

Andreas Reisenegger

List of Publications by Year in descending order

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85
papers

2,728
citations

159585

30
h-index

182427

51
g-index

86
all docs

86
docs citations

86
times ranked

1765
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic field decay in isolated neutron stars. <i>Astrophysical Journal</i> , 1992, 395, 250.	4.5	435
2	A new class of g-modes in neutron stars. <i>Astrophysical Journal</i> , 1992, 395, 240.	4.5	162
3	Deviations from chemical equilibrium due to spin-down as an internal heat source in neutron stars. <i>Astrophysical Journal</i> , 1995, 442, 749.	4.5	125
4	Stability of magnetic fields in non-barotropic stars: an analytic treatment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2445-2466.	4.4	111
5	Gravitational wave emission from a magnetically deformed non-barotropic neutron star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 2288-2299.	4.4	88
6	Stable magnetic equilibria and their evolution in the upper main sequence, white dwarfs, and neutron stars. <i>Astronomy and Astrophysics</i> , 2009, 499, 557-566.	5.1	87
7	The glitch activity of neutron stars. <i>Astronomy and Astrophysics</i> , 2017, 608, A131.	5.1	85
8	Excitation of neutron star normal modes during binary inspiral. <i>Astrophysical Journal</i> , 1994, 426, 688.	4.5	84
9	The Shapley Supercluster. III. Collapse Dynamics and Mass of the Central Concentration. <i>Astronomical Journal</i> , 2000, 120, 523-532.	4.7	66
10	Hall equilibria with toroidal and poloidal fields: application to neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 2480-2490.	4.4	64
11	Internal heating of old neutron stars: contrasting different mechanisms. <i>Astronomy and Astrophysics</i> , 2010, 522, A16.	5.1	63
12	The Shapley Supercluster. II. Spectroscopic Observations in a Wide Area and General Morphology. <i>Astronomical Journal</i> , 2000, 120, 511-522.	4.7	62
13	Structure and dynamics of the Shapley Supercluster. <i>Astronomy and Astrophysics</i> , 2006, 447, 133-144.	5.1	59
14	Rotochemical Heating in Millisecond Pulsars: Formalism and Nonsuperfluid Case. <i>Astrophysical Journal</i> , 2005, 625, 291-306.	4.5	57
15	B fields in OB stars (BOB): on the detection of weak magnetic fields in the two early B-type stars α Cen A and μ Cen A. <i>Astronomy and Astrophysics</i> , 2015, 574, A20.	5.1	49
16	The limits of bound structures in the accelerating Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 366, 803-811.	4.4	46
17	Magnetic field evolution in neutron stars: one-dimensional multi-fluid model. <i>Astronomy and Astrophysics</i> , 2008, 487, 789-803.	5.1	46
18	Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 057-057.	5.4	46

#	ARTICLE	IF	CITATIONS
19	Constraining a Possible Time Variation of the Gravitational Constant through α -Gravitochemical Heating of Neutron Stars. <i>Physical Review Letters</i> , 2006, 97, 131102.	7.8	44
20	Instability of magnetic equilibria in barotropic stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1213-1223.	4.4	43
21	Hubble Space Telescope Detection of the Millisecond Pulsar J2124 $\hat{~}$ 3358 and its Far-ultraviolet Bow Shock Nebula. <i>Astrophysical Journal</i> , 2017, 835, 264.	4.5	43
22	The Gunn-Peterson Effect from Underdense Regions in a Photoionized Intergalactic Medium. <i>Astrophysical Journal</i> , 1995, 449, 476.	4.5	43
23	Future evolution of bound superclusters in an accelerating Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 97-120.	4.4	42
24	New Constraints on the Nuclear Equation of State from the Thermal Emission of Neutron Stars in Quiescent Low-mass X-Ray Binaries. <i>Astrophysical Journal</i> , 2019, 887, 48.	4.5	36
25	Millisecond Pulsars with Modes as Steady Gravitational Radiators. <i>Physical Review Letters</i> , 2003, 91, 201103.	7.8	34
26	Hubble Space Telescope Nondetection of PSR J2144 $\hat{~}$ 3933: The Coldest Known Neutron Star $\hat{~}$. <i>Astrophysical Journal</i> , 2019, 874, 175.	4.5	32
27	Constraining Dense Matter Superfluidity through Thermal Emission from Millisecond Pulsars. <i>Astrophysical Journal</i> , 1997, 485, 313-318.	4.5	31
28	ON MAGNETIC EQUILIBRIA IN BAROTROPIC STARS. <i>Astrophysical Journal</i> , 2015, 802, 121.	4.5	31
29	A Search for Kilogauss Magnetic Fields in White Dwarfs and Hot Subdwarf Stars. <i>Astrophysical Journal</i> , 2006, 648, 559-564.	4.5	30
30	Rotochemical heating in millisecond pulsars: modified Urca reactions with uniform Cooper pairing gaps. <i>Astronomy and Astrophysics</i> , 2010, 521, A77.	5.1	30
31	Magnetic field evolution and equilibrium configurations in neutron star cores: the effect of ambipolar diffusion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 507-522.	4.4	30
32	Hall drift of axisymmetric magnetic fields in solid neutron-star matter. <i>Astronomy and Astrophysics</i> , 2007, 472, 233-240.	5.1	30
33	Old but Still Warm: Far-UV Detection of PSR B0950+08 $\hat{~}$. <i>Astrophysical Journal</i> , 2017, 850, 79.	4.5	29
34	Glitch time series and size distributions in eight prolific pulsars. <i>Astronomy and Astrophysics</i> , 2019, 630, A115.	5.1	29
35	Neutron star radius measurement from the ultraviolet and soft X-ray thermal emission of PSR J0437 $\hat{~}$ 4715. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5848-5859.	4.4	29
36	Asymptotic, non-linear solutions for ambipolar diffusion in one dimension. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1730-1741.	4.4	25

#	ARTICLE	IF	CITATIONS
37	STABILITY OF HALL EQUILIBRIA IN NEUTRON STAR CRUSTS. <i>Astrophysical Journal</i> , 2014, 796, 94.	4.5	24
38	Revisiting the Flowers-Ruderman instability of magnetic stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2426-2438.	4.4	22
39	Rotation-induced deep crustal heating of millisecond pulsars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 453, L36-L40.	3.3	22
40	The spin-up problem in Helium II. <i>Journal of Low Temperature Physics</i> , 1993, 92, 77-106.	1.4	21
41	Identification and study of systems of galaxies in the Shapley supercluster. <i>Astronomy and Astrophysics</i> , 2006, 445, 819-825.	5.1	21
42	Critical properties of a dilute gas of vortex rings in three dimensions and the transition in liquid helium. <i>Physical Review B</i> , 1990, 41, 155-161.	3.2	19
43	Rotochemical heating of millisecond and classical pulsars with anisotropic and density-dependent superfluid gap models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2073-2084.	4.4	17
44	Magnetic field evolution in neutron stars. <i>Astronomische Nachrichten</i> , 2007, 328, 1173-1177.	1.2	16
45	Redshift-space limits of bound structures. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 1577-1587.	4.4	15
46	On the weak magnetic field of millisecond pulsars: does it decay before accretion?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2013-2022.	4.4	15
47	The old globular cluster system of the dwarf galaxy NGC 1427A in the Fornax cluster. <i>Astronomy and Astrophysics</i> , 2006, 452, 141-153.	5.1	15
48	Rotochemical Heating of Neutron Stars: Rigorous Formalism with Electrostatic Potential Perturbations. <i>Astrophysical Journal</i> , 2006, 653, 568-572.	4.5	14
49	The B Fields in OB Stars (BOB) Survey. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 342-347.	0.0	14
50	Two-fluid simulations of the magnetic field evolution in neutron star cores in the weak-coupling regime. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3000-3012.	4.4	14
51	Multipole moments of stellar oscillation modes. <i>Astrophysical Journal</i> , 1994, 432, 296.	4.5	14
52	Chemical Equilibrium and Stable Stratification of a Multicomponent Fluid: Thermodynamics and Application to Neutron Stars. <i>Astrophysical Journal</i> , 2001, 550, 860-862.	4.5	12
53	Deep optical observations of the fields of two nearby millisecond pulsars with the VLT. <i>Astronomy and Astrophysics</i> , 2003, 406, 245-252.	5.1	12
54	Evolution of random initial magnetic fields in stably stratified and barotropic stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 732-745.	4.4	12

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55	The Ionized Gas Kinematics of the LMC-type Galaxy NGC 1427A in the Fornax Cluster. <i>Astrophysical Journal</i> , 2000, 530, 96-106.	4.5	11
56	B fields in OB stars (BOB). Detection of a strong magnetic field in the non-peculiar O9.7V star HD 54879. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	10
57	Non-equilibrium beta processes in neutron stars: a relationship between the net reaction rate and the total emissivity of neutrinos. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 372, 276-278.	4.4	9
58	Order-of-magnitude physics of neutron stars. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	7
59	Revisiting neutron starquakes caused by spin-down. <i>Astronomy and Astrophysics</i> , 2021, 654, A47.	5.1	7
60	Long-period thermal oscillations in superfluid millisecond pulsars. <i>Astronomy and Astrophysics</i> , 2011, 528, A66.	5.1	7
61	Neutrino emission rates in highly magnetized neutron stars revisited. <i>Astronomy and Astrophysics</i> , 2005, 439, 427-432.	5.1	6
62	Magnetic fields in neutron stars: A theoretical perspective. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	6
63	Cooling Flows and Metallicity Gradients in Clusters of Galaxies. <i>Astrophysical Journal</i> , 1996, 457, .	4.5	5
64	Internal heating and thermal emission from old neutron stars. <i>Astrophysics and Space Science</i> , 2007, 308, 413-418.	1.4	3
65	CP and related phenomena in the context of Stellar Evolution. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 161-171.	0.0	2
66	Constraining a possible time-variation of the gravitational constant through α -gravitochemical heating of neutron stars. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 314-314.	0.0	2
67	The glitch activity of neutron stars (Corrigendum). <i>Astronomy and Astrophysics</i> , 2018, 618, C1.	5.1	2
68	Structure and dynamics of the Shapley supercluster. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, .	0.0	1
69	Multi-Fluid Simulation of the Magnetic Field Evolution in Neutron Stars. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1
70	Magnetohydrodynamic equilibria in barotropic stars. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 419-422.	0.0	1
71	Search for Stable Magnetohydrodynamic Equilibria in Barotropic Stars.. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 441-444.	0.0	1
72	Constraining the equation of state of dense nuclear matter using thermal emission of neutron stars. <i>Journal of Physics: Conference Series</i> , 2020, 1667, 012001.	0.4	1

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73	A redshift database towards the Shapley supercluster region. <i>Astronomy and Astrophysics</i> , 2020, 638, A27.	5.1	1
74	Excitation of neutron star oscillation modes during binary inspiral. <i>AIP Conference Proceedings</i> , 1994, , .	0.4	0
75	Rotochemical heating in millisecond pulsars with Cooper pairing. , 2010, , .		0
76	Rotochemical heating with a density-dependent superfluid energy gap in neutron stars. , 2010, , .		0
77	Internal Heating of Old Neutron Stars: Contrasting Different Mechanisms. , 2010, , .		0
78	Rotochemical heating of old neutron stars. , 2011, , .		0
79	Ambipolar diffusion in weakly ionized plasmas. , 2011, , .		0
80	Hydromagnetic Equilibria and their Evolution in Neutron Stars. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 404-414.	0.0	0
81	Formal Proof of Flowers & Ruderman's Instability Mechanism in Magnetic Stars. <i>Journal of Physics: Conference Series</i> , 2014, 511, 012048.	0.4	0
82	The glitch activity of rotation-powered pulsars. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 217-220.	0.0	0
83	Vortex Variations. , 1989, , 207-220.		0
84	Instabilities Mediated By Line Defects In Three Dimensions Without Unbinding. , 1993, , 325-331.		0
85	Introduction to CTA Science. , 2019, , 1-25.		0