Julian Leszek Zdunik

List of Publications by Citations

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48
papers

1,547
citations

20
h-index

39
g-index

52
ext. papers

1,761
ext. citations

5
avg, IF

L-index

#	Paper	IF	Citations
48	Neutron star radii and crusts: Uncertainties and unified equations of state. <i>Physical Review C</i> , 2016 , 94,	2.7	167
47	Hyperons in neutron-star cores and a 2 M?pulsar. Astronomy and Astrophysics, 2012, 543, A157	5.1	147
46	Models of crustal heating in accreting neutron stars. <i>Astronomy and Astrophysics</i> , 2008 , 480, 459-464	5.1	142
45	Nuclear composition and heating in accreting neutron-star crusts. <i>Astronomy and Astrophysics</i> , 2003 , 404, L33-L36	5.1	120
44	Maximum mass of neutron stars and strange neutron-star cores. <i>Astronomy and Astrophysics</i> , 2013 , 551, A61	5.1	117
43	A submillisecond pulsar and the equation of state of dense matter. <i>Nature</i> , 1989 , 340, 617-619	50.4	101
42	Keplerian frequency of uniformly rotating neutron stars and strange stars. <i>Astronomy and Astrophysics</i> , 2009 , 502, 605-610	5.1	76
41	ON THE MAXIMUM MASS OF NEUTRON STARS. International Journal of Modern Physics E, 2013 , 22, 133	60 0 .1 / 8	54
40	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
39	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
38	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
37	Neutron drip transition in accreting and nonaccreting neutron star crusts. <i>Physical Review C</i> , 2015 , 91,	2.7	34
36	Tidal deformability and other global parameters of compact stars with strong phase transitions. <i>Astronomy and Astrophysics</i> , 2019 , 622, A174	5.1	32
35	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
34	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
33	Neutron star properties and the equation of state for the core. <i>Astronomy and Astrophysics</i> , 2017 , 599, A119	5.1	25
32	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

(2016-2018)

31	Crustal heating in accreting neutron stars from the nuclear energy-density functional theory. <i>Astronomy and Astrophysics</i> , 2018 , 620, A105	5.1	24
30	Rotation at 1122[Hz and the neutron star structure. Astronomy and Astrophysics, 2007, 464, L49-L52	5.1	23
29	The crust of rotating strange quark stars. Astronomy and Astrophysics, 2001, 372, 535-543	5.1	20
28	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
27	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
26	Small strange stars and marginally stable orbit in Newtonian theory. <i>Physical Review D</i> , 2001 , 63,	4.9	17
25	On the minimum radius of strange stars with crust. Astronomy and Astrophysics, 2002, 394, 641-645	5.1	17
24	Thermal structure of neutron stars with very low accretion rates. Astrophysical Journal, 1992 , 384, 129	4.7	16
23	Recycling strange stars to millisecond periods. Astronomy and Astrophysics, 2002, 381, 933-940	5.1	15
22	Cooling of neutron stars with diffusive envelopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 463, 1307-1313	4.3	13
21	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
20	Compression of matter in the center of accreting neutron stars. <i>Astronomy and Astrophysics</i> , 2011 , 536, A92	5.1	12
19	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
18	Fundamental physics and the absence of sub-millisecond pulsars. <i>Astronomy and Astrophysics</i> , 2018 , 620, A69	5.1	12
17	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
16	Formation scenarios and mass-radius relation for neutron stars. <i>Astronomy and Astrophysics</i> , 2011 , 530, A137	5.1	10
15	Approximate analytic expressions for circular orbits around rapidly rotating compact stars. <i>Astronomy and Astrophysics</i> , 2010 , 520, A16	5.1	10
14	Progenitor neutron stars of the lightest and heaviest millisecond pulsars. <i>Astronomy and Astrophysics</i> , 2016 , 586, A109	5.1	8

13	Spin-up of the hyperon-softened accreting neutron stars. Astronomy and Astrophysics, 2005, 441, 207-2	21 5 .1	7
12	Maximum rotation frequency of strange stars. <i>Physical Review D</i> , 1990 , 42, 710-711	4.9	6
11	Experimental constraints on shallow heating in accreting neutron-star crusts. <i>Physical Review C</i> , 2020 , 102,	2.7	6
10	Magnetic fields in late-stage proto-neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 875-895	4.3	6
9	Influence of the crust on the neutron star macrophysical quantities and universal relations. <i>Physical Review C</i> , 2021 , 104,	2.7	6
8	Probing Elastic Quark Phases in Hybrid Stars with Radius Measurements. <i>Astrophysical Journal</i> , 2021 , 910, 145	4.7	3
7	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
6	Heating in Magnetar Crusts from Electron Captures. <i>Universe</i> , 2021 , 7, 193	2.5	1
5	Phase transitions in compact stars. Problem of micro and macro stability. <i>Physics of Particles and Nuclei</i> , 2015 , 46, 821-825	0.7	
4	Heat blanketing envelopes vs cooling of neutron stars. <i>Journal of Physics: Conference Series</i> , 2017 , 932, 012046	0.3	
3	The impact of heat blanketing envelopes on neutron stars cooling. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012010	0.3	
2	Maximum pulsar mass, equation of state and structure of neutron-star cores. <i>Journal of Physics:</i> Conference Series, 2016 , 665, 012061	0.3	

Equation of state of neutron star cores and spin down of isolated pulsars **2007**, 363-369