

# Matteo Cantiello

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

11,686  
citations

76196

40  
h-index

66788

78  
g-index

86  
all docs

86  
docs citations

86  
times ranked

6896  
citing authors

#	ARTICLE	IF	CITATIONS
1	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): PLANETS, OSCILLATIONS, ROTATION, AND MASSIVE STARS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 4.	3.0	2,251
2	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): BINARIES, PULSATIONS, AND EXPLOSIONS. <i>Astrophysical Journal, Supplement Series</i> , 2015, 220, 15.	3.0	1,990
3	MESA ISOCHRONES AND STELLAR TRACKS (MIST). I. SOLAR-SCALED MODELS. <i>Astrophysical Journal</i> , 2016, 823, 102.	1.6	1,688
4	Modules for Experiments in Stellar Astrophysics (MESA): Pulsating Variable Stars, Rotation, Convective Boundaries, and Energy Conservation. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 10.	3.0	860
5	Rotating massive main-sequence stars. <i>Astronomy and Astrophysics</i> , 2011, 530, A115.	2.1	624
6	Sub-surface convection zones in hot massive stars and their observable consequences. <i>Astronomy and Astrophysics</i> , 2009, 499, 279-290.	2.1	248
7	Late Time Afterglow Observations Reveal a Collimated Relativistic Jet in the Ejecta of the Binary Neutron Star Merger GW170817. <i>Physical Review Letters</i> , 2018, 120, 241103.	2.9	241
8	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2011, 530, A108.	2.1	217
9	ANGULAR MOMENTUM TRANSPORT WITHIN EVOLVED LOW-MASS STARS. <i>Astrophysical Journal</i> , 2014, 788, 93.	1.6	200
10	Rotational mixing in massive binaries. <i>Astronomy and Astrophysics</i> , 2009, 497, 243-253.	2.1	191
11	EVOLUTION OF MASSIVE STARS WITH PULSATION-DRIVEN SUPERWINDS DURING THE RED SUPERGIANT PHASE. <i>Astrophysical Journal Letters</i> , 2010, 717, L62-L65.	3.0	175
12	Rotating massive main-sequence stars. <i>Astronomy and Astrophysics</i> , 2011, 530, A116.	2.1	160
13	Binary star progenitors of long gamma-ray bursts. <i>Astronomy and Astrophysics</i> , 2007, 465, L29-L33.	2.1	149
14	Ejection of the Massive Hydrogen-rich Envelope Timed with the Collapse of the Stripped SN 2014C. <i>Astrophysical Journal</i> , 2017, 835, 140.	1.6	129
15	Asteroseismology can reveal strong internal magnetic fields in red giant stars. <i>Science</i> , 2015, 350, 423-426.	6.0	119
16	Pair creation supernovae at low and high redshift. <i>Astronomy and Astrophysics</i> , 2007, 475, L19-L23.	2.1	115
17	Magnetic spots on hot massive stars. <i>Astronomy and Astrophysics</i> , 2011, 534, A140.	2.1	113
18	LOCAL RADIATION HYDRODYNAMIC SIMULATIONS OF MASSIVE STAR ENVELOPES AT THE IRON OPACITY PEAK. <i>Astrophysical Journal</i> , 2015, 813, 74.	1.6	108

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19	Off-axis Prompt X-Ray Transients from the Cocoon of Short Gamma-Ray Bursts. <i>Astrophysical Journal Letters</i> , 2017, 848, L6.	3.0	107
20	A prevalence of dynamo-generated magnetic fields in the cores of intermediate-mass stars. <i>Nature</i> , 2016, 529, 364-367.	13.7	101
21	ANGULAR MOMENTUM TRANSPORT VIA INTERNAL GRAVITY WAVES IN EVOLVING STARS. <i>Astrophysical Journal</i> , 2014, 796, 17.	1.6	99
22	THE FORMATION AND GRAVITATIONAL-WAVE DETECTION OF MASSIVE STELLAR BLACK HOLE BINARIES. <i>Astrophysical Journal</i> , 2014, 789, 120.	1.6	98
23	ON VARIATIONS OF PRE-SUPERNOVA MODEL PROPERTIES. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 22.	3.0	92
24	SPIRITS: Uncovering Unusual Infrared Transients with Spitzer. <i>Astrophysical Journal</i> , 2017, 839, 88.	1.6	75
25	Thermohaline mixing in evolved low-mass stars. <i>Astronomy and Astrophysics</i> , 2010, 521, A9.	2.1	74
26	THE FATE OF FALLBACK MATTER AROUND NEWLY BORN COMPACT OBJECTS. <i>Astrophysical Journal</i> , 2014, 781, 119.	1.6	73
27	Stellar Evolution in AGN Disks. <i>Astrophysical Journal</i> , 2021, 910, 94.	1.6	66
28	Outbursts of luminous blue variable stars from variations in the helium opacity. <i>Nature</i> , 2018, 561, 498-501.	13.7	62
29	Diverse Variability of O and B Stars Revealed from 2-minute Cadence Light Curves in Sectors 1 and 2 of the TESS Mission: Selection of an Asteroseismic Sample. <i>Astrophysical Journal Letters</i> , 2019, 872, L9.	3.0	61
30	THE SPIN RATE OF PRE-COLLAPSE STELLAR CORES: WAVE-DRIVEN ANGULAR MOMENTUM TRANSPORT IN MASSIVE STARS. <i>Astrophysical Journal</i> , 2015, 810, 101.	1.6	59
31	ASTEROSEISMIC SIGNATURES OF EVOLVING INTERNAL STELLAR MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2016, 824, 14.	1.6	58
32	THE VLT-FLAMES TARANTULA SURVEY: THE FASTEST ROTATING O-TYPE STAR AND SHORTEST PERIOD LMC PULSAR REMNANTS OF A SUPERNOVA DISRUPTED BINARY?. <i>Astrophysical Journal Letters</i> , 2011, 743, L22.	3.0	57
33	The observational signatures of convectively excited gravity modes in main-sequence stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1736-1745.	1.6	57
34	Envelope Convection, Surface Magnetism, and Spots in A and Late B-type Stars. <i>Astrophysical Journal</i> , 2019, 883, 106.	1.6	57
35	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2012, 542, A49.	2.1	54
36	Planetary Engulfment in the Hertzsprung-Russell Diagram. <i>Astrophysical Journal Letters</i> , 2018, 853, L1.	3.0	50

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37	Constraining the Black Hole Initial Mass Function with LIGO/Virgo Observations. <i>Astrophysical Journal Letters</i> , 2019, 878, L1.	3.0	48
38	DISCOVERY OF THE MASSIVE OVERCONTACT BINARY VFTS 352: EVIDENCE FOR ENHANCED INTERNAL MIXING. <i>Astrophysical Journal</i> , 2015, 812, 102.	1.6	47
39	Electromagnetic Signatures of Relativistic Explosions in the Disks of Active Galactic Nuclei. <i>Astrophysical Journal Letters</i> , 2021, 906, L7.	3.0	47
40	The Cepheid mass discrepancy and pulsation-driven mass loss. <i>Astronomy and Astrophysics</i> , 2011, 529, L9.	2.1	46
41	Rotational modulation in TESS B stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3457-3469.	1.6	42
42	The Stellar Merger Scenario for Black Holes in the Pair-instability Gap. <i>Astrophysical Journal Letters</i> , 2020, 904, L13.	3.0	41
43	Weak magnetic fields in early-type stars: failed fossils. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 2789-2794.	1.6	40
44	Magnetic OB[A] Stars with TESS: probing their Evolutionary and Rotational properties (MOBSTER) – I. First-light observations of known magnetic B and A stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 304-317.	1.6	40
45	Low-frequency Variability in Massive Stars: Core Generation or Surface Phenomenon?. <i>Astrophysical Journal Letters</i> , 2019, 886, L15.	3.0	39
46	Suppression of Quadrupole and Octupole Modes in Red Giants Observed by <i>Kepler</i> . <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, .	1.3	32
47	Conversion of internal gravity waves into magnetic waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2181-2193.	1.6	31
48	Stellar Evolution in the Disks of Active Galactic Nuclei Produces Rapidly Rotating Massive Stars. <i>Astrophysical Journal</i> , 2021, 914, 105.	1.6	29
49	On the Origin of Stochastic, Low-Frequency Photometric Variability in Massive Stars. <i>Astrophysical Journal</i> , 2021, 915, 112.	1.6	28
50	Ultra-long Gamma-Ray Bursts from the Collapse of Blue Supergiant Stars: An End-to-end Simulation. <i>Astrophysical Journal</i> , 2018, 859, 48.	1.6	27
51	Rotation and Massive Close Binary Evolution. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 167-178.	0.0	26
52	Accretion onto Stars in the Disks of Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2021, 916, 48.	1.6	26
53	The Origin of the Bimodal Distribution of Magnetic Fields in Early-type Stars. <i>Astrophysical Journal</i> , 2020, 900, 113.	1.6	25
54	Lithium Enrichment Signatures of Planetary Engulfment Events in Evolved Stars. <i>Astronomical Journal</i> , 2021, 162, 273.	1.9	18

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55	Effects of an Immortal Stellar Population in AGN Disks. <i>Astrophysical Journal</i> , 2022, 929, 133.	1.6	17
56	The Effects of Magnetic Fields on the Dynamics of Radiation Pressure-dominated Massive Star Envelopes. <i>Astrophysical Journal</i> , 2017, 843, 68.	1.6	15
57	LOOKING DEEP INTO THE CAT'S EYE: STRUCTURE AND ROTATION IN THE FAST WIND OF THE PN CENTRAL STAR OF NGC 6543. <i>Astrophysical Journal Letters</i> , 2012, 759, L28.	3.0	13
58	Prospects of Gravitational Wave Detections from Common Envelope Evolution with LISA. <i>Astrophysical Journal</i> , 2021, 919, 128.	1.6	12
59	Starfall: a heavy rain of stars in a turning on AGN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 4102-4110.	1.6	12
60	Inference of Stellar Parameters from Brightness Variations. <i>Astrophysical Journal</i> , 2018, 866, 15.	1.6	10
61	Convective Penetration in Early-type Stars. <i>Astrophysical Journal</i> , 2022, 929, 182.	1.6	10
62	Limits on the spin up of stellar-mass black holes through a spiral stationary accretion shock instability. <i>New Astronomy</i> , 2016, 44, 58-65.	0.8	8
63	Surface manifestation of stochastically excited internal gravity waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 132-143.	1.6	8
64	3D MHD simulations of subsurface convection in OB stars. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 32-37.	0.0	7
65	A Transparent Window into Early-type Stellar Variability. <i>Astrophysical Journal</i> , 2022, 926, 221.	1.6	7
66	Thermohaline mixing in low-mass giants. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 103-109.	0.0	6
67	Magnetic Archaeology of Early-type Stellar Dynamos. <i>Astrophysical Journal</i> , 2021, 923, 104.	1.6	6
68	Rotational mixing in close binaries. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 365-370.	0.0	5
69	Chemically Homogeneous Evolution in Massive Binaries. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	5
70	Measures of Efficiency of Convection. <i>Research Notes of the AAS</i> , 2022, 6, 29.	0.3	5
71	The O stars in the VLT-FLAMES Tarantula Survey. <i>Journal of Physics: Conference Series</i> , 2011, 328, 012022.	0.3	4
72	Evolution of Progenitor Stars of Type Ibc Supernovae and Long Gamma-Ray Bursts. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 231-236.	0.0	2

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73	Thermohaline Mixing in Low-mass Giants: RGB and Beyond. , 2007, , .		1
74	Long GRBs from Binary Stars: Runaway, Wolf-Rayet Progenitors. , 2007, , .		1
75	Light elements in massive single and binary stars. Proceedings of the International Astronomical Union, 2009, 5, 411-420.	0.0	1
76	The VLTâ€™FLAMES Tarantula Survey. Proceedings of the International Astronomical Union, 2009, 5, 35-40.	0.0	1
77	Turbulence and magnetic spots at the surface of hot massive stars. Proceedings of the International Astronomical Union, 2010, 6, 200-203.	0.0	1
78	A measurement of stellar surface gravity hidden in radial velocity differences of comoving stars. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1071-1076.	1.6	1
79	Evolution of Massive Stars at Very Low Metallicity, Including Rotation and Binary Interactions. , 2008, , .		0
80	The VLT-FLAMES Tarantula survey. Proceedings of the International Astronomical Union, 2010, 6, 296-297.	0.0	0