

Alessia Gualandris

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,388
citations

186265

28
h-index

206112

48
g-index

51
all docs

51
docs citations

51
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Ejection of Supermassive Black Holes from Galaxy Cores. <i>Astrophysical Journal</i> , 2008, 678, 780-797.	4.5	172
2	Black hole growth through hierarchical black hole mergers in dense star clusters: implications for gravitational wave detections. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5008-5021.	4.4	143
3	Performance analysis of direct N-body algorithms on special-purpose supercomputers. <i>New Astronomy</i> , 2007, 12, 357-377.	1.8	138
4	Concurrent formation of supermassive stars and globular clusters: implications for early self-enrichment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 2461-2479.	4.4	134
5	Ejection of hypervelocity stars from the Galactic Centre by intermediate-mass black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 372, 174-182.	4.4	98
6	On the origin of high-velocity runaway stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 570-578.	4.4	90
7	DYNAMICAL EVOLUTION OF THE YOUNG STARS IN THE GALACTIC CENTER: <i>N</i> -BODY SIMULATIONS OF THE S-STARS. <i>Astrophysical Journal</i> , 2009, 702, 884-889.	4.5	85
8	Three-body encounters in the Galactic Centre: the origin of the hypervelocity star SDSS J090745.0+024507. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 223-228.	4.4	84
9	Gravitational wave sources from inspiralling globular clusters in the Galactic Centre and similar environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4423-4442.	4.4	84
10	PERTURBATIONS OF INTERMEDIATE-MASS BLACK HOLES ON STELLAR ORBITS IN THE GALACTIC CENTER. <i>Astrophysical Journal</i> , 2009, 705, 361-371.	4.5	78
11	LONG-TERM EVOLUTION OF MASSIVE BLACK HOLE BINARIES. IV. MERGERS OF GALAXIES WITH COLLISIONALLY RELAXED NUCLEI. <i>Astrophysical Journal</i> , 2012, 744, 74.	4.5	77
12	N-body simulations of stars escaping from the Orion nebula. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 350, 615-626.	4.4	72
13	A hypervelocity star from the Large Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2007, 376, L29-L33.	3.3	64
14	A stellar-mass black hole population in the globular cluster NGC 6101?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 2333-2342.	4.4	63
15	Has the Black Hole in XTE J1118+480 Experienced an Asymmetric Natal Kick?. <i>Astrophysical Journal</i> , 2005, 618, 845-851.	4.5	61
16	TIDAL BREAKUP OF BINARY STARS AT THE GALACTIC CENTER AND ITS CONSEQUENCES. <i>Astrophysical Journal</i> , 2010, 713, 90-104.	4.5	59
17	Collisionless loss-cone refilling: there is no final parsec problem. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2301-2310.	4.4	57
18	Massive black hole binary eccentricity in rotating stellar systems. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 415, L35-L39.	3.3	56

#	ARTICLE	IF	CITATIONS
19	Very massive runaway stars from three-body encounters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 304-312.	4.4	54
20	EXPLAINING THE ORBITS OF THE GALACTIC CENTER S-STARS. <i>Astrophysical Journal</i> , 2009, 693, L35-L38.	4.5	53
21	A hypervelocity star with a Magellanic origin. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2007-2013.	4.4	50
22	DYNAMICAL CONSTRAINTS ON THE ORIGIN OF THE YOUNG B-STARS IN THE GALACTIC CENTER. <i>Astrophysical Journal</i> , 2010, 719, 220-228.	4.5	45
23	The Case of PSR J1911â~5958A in the Outskirts of NGC 6752: Signature of a Black Hole Binary in the Cluster Core?. <i>Astrophysical Journal</i> , 2002, 570, L85-L88.	4.5	43
24	The Galactic Centre star S2 as a dynamical probe for intermediate-mass black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 1146-1154.	4.4	42
25	Hyperfast pulsars as the remnants of massive stars ejected from young star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 385, 929-938.	4.4	35
26	A hybrid N -body code incorporating algorithmic regularization and post-Newtonian forces. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 2-12.	4.4	35
27	Probing dark matter with star clusters: a dark matter core in the ultra-faint dwarf Eridanus II. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3124-3136.	4.4	35
28	On the onset of runaway stellar collisions in dense star clusters â€ I. Dynamics of the first collision. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 384, 376-385.	4.4	29
29	Milking the spherical cow â€ on aspherical dynamics in spherical coordinates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 1366-1379.	4.4	29
30	SUPERNOVAE IN THE CENTRAL PARSEC: A MECHANISM FOR PRODUCING SPATIALLY ANISOTROPIC HYPERVELOCITY STARS. <i>Astrophysical Journal</i> , 2013, 771, 118.	4.5	28
31	High-velocity stars in the cores of globular clusters: the illustrative case of NGCâ€™2808. <i>Astronomy and Astrophysics</i> , 2012, 543, A82.	5.1	23
32	A cosmological view of extreme mass-ratio inspirals in nuclear star clusters. <i>Astronomy and Astrophysics</i> , 2012, 542, A102.	5.1	23
33	On the Origin of a Rotating Metal-poor Stellar Population in the Milky Way Nuclear Cluster. <i>Astrophysical Journal Letters</i> , 2020, 901, L29.	8.3	23
34	Revealing the Formation of the Milky Way Nuclear Star Cluster via Chemo-dynamical Modeling. <i>Astrophysical Journal Letters</i> , 2020, 901, L28.	8.3	21
35	Massive black hole binary plane reorientation in rotating stellar systems. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 420, L38-L42.	3.3	19
36	Tidal breakup of triple stars in the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4986-4993.	4.4	19

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37	Performance analysis of direct N-body algorithms for astrophysical simulations on distributed systems. <i>Parallel Computing</i> , 2007, 33, 159-173.	2.1	18
38	Defeating stochasticity: coalescence time-scales of massive black holes in galaxy mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 739-746.	4.4	17
39	Hypervelocity stars from star clusters hosting intermediate-mass black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4543-4556.	4.4	16
40	Star formation at the Galactic Centre: coevolution of multiple young stellar discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5820-5831.	4.4	16
41	Eccentric disc instability in stellar discs formed from inspiralling gas clouds in the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1793-1799.	4.4	15
42	Formation of the largest galactic cores through binary scouring and gravitational wave recoil. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 4794-4814.	4.4	14
43	Star Formation and Dynamics in the Galactic Centre. <i>Lecture Notes in Physics</i> , 2016, , 205-272.	0.7	14
44	Perturbations induced by a molecular cloud on the young stellar disc in the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 3809-3819.	4.4	13
45	Eccentricity evolution of massive black hole binaries from formation to coalescence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 4753-4765.	4.4	13
46	Parallelization, Special Hardware and Post-Newtonian Dynamics in Direct N - Body Simulations. <i>Lecture Notes in Physics</i> , 2008, , 377-389.	0.7	12
47	A parallel gravitational N-body kernel. <i>New Astronomy</i> , 2008, 13, 285-295.	1.8	10
48	Infalling Young Clusters in the Galactic Centre: implications for IMBHs and young stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	7
49	Ejection of Hyper-Velocity Stars by Intermediate-Mass Black Holes. <i>Journal of Physics: Conference Series</i> , 2006, 54, 301-305.	0.4	2
50	Evolution of stellar orbits in the Galactic centre. <i>Astronomische Nachrichten</i> , 2008, 329, 1008-1011.	1.2	0
51	High-velocity runaway stars from three-body encounters. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 413-416.	0.0	0