

Julian Leszek Zdunik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

1,547
citations

20
h-index

39
g-index

52
ext. papers

1,761
ext. citations

5
avg, IF

4.86
L-index

#	Paper	IF	Citations
48	Probing Elastic Quark Phases in Hybrid Stars with Radius Measurements. <i>Astrophysical Journal</i> , 2021 , 910, 145	4.7	3
47	Heating in Magnetar Crusts from Electron Captures. <i>Universe</i> , 2021 , 7, 193	2.5	1
46	Magnetic fields in late-stage proto-neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 875-895	4.3	6
45	Influence of the crust on the neutron star macrophysical quantities and universal relations. <i>Physical Review C</i> , 2021 , 104,	2.7	6
44	Experimental constraints on shallow heating in accreting neutron-star crusts. <i>Physical Review C</i> , 2020 , 102,	2.7	6
43	Tidal deformability and other global parameters of compact stars with strong phase transitions. <i>Astronomy and Astrophysics</i> , 2019 , 622, A174	5.1	32
42	Thermal states of neutron stars with a consistent model of interior. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 5010-5022	4.3	25
41	Crustal heating in accreting neutron stars from the nuclear energy-density functional theory. <i>Astronomy and Astrophysics</i> , 2018 , 620, A105	5.1	24
40	Fundamental physics and the absence of sub-millisecond pulsars. <i>Astronomy and Astrophysics</i> , 2018 , 620, A69	5.1	12
39	Consequences of a strong phase transition in the dense matter equation of state for the rotational evolution of neutron stars. <i>Astronomy and Astrophysics</i> , 2017 , 600, A39	5.1	29
38	Neutron star properties and the equation of state for the core. <i>Astronomy and Astrophysics</i> , 2017 , 599, A119	5.1	25
37	Heat blanketing envelopes vs cooling of neutron stars. <i>Journal of Physics: Conference Series</i> , 2017 , 932, 012046	0.3	
36	The impact of heat blanketing envelopes on neutron stars cooling. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012010	0.3	
35	Cooling of neutron stars with diffusive envelopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 463, 1307-1313	4.3	13
34	Neutron star radii and crusts: Uncertainties and unified equations of state. <i>Physical Review C</i> , 2016 , 94,	2.7	167
33	Maximum pulsar mass, equation of state and structure of neutron-star cores. <i>Journal of Physics: Conference Series</i> , 2016 , 665, 012061	0.3	
32	Progenitor neutron stars of the lightest and heaviest millisecond pulsars. <i>Astronomy and Astrophysics</i> , 2016 , 586, A109	5.1	8

31	Phase transitions in compact stars. Problem of micro and macro stability. <i>Physics of Particles and Nuclei</i> , 2015 , 46, 821-825	0.7	
30	Neutron drip transition in accreting and nonaccreting neutron star crusts. <i>Physical Review C</i> , 2015 , 91,	2.7	34
29	Neutron stars with hyperon cores: stellar radii and equation of state near nuclear density. <i>Astronomy and Astrophysics</i> , 2015 , 576, A68	5.1	51
28	Maximum mass of neutron stars and strange neutron-star cores. <i>Astronomy and Astrophysics</i> , 2013 , 551, A61	5.1	117
27	ON THE MAXIMUM MASS OF NEUTRON STARS. <i>International Journal of Modern Physics E</i> , 2013 , 22, 1330018	1.8	54
26	Hyperons in neutron-star cores and a 2 M \odot pulsar. <i>Astronomy and Astrophysics</i> , 2012 , 543, A157	5.1	147
25	Compression of matter in the center of accreting neutron stars. <i>Astronomy and Astrophysics</i> , 2011 , 536, A92	5.1	12
24	Formation scenarios and mass-radius relation for neutron stars. <i>Astronomy and Astrophysics</i> , 2011 , 530, A137	5.1	10
23	Implications of the measured parameters of PSR J1903+0327 for its progenitor neutron star. <i>Astronomy and Astrophysics</i> , 2011 , 536, A87	5.1	13
22	Approximate analytic expressions for circular orbits around rapidly rotating compact stars. <i>Astronomy and Astrophysics</i> , 2010 , 520, A16	5.1	10
21	Keplerian frequency of uniformly rotating neutron stars and strange stars. <i>Astronomy and Astrophysics</i> , 2009 , 502, 605-610	5.1	76
20	Strong first-order phase transition in a rotating neutron star core and the associated energy release. <i>Astronomy and Astrophysics</i> , 2008 , 479, 515-522	5.1	11
19	Models of crustal heating in accreting neutron stars. <i>Astronomy and Astrophysics</i> , 2008 , 480, 459-464	5.1	142
18	Equation of state of neutron star cores and spin down of isolated pulsars. <i>Astrophysics and Space Science</i> , 2007 , 308, 363-369	1.6	2
17	Rotation at 1122 Hz and the neutron star structure. <i>Astronomy and Astrophysics</i> , 2007 , 464, L49-L52	5.1	23
16	Equation of state of neutron star cores and spin down of isolated pulsars 2007 , 363-369		
15	Energy release associated with a first-order phase transition in a rotating neutron star core. <i>Astronomy and Astrophysics</i> , 2007 , 465, 533-539	5.1	12
14	Phase transitions in rotating neutron stars cores: back bending, stability, corequakes, and pulsar timing. <i>Astronomy and Astrophysics</i> , 2006 , 450, 747-758	5.1	38

13	Mixed-phase induced core-quakes and the changes in neutron-star parameters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 359, 699-706	4.3	18
12	Spin-up of the hyperon-softened accreting neutron stars. <i>Astronomy and Astrophysics</i> , 2005 , 441, 207-211	5.1	7
11	Impact of the nuclear equation of state on the last orbits of binary neutron stars. <i>Astronomy and Astrophysics</i> , 2005 , 431, 297-306	5.1	47
10	Hyperon softening of the EOS of dense matter and the spin evolution of isolated neutron stars. <i>Astronomy and Astrophysics</i> , 2004 , 416, 1013-1022	5.1	18
9	Nuclear composition and heating in accreting neutron-star crusts. <i>Astronomy and Astrophysics</i> , 2003 , 404, L33-L36	5.1	120
8	Equation of state of dense matter and the minimum mass of cold neutron stars. <i>Astronomy and Astrophysics</i> , 2002 , 385, 301-307	5.1	32
7	On the minimum radius of strange stars with crust. <i>Astronomy and Astrophysics</i> , 2002 , 394, 641-645	5.1	17
6	Recycling strange stars to millisecond periods. <i>Astronomy and Astrophysics</i> , 2002 , 381, 933-940	5.1	15
5	Small strange stars and marginally stable orbit in Newtonian theory. <i>Physical Review D</i> , 2001 , 63,	4.9	17
4	The crust of rotating strange quark stars. <i>Astronomy and Astrophysics</i> , 2001 , 372, 535-543	5.1	20
3	Thermal structure of neutron stars with very low accretion rates. <i>Astrophysical Journal</i> , 1992 , 384, 129	4.7	16
2	Maximum rotation frequency of strange stars. <i>Physical Review D</i> , 1990 , 42, 710-711	4.9	6
1	A submillisecond pulsar and the equation of state of dense matter. <i>Nature</i> , 1989 , 340, 617-619	5.4	101