

Sergei B Popov

List of Publications by Year in descending order

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122
papers

1,949
citations

218677

26
h-index

276875

41
g-index

126
all docs

126
docs citations

126
times ranked

1606
citing authors

#	ARTICLE	IF	CITATIONS
1	A peculiar hard X-ray counterpart of a Galactic fast radio burst. <i>Nature Astronomy</i> , 2021, 5, 372-377.	10.1	137
2	Population synthesis studies of isolated neutron stars with magnetic field decay. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 2675-2686.	4.4	109
3	Fast radio bursts as giant pulses from young rapidly rotating pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 941-950.	4.4	104
4	Be X-ray binaries and candidates. <i>Astronomical and Astrophysical Transactions</i> , 2005, 24, 151-185.	0.2	79
5	Initial spin periods of neutron stars in supernova remnants. <i>Astrophysics and Space Science</i> , 2012, 341, 457-464.	1.4	77
6	Conversion of dark matter axions to photons in magnetospheres of neutron stars. <i>Journal of Experimental and Theoretical Physics</i> , 2009, 108, 384-388.	0.9	73
7	NEW LIMITS ON RADIO EMISSION FROM X-RAY DIM ISOLATED NEUTRON STARS. <i>Astrophysical Journal</i> , 2009, 702, 692-706.	4.5	60
8	The Magnificent Seven in the dusty prairie. <i>Astrophysics and Space Science</i> , 2007, 308, 171-179.	1.4	55
9	A tale of two populations: rotating radio transients and X-ray dim isolated neutron stars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 369, L23-L26.	3.3	53
10	Population synthesis as a probe of neutron star thermal evolution. <i>Astronomy and Astrophysics</i> , 2006, 448, 327-334.	5.1	53
11	The Neutron Star Census. <i>Astrophysical Journal</i> , 2000, 530, 896-903.	4.5	53
12	Young isolated neutron stars from the Gould Belt. <i>Astronomy and Astrophysics</i> , 2003, 406, 111-117.	5.1	48
13	Fast radio bursts. <i>Physics-Usppekhi</i> , 2018, 61, 965-979.	2.2	48
14	Soft gamma repeaters outside the Local Group. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 365, 885-890.	4.4	44
15	Evolution of Neutron Star Magnetic Fields. <i>Universe</i> , 2021, 7, 351.	2.5	44
16	Population synthesis in astrophysics. <i>Physics-Usppekhi</i> , 2007, 50, 1123-1146.	2.2	40
17	Neutron star's initial spin period distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 967-972.	4.4	39
18	Probing the neutron star spin evolution in the young Small Magellanic Cloud Be/X-ray binary SXP 1062. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 421, L127-L131.	3.3	36

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19	Neutron star cooling constraints for color superconductivity in hybrid stars. <i>Physical Review C</i> , 2006, 74, .	2.9	33
20	The [CLC]log[/CLC] [ITAL]N[/ITAL]â€“[CLC]log[/CLC] [ITAL]S[/ITAL] Distributions of Accreting and Cooling Isolated Neutron Stars. <i>Astrophysical Journal</i> , 2000, 544, L53-L56.	4.5	32
21	Progenitors with enhanced rotation and the origin of magnetars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 732-736.	4.4	29
22	The needle in the haystack: where to look for more isolated cooling neutron stars. <i>Astronomy and Astrophysics</i> , 2008, 482, 617-629.	5.1	29
23	Magnetic field decay in normal radio pulsars. <i>Astronomische Nachrichten</i> , 2015, 336, 831-834.	1.2	29
24	Modified pulsar current analysis: probing magnetic field evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 1066-1076.	4.4	28
25	The isolated neutron star candidate 2XMMÂJ104608.7-594306. <i>Astronomy and Astrophysics</i> , 2009, 498, 233-240.	5.1	26
26	Magnetic field estimates for accreting neutron stars in massive binary systems and models of magnetic field decay. <i>New Astronomy</i> , 2012, 17, 594-602.	1.8	26
27	Post-fall-back evolution of multipolar magnetic fields and radio pulsar activation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 3689-3702.	4.4	26
28	Young Close-By Neutron Stars: The Gould Belt Vs. The Galactic Disc. <i>Astrophysics and Space Science</i> , 2005, 299, 117-127.	1.4	23
29	Fast radio bursts counterparts in the scenario of supergiant pulses. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 462, L16-L20.	3.3	21
30	Strange Quark Stars in Binaries: Formation Rates, Mergers, and Explosive Phenomena. <i>Astrophysical Journal</i> , 2017, 846, 163.	4.5	19
31	A multiwavelength study of SXP 1062, the long-period X-ray pulsar associated with a supernova remnant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2809-2821.	4.4	19
32	Pulsar spin-velocity alignment from single and binary neutron star progenitors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 2087-2094.	4.4	17
33	How to make a mature accreting magnetar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 3204-3210.	4.4	17
34	On the nature of the bimodal initial velocity distribution of neutron stars. <i>Astronomy and Astrophysics</i> , 2004, 424, 627-633.	5.1	16
35	Constraints on the photon charge from observations of extragalactic sources. <i>Astronomy Letters</i> , 2005, 31, 147-151.	1.0	15
36	X-Ray Emission from Isolated Neutron Stars Revisited: 3D Magnetothermal Simulations. <i>Astrophysical Journal</i> , 2021, 914, 118.	4.5	15

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37	The evolution of isolated neutron stars until accretion: the role of the initial magnetic field. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1090-1097.	4.4	14
38	Jets and gamma-ray emission from isolated accreting black holes. Monthly Notices of the Royal Astronomical Society, 2012, 427, 589-594.	4.4	14
39	Central Compact Objects in Kes 79 and RCW 103 as "Hidden" Magnetars with Crustal Activity. Publications of the Astronomical Society of Australia, 2015, 32, .	3.4	14
40	New XMM-Newton observation of the thermally emitting isolated neutron star 2XMM J104608.7-594306. Astronomy and Astrophysics, 2015, 583, A117.	5.1	13
41	Rapidly rotating neutron star progenitors. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1642-1650.	4.4	13
42	Braking indices of young radio pulsars: theoretical perspective. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2826-2835.	4.4	12
43	Population Synthesis of X-Ray Sources at the Galactic Center. Astrophysical Journal, 1996, 466, 234.	4.5	12
44	Astroparticle Physics with Compact Objects. Universe, 2021, 7, 401.	2.5	12
45	The Merger of Two Compact Stars: A Tool for Dense Matter Nuclear Physics. Universe, 2018, 4, 50.	2.5	11
46	The peculiar isolated neutron star in the Carina Nebula. Astronomy and Astrophysics, 2012, 544, A17.	5.1	11
47	Formation of massive skyrmion stars. Astronomy and Astrophysics, 2005, 434, 649-655.	5.1	11
48	Initial periods and magnetic fields of neutron stars. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4606-4619.	4.4	11
49	HERSCHEL AND SPITZER OBSERVATIONS OF SLOWLY ROTATING, NEARBY ISOLATED NEUTRON STARS. Astrophysical Journal, Supplement Series, 2014, 215, 3.	7.7	10
50	Unifying neutron stars getting to GUNS. Astronomische Nachrichten, 2014, 335, 262-267.	1.2	10
51	A young contracting white dwarf in the peculiar binary HD 49798/RX J0648.0-4418 ?. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	10
52	The period distribution of old accreting isolated neutron stars. Astronomy and Astrophysics, 2002, 381, 1000-1006.	5.1	10
53	On the dynamical formation of accreting intermediate mass black holes. Monthly Notices of the Royal Astronomical Society, 2007, 377, 835-842.	4.4	9
54	Neutron star masses: dwarfs, giants and neighbors. Astrophysics and Space Science, 2007, 308, 381-385.	1.4	9

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55	Tkachenko waves, glitches and precession in neutron stars. <i>Astrophysics and Space Science</i> , 2008, 317, 175-179.	1.4	9
56	Magnetars, gamma-ray bursts, and very close binaries. <i>Astronomy Reports</i> , 2009, 53, 325-333.	0.9	9
57	Gaussian mixture models and the population synthesis of radio pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 2229-2237.	4.4	9
58	Photon-axion mixing in thermal emission of isolated neutron stars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 821, 136615.	4.1	9
59	Settling accretion on to isolated neutron stars from interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2817-2820.	4.4	8
60	Unified approach to redshift in cosmological/black hole spacetimes and synchronous frame. <i>European Journal of Physics</i> , 2018, 39, 015601.	0.6	8
61	The Zoo of neutron stars. <i>Physics of Particles and Nuclei</i> , 2008, 39, 1136-1142.	0.7	7
62	Probing the surface magnetic field structure in RX J1856.5-3754. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 4390-4398.	4.4	7
63	Looking for Hall attractor in astrophysical sources. <i>Journal of Physics: Conference Series</i> , 2017, 932, 012048.	0.4	6
64	Origin of Sources of Repeating Fast Radio Bursts with Periodicity in Close Binary Systems. <i>Research Notes of the AAS</i> , 2020, 4, 98.	0.7	6
65	Is there a compact companion orbiting the late O-type binary star HD 164816?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1014-1023.	4.4	5
66	Fast radio bursts: Superpulsars, magnetars, or something else?. <i>International Journal of Modern Physics D</i> , 2018, 27, 1844016.	2.1	5
67	Discovery of X-Rays from the Old and Faint Pulsar J1154-6250. <i>Astrophysical Journal</i> , 2018, 865, 116.	4.5	5
68	Detectability of neutron star White dwarf coalescences by eROSITA and ART-XC. <i>Journal of High Energy Astrophysics</i> , 2019, 24, 1-5.	6.7	5
69	Fast Radio Bursts by High-frequency Synchrotron Maser Emission Generated at the Reverse Shock of a Powerful Magnetar Flare. <i>Astrophysical Journal</i> , 2022, 927, 2.	4.5	5
70	On the nature of the compact X-ray source inside RCW 103. <i>Astronomical and Astrophysical Transactions</i> , 1998, 17, 35-40.	0.2	4
71	Nearby young single black holes. <i>Astronomy Letters</i> , 2002, 28, 536-542.	1.0	4
72	Origin of Magnetar-Scale Crustal Field in PSR J1852+0040 and "Frozen" Magnetars. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, .	3.4	4

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73	Prospects for Recording X-ray Flares Accompanying Fast Radio Bursts with the SRG/eROSITA Telescope. <i>Astronomy Letters</i> , 2019, 45, 120-126.	1.0	4
74	The rate of planet–star coalescences due to tides and stellar evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2390-2404.	4.4	4
75	On the spin evolution of neutron stars in pre-low-mass X-ray binaries. <i>Astronomy and Astrophysics</i> , 2004, 418, 699-702.	5.1	4
76	A Search for Pulsed and Bursty Radio Emission from X-ray Dim Isolated Neutron Stars. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	3
77	Observability of Single Neutron Stars at SRG/eROSITA. <i>Astronomy Reports</i> , 2021, 65, 615-630.	0.9	3
78	Constraining parameters of magnetic field decay for accreting isolated neutron stars. <i>Surveys in High Energy Physics</i> , 2001, 15, 381-397.	0.6	3
79	Observability of HOFNARs at SRG/eROSITA. <i>Universe</i> , 2022, 8, 354.	2.5	3
80	Spatial Distribution of Accreting Isolated Neutron Stars in the Galaxy. <i>Astrophysics and Space Science</i> , 1997, 252, 351-352.	1.4	2
81	Restrictions on parameters of power-law magnetic field decay for accreting isolated neutron stars. <i>Astronomical and Astrophysical Transactions</i> , 2001, 20, 635-642.	0.2	2
82	The needle in the haystack: where to look for more isolated cooling neutron stars(Corrigendum). <i>Astronomy and Astrophysics</i> , 2010, 512, C2.	5.1	2
83	The Hubble flow: an observer's perspective. <i>Physics-Uspekhi</i> , 2014, 57, 708-713.	2.2	2
84	Magneto–rotational and thermal evolution of young neutron stars. <i>Astronomische Nachrichten</i> , 2015, 336, 861-865.	1.2	2
85	Exoplanet Population Synthesis with Account for Orbit Variation Due to Stellar Evolution. <i>Astronomy Reports</i> , 2021, 65, 246-268.	0.9	2
86	Evolution of isolated neutron stars in globular clusters: Number of accretors. <i>Astronomical and Astrophysical Transactions</i> , 2002, 21, 217-221.	0.2	2
87	Is PSR J0250+5854 at the Hall Attractor Stage?. <i>Research Notes of the AAS</i> , 2018, 2, 171.	0.7	2
88	Software to Determine the Sizes and Orbital Inclinations of Planets from the Transit Observation Data. <i>Astronomy Reports</i> , 2021, 65, 1278-1291.	0.9	2
89	Determination of $\tilde{\kappa}$ -diffusion coefficients TM and stellar wind velocities for X-rays binaries. <i>Astronomical and Astrophysical Transactions</i> , 1995, 8, 221-226.	0.2	1
90	RX J0720.4-3125 as a possible example of magnetic field decay in neutron stars. <i>Radiophysics and Quantum Electronics</i> , 1998, 41, 16-21.	0.5	1

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91	Population synthesis of old neutron stars in the galaxy. <i>Astronomical and Astrophysical Transactions</i> , 2000, 19, 471-478.	0.2	1
92	Physics in the Soros Educational Journal. <i>Physics-Uspekhi</i> , 2000, 43, 211-214.	2.2	1
93	Trans-sonic propeller substage. <i>Astronomical and Astrophysical Transactions</i> , 2005, 24, 17-23.	0.2	1
94	Space cowboys odyssey: beyond the Gould Belt. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1
95	Isolated neutron stars and studies of their interiors. <i>Physics of Particles and Nuclei Letters</i> , 2012, 9, 733-744.	0.4	1
96	Magnetic field decay in young radio pulsars. <i>Astronomische Nachrichten</i> , 2021, 342, 216-221.	1.2	1
97	Spatial distribution of the luminosity of accreting isolated neutron stars in the Galaxy. <i>Astronomical and Astrophysical Transactions</i> , 1999, 18, 205-213.	0.2	1
98	YOUNG COMPACT OBJECTS IN THE SOLAR VICINITY. , 2004, , .		1
99	Origin of young accreting neutron stars in high-mass X-ray binaries in supernova remnants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 4447-4453.	4.4	1
100	Rosat X-ray sources and exponential field decay in isolated neutron stars. <i>Astronomical and Astrophysical Transactions</i> , 2000, 19, 479-484.	0.2	0
101	Method of estimating distances to X-Ray pulsars and their magnetic fields. <i>Astronomical and Astrophysical Transactions</i> , 2000, 19, 191-195.	0.2	0
102	Nature of the X-ray Source in Supernova Remnant RCW103. <i>Astrophysics and Space Science</i> , 2000, 274, 285-290.	1.4	0
103	Old isolated neutron stars in the galaxy: Evolution and field decay. <i>Surveys in High Energy Physics</i> , 2000, 15, 215-225.	0.6	0
104	Log N - Log S distribution as a new test for cooling curves of neutron stars. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
105	On the dynamic formation of accreting intermediate-mass black holes. <i>Astronomical and Astrophysical Transactions</i> , 2007, 26, 87-89.	0.2	0
106	Soft gamma repeaters activity in time. <i>Astronomische Nachrichten</i> , 2008, 329, 15-19.	1.2	0
107	Population synthesis of DA white dwarfs: constraints on soft X-ray spectra evolution. , 2010, , .		0
108	Isolated Neutron Stars. <i>EPJ Web of Conferences</i> , 2010, 7, 03002.	0.3	0

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109	A web-tool for population synthesis of nearby cooling neutron stars: An online test for cooling curves. <i>Astronomische Nachrichten</i> , 2011, 332, 122-127.	1.2	0
110	Extensive population synthesis of isolated neutron stars with field decay. , 2011, , .		0
111	Isolated neutron stars in the galaxy: from magnetars to antimagnetars. <i>Physics of Atomic Nuclei</i> , 2012, 75, 908-909.	0.4	0
112	Planet migration in wind-fed accretion discs in binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 3069-3078.	4.4	0
113	Search for Magnetars in the Galaxy M31 as Periodic X-ray Sources Based on XMM-Newton Data. <i>Astronomy Letters</i> , 2021, 47, 12-18.	1.0	0
114	Evolution of Isolated Neutron Stars. , 2001, , 101-110.		0
115	Magnetic fields of neutron stars in X-ray pulsars. <i>Astronomical and Astrophysical Transactions</i> , 2001, 19, 859-867.	0.2	0
116	Dim ROSAT isolated neutron star candidates. <i>Astronomical and Astrophysical Transactions</i> , 2001, 20, 685-699.	0.2	0
117	ISOLATED NEUTRON STARS: AN ASTROPHYSICAL PERSPECTIVE. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2006, , 53-72.	0.1	0
118	Neutron star masses: dwarfs, giants and neighbors. , 2007, , 381-385.		0
119	The Magnificent Seven in the dusty prairie. , 2007, , 171-179.		0
120	MULTICHANNEL GW BURST DETECTION WITH BAKSAN NEUTRINO OBSERVATORY SETUPS. , 2015, , .		0
121	FAST RADIO BURSTS: A NEW MAJOR PUZZLE IN ASTROPHYSICS. , 2019, , .		0
122	Close by Compact Objects and Recent Supernovae in the Solar Vicinity. , 2005, , 119-130.		0