 642, A80.	5.1	7
18	Inversion of HIPPARCOS and <i>Gaia</i> photometric data for asteroids. <i>Astronomy and Astrophysics</i> , 2019, 631, A67.	5.1	6

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19	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
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	BrangÅne: a new family of Barbarian asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 570-576.	4.4	6
22	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
23	<i>GAIA</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A17.	5.1	495
24	<i>GAIA</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A11.	5.1	323
25	Optimizing asteroid orbit computation for <i>Gaia</i> with normal points. <i>Astronomy and Astrophysics</i> , 2018, 620, A101.	5.1	2
26	Short arc orbit determination and imminent impactors in the <i>GAIA</i> era. <i>Astronomy and Astrophysics</i> , 2018, 614, A27.	5.1	16
27	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
28	<i>GAIA</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A13.	5.1	78
29	<i>GAIA</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A14.	5.1	140
30	<i>GAIA</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A10.	5.1	638
31	<i>GAIA</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A1.	5.1	6,364
32	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. <i>Astronomical Journal</i> , 2018, 156, 20.	4.7	39
33	<i>GAIA</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A12.	5.1	491
34	The thermal structure of the Venus atmosphere: Intercomparison of Venus Express and ground based observations of vertical temperature and density profiles. <i>Icarus</i> , 2017, 294, 124-155.	2.5	34
35	Study of the Plutino Object (208996) 2003 AZ <sub>84</sub> from Stellar Occultations: Size, Shape, and Topographic Features. <i>Astronomical Journal</i> , 2017, 154, 22.	4.7	31
36	The Zadko Telescope: Exploring the Transient Universe. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	3.4	5

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37	Using Gaia spectrophotometric data for the purposes of asteroid taxonomy. Proceedings of the International Astronomical Union, 2017, 12, 399-400.	0.0	0
38	Ground-based astrometry calibrated by <i>Gaia</i> DR1: new perspectives in asteroid orbit determination. Astronomy and Astrophysics, 2017, 607, A21.	5.1	9
39	Shape and spin determination of Barbarian asteroids. Astronomy and Astrophysics, 2017, 607, A119.	5.1	5
40	Small solar system bodies as granular systems. EPJ Web of Conferences, 2017, 140, 14011.	0.3	1
41	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78
42	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
43	The Calern Asteroid Polarimetric Survey using the Torino polarimeter: assessment of instrument performances and first scientific results. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4335-4347.	4.4	16
44	Effect of turbulence on collisions of dust particles with planetesimals in protoplanetary disks. Astronomy and Astrophysics, 2016, 589, A129.	5.1	21
45	The <i>Gaia</i> mission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
46	Multilayer modeling of the aureole photometry during the Venus transit: comparison between SDO/HMI and VEX/SOIR data. Astronomy and Astrophysics, 2016, 595, A115.	5.1	5
47	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2016, 595, A3.	5.1	85
48	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2016, 595, A2.	5.1	1,590
49	The daily processing of asteroid observations by Gaia. Planetary and Space Science, 2016, 123, 87-94.	1.7	17
50	Asteroid orbits with Gaia using random-walk statistical ranging. Planetary and Space Science, 2016, 123, 95-100.	1.7	12
51	Visible spectroscopy of the Polanaâ€“Eulalia family complex: Spectral homogeneity. Icarus, 2016, 266, 57-75.	2.5	33
52	A polarimetric study of asteroids: fitting phaseâ€“polarization curves. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2091-2100.	4.4	24
53	A method to search for large-scale concavities in asteroid shape models. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2233-2241.	4.4	8
54	New view on exoplanet transits. Astronomy and Astrophysics, 2015, 576, A13.	5.1	7

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55	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
56	Analysis of the kinematics of ejecta created after a catastrophic collision. <i>Planetary and Space Science</i> , 2015, 118, 285-295.	1.7	2
57	On the calibration of the relation between geometric albedo and polarimetric properties for the asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3473-3488.	4.4	46
58	The non-convex shape of (234) Barbara, the first Barbarian*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 3382-3390.	4.4	12
59	Testing the inversion of asteroids' Gaia photometry combined with ground-based observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 333-341.	4.4	22
60	COUPLED SPIN AND SHAPE EVOLUTION OF SMALL RUBBLE-PILE ASTEROIDS: SELF-LIMITATION OF THE YORP EFFECT. <i>Astrophysical Journal</i> , 2015, 803, 25.	4.5	51
61	Gaia-GOSA: An interactive service for asteroid follow-up observations. <i>EAS Publications Series</i> , 2014, 67-68, 109-112.	0.3	2
62	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47
63	Predictions for the detection of Earth and Mars Trojan asteroids by the Gaia satellite. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 4019-4026.	4.4	5
64	A successful search for hidden Barbarians in the Watsonia asteroid family. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 439, L75-L79.	3.3	28
65	Activity of Comet 103P/Hartley 2 at the time of the EPOXI mission fly-by. <i>Icarus</i> , 2013, 222, 766-773.	2.5	5
66	THE SIZE, SHAPE, ALBEDO, DENSITY, AND ATMOSPHERIC LIMIT OF TRANSNEPTUNIAN OBJECT (50000) QUAOAR FROM MULTI-CHORD STELLAR OCCULTATIONS. <i>Astrophysical Journal</i> , 2013, 773, 26.	4.5	79
67	Australian Participation in the Gaia Follow-up Network for Solar System Objects. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, .	3.4	1
68	Colors of Jupiter's large anticyclones and the interaction of a Tropical Red Oval with the Great Red Spot in 2008. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2537-2557.	3.6	15
69	Astrometric results of observations of mutual occultations and eclipses of the Uranian satellites in 2007. <i>Astronomy and Astrophysics</i> , 2013, 557, A4.	5.1	13
70	Venus transit, aureole and solar diameter. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 485-486.	0.0	1
71	The representation of asteroid shapes: A test for the inversion of Gaia photometry. <i>Planetary and Space Science</i> , 2012, 73, 80-85.	1.7	16
72	The Solar System as seen by Gaia: The asteroids and their accuracy budget. <i>Planetary and Space Science</i> , 2012, 73, 5-9.	1.7	23

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73	Asteroid spectroscopy with Gaia. Planetary and Space Science, 2012, 73, 86-94.	1.7	30
74	A single-shot optical linear polarimeter for asteroid studies. Proceedings of SPIE, 2012, , .	0.8	8
75	Transmission spectrum of Venus as a transiting exoplanet. Astronomy and Astrophysics, 2012, 537, L2.	5.1	51
76	An optimal Earth Trojan asteroid search strategy. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 420, L28-L32.	3.3	10
77	Sunlight refraction in the mesosphere of Venus during the transit on June 8th, 2004. Icarus, 2012, 218, 207-219.	2.5	23
78	An optimal Mars Trojan asteroid search strategy. Monthly Notices of the Royal Astronomical Society, 2012, 424, 372-376.	4.4	31
79	Determination of physical properties of the Asteroid (41) Daphne from interferometric observations in the thermal infrared. Icarus, 2011, 215, 47-56.	2.5	22
80	<i>EPOXI</i>: COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. Astrophysical Journal Letters, 2011, 734, L1.	8.3	96
81	Solar System science: Gaia and other forthcoming surveys. EAS Publications Series, 2010, 45, 225-230.	0.3	2
82	Complementary ground-based observations for Solar System applications. EAS Publications Series, 2010, 45, 237-242.	0.3	1
83	The Gaia Mission and the Asteroids. Lecture Notes in Physics, 2010, , 251-340.	0.7	11
84	Genetic inversion of sparse disk-integrated photometric data of asteroids: application to Hipparcos data. Astronomy and Astrophysics, 2009, 506, 935-954.	5.1	34
85	RUBBLE-PILE RESHAPING REPRODUCES OVERALL ASTEROID SHAPES. Astrophysical Journal, 2009, 706, L197-L202.	4.5	32
86	Thermal inertia of main belt asteroids smaller than 100km from IRAS data. Planetary and Space Science, 2009, 57, 259-265.	1.7	93
87	Asteroid rotation and shapes from numerical simulations of gravitational re-accumulation. Planetary and Space Science, 2009, 57, 193-200.	1.7	14
88	Gaia and the asteroids: Local test of GR. Proceedings of the International Astronomical Union, 2009, 5, 325-330.	0.0	6
89	On the detection of the Yarkovsky effect on near-Earth asteroids by means of Gaia. Planetary and Space Science, 2008, 56, 1823-1827.	1.7	7
90	Gaia, an unprecedented observatory for Solar System dynamics. Planetary and Space Science, 2008, 56, 1812-1818.	1.7	7

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91	Asteroid occultations today and tomorrow: toward the GAIA era. <i>Astronomy and Astrophysics</i> , 2007, 474, 1015-1022.	5.1	29
92	Reference frame linking and tests of GR with Gaia astrometry of asteroids. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 266-267.	0.0	1
93	Formes d'astéroïdes et formation de satellites : rôle de la coaccumulation gravitationnelle. <i>Comptes Rendus Physique</i> , 2007, 8, 469-480.	0.9	1
94	Asteroid science with Gaia: Sizes, spin properties, overall shapes and taxonomy. <i>Advances in Space Research</i> , 2007, 40, 202-208.	2.6	13
95	The Gaia Mission: Expected Applications to Asteroid Science. <i>Earth, Moon and Planets</i> , 2007, 101, 97-125.	0.6	82
96	Gaia observations of Solar System objects: Impact on dynamics and ground-based observations. <i>Advances in Space Research</i> , 2007, 40, 209-214.	2.6	8
97	Asteroids from Observations to Models. <i>Lecture Notes in Physics</i> , 2006, , 89-116.	0.7	2
98	Rotational properties of asteroids from Gaia disk-integrated photometry: A "genetic" algorithm. <i>Advances in Space Research</i> , 2006, 38, 2000-2005.	2.6	13
99	The PHEMU97 catalogue of observations of the mutual phenomena of the Galilean satellites of Jupiter. <i>Astronomy and Astrophysics</i> , 2006, 451, 733-737.	5.1	14
100	THE EXPECTED ROLE OF GAIA FOR ASTEROID SCIENCE. , 2006, , 299-316.		2
101	Gravitational instability and clustering in a disk of planetesimals. <i>Astronomy and Astrophysics</i> , 2004, 427, 1105-1115.	5.1	27
102	Photocentre offset in ultraprecise astrometry: Implications for barycentre determination and asteroid modelling. <i>Astronomy and Astrophysics</i> , 2004, 416, 367-373.	5.1	13
103	The shallow magnitude distribution of asteroid families. <i>Icarus</i> , 2003, 162, 328-336.	2.5	31
104	Speckle interferometry observations of asteroids at tng. <i>Icarus</i> , 2003, 162, 278-284.	2.5	14
105	Asteroid observations with the Hubble Space Telescope FGS. <i>Astronomy and Astrophysics</i> , 2003, 401, 733-741.	5.1	23
106	Asteroid (216) Kleopatra. <i>Astronomy and Astrophysics</i> , 2002, 392, 729-733.	5.1	15
107	Asteroids observations with the Hubble Space Telescope FGS. <i>Astronomy and Astrophysics</i> , 2002, 391, 1123-1132.	5.1	14
108	Formation of Asteroid Families by Catastrophic Disruption: Simulations with Fragmentation and Gravitational Reaccumulation. <i>Icarus</i> , 2002, 160, 10-23.	2.5	90

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109	Planetesimal clusters in a Keplerian disk. <i>Astronomy and Astrophysics</i> , 2002, 395, 613-623.	5.1	4
110	The Role of Families in Determining Collision Probability in the Asteroid Main Belt. <i>Icarus</i> , 2001, 153, 52-60.	2.5	12
111	HST/FGS Observations of the Asteroid (216) Kleopatra. <i>Icarus</i> , 2001, 153, 451-454.	2.5	30
112	Collisions and Gravitational Reaccumulation: Forming Asteroid Families and Satellites. <i>Science</i> , 2001, 294, 1696-1700.	12.6	257
113	<title>Spaceguard-1: a space-based observatory for NEO physical characterization and discovery</title>. , 2000, 4013, 433.		7
114	Estimated Abundance of Atens and Asteroids Evolving on Orbits between Earth and Sun. <i>Icarus</i> , 2000, 143, 421-424.	2.5	40
115	On the Size Distribution of Asteroid Families: The Role of Geometry. <i>Icarus</i> , 1999, 141, 65-78.	2.5	124
116	The Velocityâ€“Size Relationship for Members of Asteroid Families and Implications for the Physics of Catastrophic Collisions. <i>Icarus</i> , 1999, 141, 79-95.	2.5	61
117	A Lagrangian study of the Antarctic polar vortex. <i>Journal of Geophysical Research</i> , 1997, 102, 6765-6773.	3.3	26
118	Imaging polarimetry of comet Hale-Bopp (C/1995 O1) around perihelion. <i>Earth, Moon and Planets</i> , 1997, 78, 359-364.	0.6	6
119	Forming Planetesimals in Vortices. <i>Icarus</i> , 1996, 121, 158-170.	2.5	161
120	Dynamics of advected tracers with varying buoyancy. <i>Physica D: Nonlinear Phenomena</i> , 1994, 76, 202-215.	2.8	31
121	Dynamics of passively advected impurities in simple twoâ€“dimensional flow models. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 1805-1820.	1.6	60