

Stefano Facchini

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

4,049
citations

87888

38
h-index

133252

59
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84
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84
docs citations

84
times ranked

1913
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing inner and outer disk misalignments in transition disks. <i>Astronomy and Astrophysics</i> , 2022, 658, A183.	5.1	42
2	Tracing pebble drift and trapping using radial carbon depletion profiles in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2022, 660, A126.	5.1	16
3	The ODYSSEUS Survey. Motivation and First Results: Accretion, Ejection, and Disk Irradiation of CVSO 109. <i>Astronomical Journal</i> , 2022, 163, 114.	4.7	15
4	Observational constraints on gas disc sizes in the protoplanetary discs of multiple systems in the Taurus region. <i>Astronomy and Astrophysics</i> , 2022, 662, A121.	5.1	13
5	A New Planet Candidate Detected in a Dust Gap of the Disk around HD 163296 through Localized Kinematic Signatures: An Observational Validation of the discriminator. <i>Astrophysical Journal</i> , 2022, 928, 2.	4.5	30
6	An APEX search for carbon emission from NGC 1977 proplyds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2594-2603.	4.4	5
7	Gas temperature structure across transition disk cavities. <i>Astronomy and Astrophysics</i> , 2022, 663, A23.	5.1	18
8	Gas and Dust Shadows in the TW Hydrae Disk. <i>Astrophysical Journal</i> , 2022, 930, 144.	4.5	3
9	Disk Evolution Study through Imaging of Nearby Young Stars (DESTINYs): A Panchromatic View of DO Tau's Complex Kilo-astronomical-unit Environment. <i>Astrophysical Journal</i> , 2022, 930, 171.	4.5	7
10	Constraining the Nature of the PDS 70 Protoplanets with VLT/GRAVITY. <i>Astronomical Journal</i> , 2021, 161, 148.	4.7	59
11	Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): Late Infall Causing Disk Misalignment and Dynamic Structures in SU Aur*. <i>Astrophysical Journal Letters</i> , 2021, 908, L25.	8.3	42
12	Exploring HNC and HCN line emission as probes of the protoplanetary disk temperature. <i>Astronomy and Astrophysics</i> , 2021, 647, A118.	5.1	10
13	A highly non-Keplerian protoplanetary disc. <i>Astronomy and Astrophysics</i> , 2021, 648, A19.	5.1	23
14	Measuring the ratio of the gas and dust emission radii of protoplanetary disks in the Lupus star-forming region. <i>Astronomy and Astrophysics</i> , 2021, 649, A19.	5.1	35
15	The Disc Miner. <i>Astronomy and Astrophysics</i> , 2021, 650, A179.	5.1	19
16	Multiwavelength continuum sizes of protoplanetary discs: scaling relations and implications for grain growth and radial drift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 2804-2823.	4.4	35
17	PENELLOPE: The ESO data legacy program to complement the <i>Hubble</i> UV Legacy Library of Young Stars (ULLYSES). <i>Astronomy and Astrophysics</i> , 2021, 650, A196.	5.1	32
18	A Circumplanetary Disk around PDS70c. <i>Astrophysical Journal Letters</i> , 2021, 916, L2.	8.3	114

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19	The first ALMA survey of protoplanetary discs at 3mm: demographics of grain growth in the Lupus region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 5117-5128.	4.4	21
20	The Chemical Inventory of the Planet-hosting Disk PDS 70. <i>Astronomical Journal</i> , 2021, 162, 99.	4.7	32
21	Demographics of disks around young very low-mass stars and brown dwarfs in Lupus (Corrigendum). <i>Astronomy and Astrophysics</i> , 2020, 638, C4.	5.1	1
22	Shadowing and multiple rings in the protoplanetary disk of HD 139614. <i>Astronomy and Astrophysics</i> , 2020, 635, A121.	5.1	34
23	Demographics of disks around young very low-mass stars and brown dwarfs in Lupus. <i>Astronomy and Astrophysics</i> , 2020, 633, A114.	5.1	29
24	Constraining the radial drift of millimeter-sized grains in the protoplanetary disks in Lupus. <i>Astronomy and Astrophysics</i> , 2020, 638, A38.	5.1	20
25	ALMA chemical survey of disk-outflow sources in Taurus (ALMA-DOT). <i>Astronomy and Astrophysics</i> , 2020, 636, A65.	5.1	19
26	Annular substructures in the transition disks around LkCa 15 and J1610. <i>Astronomy and Astrophysics</i> , 2020, 639, A121.	5.1	36
27	Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): A close low-mass companion to ET Cha. <i>Astronomy and Astrophysics</i> , 2020, 642, A119.	5.1	10
28	An ALMA Survey of ρ Orionis Disks: From Supernovae to Planet Formation. <i>Astronomical Journal</i> , 2020, 160, 248.	4.7	23
29	Detection of Continuum Submillimeter Emission Associated with Candidate Protoplanets. <i>Astrophysical Journal Letters</i> , 2019, 879, L25.	8.3	115
30	Bright C ₂ H emission in protoplanetary discs in Lupus: high volatile C/O > 1 ratios. <i>Astronomy and Astrophysics</i> , 2019, 631, A69.	5.1	59
31	ALMA survey of Class II protoplanetary disks in Corona Australis: a young region with low disk masses. <i>Astronomy and Astrophysics</i> , 2019, 626, A11.	5.1	61
32	A dust and gas cavity in the disc around CQ Tau revealed by ALMA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 4638-4654.	4.4	33
33	Gas versus dust sizes of protoplanetary discs: effects of dust evolution. <i>Astronomy and Astrophysics</i> , 2019, 629, A79.	5.1	71
34	The ALMA Lupus protoplanetary disk survey: evidence for compact gas disks and molecular rings from CN. <i>Astronomy and Astrophysics</i> , 2019, 623, A150.	5.1	31
35	Stringent limits on the magnetic field strength in the disc of TW Hya. <i>Astronomy and Astrophysics</i> , 2019, 624, L7.	5.1	41
36	Highly structured disk around the planet host PDS 70 revealed by high-angular resolution observations with ALMA. <i>Astronomy and Astrophysics</i> , 2019, 625, A118.	5.1	90

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37	Exploring the dimming event of RW Aurigae A through multi-epoch VLT/X-shooter spectroscopy. <i>Astronomy and Astrophysics</i> , 2019, 625, A49.	5.1	21
38	High gas-to-dust size ratio indicating efficient radial drift in the mm-faint CX Tauri disk. <i>Astronomy and Astrophysics</i> , 2019, 626, L2.	5.1	43
39	A circumbinary protoplanetary disk in a polar configuration. <i>Nature Astronomy</i> , 2019, 3, 230-235.	10.1	59
40	An Ideal Testbed for Planet-Disk Interaction: Two Giant Protoplanets in Resonance Shaping the PDS 70 Protoplanetary Disk. <i>Astrophysical Journal Letters</i> , 2019, 884, L41.	8.3	57
41	Where can a Trappist-1 planetary system be produced?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 5460-5473.	4.4	41
42	The FRIED grid of mass-loss rates for externally irradiated protoplanetary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 452-466.	4.4	75
43	V1094 Scorpii: A rare giant multi-ringed disk around a T Tauri star. <i>Astronomy and Astrophysics</i> , 2018, 616, A88.	5.1	45
44	Probing the protoplanetary disk gas surface density distribution with ^{13}CO emission. <i>Astronomy and Astrophysics</i> , 2018, 619, A113.	5.1	14
45	Evidence for a massive dust-trapping vortex connected to spirals. <i>Astronomy and Astrophysics</i> , 2018, 619, A161.	5.1	69
46	Multi-epoch monitoring of the AA Tauri-like star V 354 Mon. <i>Astronomy and Astrophysics</i> , 2018, 614, A108.	5.1	17
47	Multiple Stellar Flybys Sculpting the Circumstellar Architecture in RW Aurigae. <i>Astrophysical Journal</i> , 2018, 859, 150.	4.5	57
48	High-resolution Millimeter Imaging of the CI Tau Protoplanetary Disk: A Massive Ensemble of Protoplanets from 0.1 to 100 au. <i>Astrophysical Journal Letters</i> , 2018, 866, L6.	8.3	69
49	<i>Gaia</i> DR2 view of the Lupus VI clouds: The candidate diskless young stellar objects are mainly background contaminants. <i>Astronomy and Astrophysics</i> , 2018, 615, L1.	5.1	20
50	Signatures of broken protoplanetary discs in scattered light and in sub-millimetre observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4459-4475.	4.4	80
51	Nitrogen isotope fractionation in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2018, 615, A75.	5.1	51
52	Protoplanetary disc truncation mechanisms in stellar clusters: comparing external photoevaporation and tidal encounters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 2700-2722.	4.4	121
53	Inferring giant planets from ALMA millimeter continuum and line observations in (transition) disks. <i>Astronomy and Astrophysics</i> , 2018, 612, A104.	5.1	49
54	The extremely truncated circumstellar disc of V410 X-ray 1: a precursor to TRAPPIST-1?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 325-334.	4.4	2

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55	CN rings in full protoplanetary disks around young stars as probes of disk structure. <i>Astronomy and Astrophysics</i> , 2018, 609, A93.	5.1	49
56	ALMA Survey of Lupus Protoplanetary Disks. II. Gas Disk Radii. <i>Astrophysical Journal</i> , 2018, 859, 21.	4.5	268
57	Shadows and asymmetries in the T Tauri disk HD 143006: evidence for a misaligned inner disk. <i>Astronomy and Astrophysics</i> , 2018, 619, A171.	5.1	71
58	Shadows and spirals in the protoplanetary disk HD 100453. <i>Astronomy and Astrophysics</i> , 2017, 597, A42.	5.1	147
59	The origin of the eccentricity of the hot Jupiter in CI Tau. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 464, L114-L118.	3.3	40
60	VLA Observations of the Disk around the Young Brown Dwarf 2MASS J044427+2512. <i>Astrophysical Journal</i> , 2017, 846, 19.	4.5	29
61	The Circumstellar Disk HD 169142: Gas, Dust, and Planets Acting in Concert?*. <i>Astrophysical Journal</i> , 2017, 850, 52.	4.5	82
62	An ALMA Survey of Protoplanetary Disks in the ρ Orionis Cluster. <i>Astronomical Journal</i> , 2017, 153, 240.	4.7	243
63	First evidence of external disc photoevaporation in a low mass star forming region: the case of IM Lup. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 468, L108-L112.	3.3	71
64	Different dust and gas radial extents in protoplanetary disks: consistent models of grain growth and CO emission. <i>Astronomy and Astrophysics</i> , 2017, 605, A16.	5.1	107
65	Robustness of N_2H^+ as tracer of the CO snowline. <i>Astronomy and Astrophysics</i> , 2017, 599, A101.	5.1	70
66	Gas vs dust radial extent in disks: the importance of their thermal interplay. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 129-136.	0.0	1
67	CO emission tracing a warp or radial flow within ~ 100 au in the HD 100546 protoplanetary disk. <i>Astronomy and Astrophysics</i> , 2017, 607, A114.	5.1	46
68	PROPLYDS AROUND A B1 STAR: 42 ORIONIS IN NGC 1977. <i>Astrophysical Journal Letters</i> , 2016, 826, L15.	8.3	57
69	Violent environment of the inner disk of RW Aurigae A probed by the 2010 and 2015 dimming events. <i>Astronomy and Astrophysics</i> , 2016, 596, A38.	5.1	34
70	Grand Challenges in Protoplanetary Disc Modelling. <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, .	3.4	61
71	Photochemical dynamical models of externally FUV irradiated protoplanetary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3616-3629.	4.4	28
72	External photoevaporation of protoplanetary discs in sparse stellar groups: the impact of dust growth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3593-3610.	4.4	116

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73	Lense-Thirring precession around supermassive black holes during tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1946-1956.	4.4	41
74	The theory of globulets: candidate precursors of brown dwarfs and free-floating planets in H ₂ regions. Monthly Notices of the Royal Astronomical Society, 2015, 446, 1098-1106.	4.4	33
75	A tidal encounter caught in the act: modelling a star-disc fly-by in the young RW Aurigae system. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1996-2009.	4.4	62
76	The nature of the 2014-2015 dim state of RW Aurigae revealed by X-ray, optical, and near-IR observations. Astronomy and Astrophysics, 2015, 584, L9.	5.1	18
77	Probing the presence of planets in transition discs' cavities via warps: the case of TW Hya. Monthly Notices of the Royal Astronomical Society, 2014, 442, 3700-3710.	4.4	18
78	Wave-like warp propagation in circumbinary discs I. Analytic theory and numerical simulations. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2142-2156.	4.4	113
79	Wave-like warp propagation in circumbinary discs II. Application to KH15D. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2157-2164.	4.4	44
80	Constraining proto-planetary disc evolution using accretion rate and disc mass measurements: the usefulness of the dimensionless accretion parameter. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	39
81	Observational signatures of linear warps in circumbinary discs. Monthly Notices of the Royal Astronomical Society, 0, , stw3389.	4.4	10
82	High resolution observations of molecular emission lines toward the CI Tau proto-planetary disc: planet-carved gaps or shadowing?. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	10