

Sergei B Popov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4451093/publications.pdf>

Version: 2024-02-01

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	Origin of young accreting neutron stars in high-mass X-ray binaries in supernova remnants. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4447-4453.	4.4	1
2	Fast Radio Bursts by High-frequency Synchrotron Maser Emission Generated at the Reverse Shock of a Powerful Magnetar Flare. Astrophysical Journal, 2022, 927, 2.	4.5	5
3	Initial periods and magnetic fields of neutron stars. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4606-4619.	4.4	11
4	Observability of HOFNARs at SRG/eROSITA. Universe, 2022, 8, 354.	2.5	3
5	Magnetic field decay in young radio pulsars. Astronomische Nachrichten, 2021, 342, 216-221.	1.2	1
6	A peculiar hard X-ray counterpart of a Galactic fast radio burst. Nature Astronomy, 2021, 5, 372-377.	10.1	137
7	Exoplanet Population Synthesis with Account for Orbit Variation Due to Stellar Evolution. Astronomy Reports, 2021, 65, 246-268.	0.9	2
8	X-Ray Emission from Isolated Neutron Stars Revisited: 3D Magnetothermal Simulations. Astrophysical Journal, 2021, 914, 118.	4.5	15
9	Observability of Single Neutron Stars at SRG/eROSITA. Astronomy Reports, 2021, 65, 615-630.	0.9	3
10	Evolution of Neutron Star Magnetic Fields. Universe, 2021, 7, 351.	2.5	44
11	Photon-axion mixing in thermal emission of isolated neutron stars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 821, 136615.	4.1	9
12	Search for Magnetars in the Galaxy M31 as Periodic X-ray Sources Based on XMM-Newton Data. Astronomy Letters, 2021, 47, 12-18.	1.0	0
13	Astroparticle Physics with Compact Objects. Universe, 2021, 7, 401.	2.5	12
14	Software to Determine the Sizes and Orbital Inclinations of Planets from the Transit Observation Data. Astronomy Reports, 2021, 65, 1278-1291.	0.9	2
15	Braking indices of young radio pulsars: theoretical perspective. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2826-2835.	4.4	12
16	Origin of Sources of Repeating Fast Radio Bursts with Periodicity in Close Binary Systems. Research Notes of the AAS, 2020, 4, 98.	0.7	6
17	Prospects for Recording X-ray Flares Accompanying Fast Radio Bursts with the SRG/eROSITA Telescope. Astronomy Letters, 2019, 45, 120-126.	1.0	4
18	Planet migration in wind-fed accretion discs in binaries. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3069-3078.	4.4	0

#	ARTICLE	IF	CITATIONS
19	Detectability of neutron star " White dwarf coalescences by eROSITA and ART-XC. Journal of High Energy Astrophysics, 2019, 24, 1-5.	6.7	5
20	The rate of planet"star coalescences due to tides and stellar evolution. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2390-2404.	4.4	4
21	FAST RADIO BURSTS: A NEW MAJOR PUZZLE IN ASTROPHYSICS. , 2019, , .		0
22	A multiwavelength study of SXP 1062, the long-period X-ray pulsar associated with a supernova remnant. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2809-2821.	4.4	19
23	How to make a mature accreting magnetar. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3204-3210.	4.4	17
24	Fast radio bursts: Superpulsars, magnetars, or something else?. International Journal of Modern Physics D, 2018, 27, 1844016.	2.1	5
25	Unified approach to redshift in cosmological/black hole spacetimes and synchronous frame. European Journal of Physics, 2018, 39, 015601.	0.6	8
26	Fast radio bursts. Physics-Uspexhi, 2018, 61, 965-979.	2.2	48
27	Discovery of X-Rays from the Old and Faint Pulsar J1154"6250. Astrophysical Journal, 2018, 865, 116.	4.5	5
28	The Merger of Two Compact Stars: A Tool for Dense Matter Nuclear Physics. Universe, 2018, 4, 50.	2.5	11
29	Is PSR J0250+5854 at the Hall Attractor Stage?. Research Notes of the AAS, 2018, 2, 171.	0.7	2
30	Probing the surface magnetic field structure in RX J1856.5"3754. Monthly Notices of the Royal Astronomical Society, 2017, 464, 4390-4398.	4.4	7
31	Strange Quark Stars in Binaries: Formation Rates, Mergers, and Explosive Phenomena. Astrophysical Journal, 2017, 846, 163.	4.5	19
32	Looking for Hall attractor in astrophysical sources. Journal of Physics: Conference Series, 2017, 932, 012048.	0.4	6
33	Fast radio bursts counterparts in the scenario of supergiant pulses. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 462, L16-L20.	3.3	21
34	Rapidly rotating neutron star progenitors. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1642-1650.	4.4	13
35	Fast radio bursts as giant pulses from young rapidly rotating pulsars. Monthly Notices of the Royal Astronomical Society, 2016, 462, 941-950.	4.4	104
36	Post-fall-back evolution of multipolar magnetic fields and radio pulsar activation. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3689-3702.	4.4	26

#	ARTICLE	IF	CITATIONS
37	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
38	Magneto-rotational and thermal evolution of young neutron stars. Astronomische Nachrichten, 2015, 336, 861-865.	1.2	2
39	Magnetic field decay in normal radio pulsars. Astronomische Nachrichten, 2015, 336, 831-834.	1.2	29
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	Settling accretion on to isolated neutron stars from interstellar medium. Monthly Notices of the Royal Astronomical Society, 2015, 447, 2817-2820.	4.4	8
42	MULTICHANNEL GW BURST DETECTION WITH BAKSAN NEUTRINO OBSERVATORY SETUPS. , 2015, , .		0
43	HERSCHEL AND SPITZER OBSERVATIONS OF SLOWLY ROTATING, NEARBY ISOLATED NEUTRON STARS. Astrophysical Journal, Supplement Series, 2014, 215, 3.	7.7	10
44	Modified pulsar current analysis: probing magnetic field evolution. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1066-1076.	4.4	28
45	Unifying neutron stars getting to GUNS. Astronomische Nachrichten, 2014, 335, 262-267.	1.2	10
46	The Hubble flow: an observer's perspective. Physics-Uspexhi, 2014, 57, 708-713.	2.2	2
47	Gaussian mixture models and the population synthesis of radio pulsars. Monthly Notices of the Royal Astronomical Society, 2013, 434, 2229-2237.	4.4	9
48	Neutron star's initial spin period distribution. Monthly Notices of the Royal Astronomical Society, 2013, 432, 967-972.	4.4	39
49	Origin of Magnetar-Scale Crustal Field in PSR J1852+0040 and "Frozen" Magnetars. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	4
50	Isolated neutron stars and studies of their interiors. Physics of Particles and Nuclei Letters, 2012, 9, 733-744.	0.4	1
51	Initial spin periods of neutron stars in supernova remnants. Astrophysics and Space Science, 2012, 341, 457-464.	1.4	77
52	Is there a compact companion orbiting the late O-type binary star HD 164816?. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1014-1023.	4.4	5
53	Jets and gamma-ray emission from isolated accreting black holes. Monthly Notices of the Royal Astronomical Society, 2012, 427, 589-594.	4.4	14
54	Probing the neutron star spin evolution in the young Small Magellanic Cloud Be/X-ray binary SXP 1062. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 421, L127-L131.	3.3	36

#	ARTICLE	IF	CITATIONS
55	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
56	Isolated neutron stars in the galaxy: from magnetars to antimagnetars. <i>Physics of Atomic Nuclei</i> , 2012, 75, 908-909.	0.4	0
57	The peculiar isolated neutron star in the Carina Nebula. <i>Astronomy and Astrophysics</i> , 2012, 544, A17.	5.1	11
58	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
59	Extensive population synthesis of isolated neutron stars with field decay. , 2011, , .		0
60	Population synthesis of DA white dwarfs: constraints on soft X-ray spectra evolution. , 2010, , .		0
61	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
62	The evolution of isolated neutron stars until accretion: the role of the initial magnetic field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1090-1097.	4.4	14
63	Isolated Neutron Stars. <i>EPJ Web of Conferences</i> , 2010, 7, 03002.	0.3	0
64	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
65	The isolated neutron star candidate 2XMM J104608.7-594306. <i>Astronomy and Astrophysics</i> , 2009, 498, 233-240.	5.1	26
66	NEW LIMITS ON RADIO EMISSION FROM X-RAY DIM ISOLATED NEUTRON STARS. <i>Astrophysical Journal</i> , 2009, 702, 692-706.	4.5	60
67	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
68	Magnetars, gamma-ray bursts, and very close binaries. <i>Astronomy Reports</i> , 2009, 53, 325-333.	0.9	9
69	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
70	Tkachenko waves, glitches and precession in neutron stars. <i>Astrophysics and Space Science</i> , 2008, 317, 175-179.	1.4	9
71	Soft gamma repeaters activity in time. <i>Astronomische Nachrichten</i> , 2008, 329, 15-19.	1.2	0
72	The Zoo of neutron stars. <i>Physics of Particles and Nuclei</i> , 2008, 39, 1136-1142.	0.7	7

#	ARTICLE	IF	CITATIONS
73	Space cowboys odyssey: beyond the Gould Belt. AIP Conference Proceedings, 2008, , .	0.4	1
74	The needle in the haystack: where to look for more isolated cooling neutron stars. Astronomy and Astrophysics, 2008, 482, 617-629.	5.1	29
75	A Search for Pulsed and Bursty Radio Emission from X-ray Dim Isolated Neutron Stars. AIP Conference Proceedings, 2008, , .	0.4	3
76	Population synthesis in astrophysics. Physics-Uspekhi, 2007, 50, 1123-1146.	2.2	40
77	On the dynamic formation of accreting intermediate-mass black holes. Astronomical and Astrophysical Transactions, 2007, 26, 87-89.	0.2	0
78	On the dynamical formation of accreting intermediate mass black holes. Monthly Notices of the Royal Astronomical Society, 2007, 377, 835-842.	4.4	9
79	Neutron star masses: dwarfs, giants and neighbors. Astrophysics and Space Science, 2007, 308, 381-385.	1.4	9
80	The Magnificent Seven in the dusty prairie. Astrophysics and Space Science, 2007, 308, 171-179.	1.4	55
81	Neutron star masses: dwarfs, giants and neighbors. , 2007, , 381-385.		0
82	The Magnificent Seven in the dusty prairie. , 2007, , 171-179.		0
83	A tale of two populations: rotating radio transients and X-ray dim isolated neutron stars. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 369, L23-L26.	3.3	53
84	Soft gamma repeaters outside the Local Group. Monthly Notices of the Royal Astronomical Society, 2006, 365, 885-890.	4.4	44
85	Progenitors with enhanced rotation and the origin of magnetars. Monthly Notices of the Royal Astronomical Society, 2006, 367, 732-736.	4.4	29
86	Neutron star cooling constraints for color superconductivity in hybrid stars. Physical Review C, 2006, 74, .	2.9	33
87	Population synthesis as a probe of neutron star thermal evolution. Astronomy and Astrophysics, 2006, 448, 327-334.	5.1	53
88	ISOLATED NEUTRON STARS: AN ASTROPHYSICAL PERSPECTIVE. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2006, , 53-72.	0.1	0
89	Constraints on the photon charge from observations of extragalactic sources. Astronomy Letters, 2005, 31, 147-151.	1.0	15
90	Young Close-By Neutron Stars: The Gould Belt Vs. The Galactic Disc. Astrophysics and Space Science, 2005, 299, 117-127.	1.4	23

#	ARTICLE	IF	CITATIONS
91	Log N - Log S distribution as a new test for cooling curves of neutron stars. AIP Conference Proceedings, 2005, , .	0.4	0
92	Beâ€“X-ray binaries and candidates. Astronomical and Astrophysical Transactions, 2005, 24, 151-185.	0.2	79
93	Trans-sonic propeller substage. Astronomical and Astrophysical Transactions, 2005, 24, 17-23.	0.2	1
94	Formation of massive skyrmion stars. Astronomy and Astrophysics, 2005, 434, 649-655.	5.1	11
95	Close by Compact Objects and Recent Supernovae in the Solar Vicinity. , 2005, , 119-130.		0
96	On the spin evolution of neutron stars in pre-low-mass X-ray binaries. Astronomy and Astrophysics, 2004, 418, 699-702.	5.1	4
97	On the nature of the bimodal initial velocity distribution of neutron stars. Astronomy and Astrophysics, 2004, 424, 627-633.	5.1	16
98	YOUNG COMPACT OBJECTS IN THE SOLAR VICINITY. , 2004, , .		1
99	Young isolated neutron stars from the Gould Belt. Astronomy and Astrophysics, 2003, 406, 111-117.	5.1	48
100	Nearby young single black holes. Astronomy Letters, 2002, 28, 536-542.	1.0	4
101	The period distribution of old accreting isolated neutron stars. Astronomy and Astrophysics, 2002, 381, 1000-1006.	5.1	10
102	Evolution of isolated neutron stars in globular clusters: Number of accretors. Astronomical and Astrophysical Transactions, 2002, 21, 217-221.	0.2	2
103	Restrictions on parameters of power-law magnetic field decay for accreting isolated neutron stars. Astronomical and Astrophysical Transactions, 2001, 20, 635-642.	0.2	2
104	Constraining parameters of magnetic field decay for accreting isolated neutron stars. Surveys in High Energy Physics, 2001, 15, 381-397.	0.6	3
105	Evolution of Isolated Neutron Stars. , 2001, , 101-110.		0
106	Magnetic fields of neutron stars in X-ray pulsars. Astronomical and Astrophysical Transactions, 2001, 19, 859-867.	0.2	0
107	Dim ROSAT isolated neutron star candidates. Astronomical and Astrophysical Transactions, 2001, 20, 685-699.	0.2	0
108	The [CLC]log[/CLC] [ITAL]N[/ITAL]â€“[CLC]log[/CLC] [ITAL]S[/ITAL] Distributions of Accreting and Cooling Isolated Neutron Stars. Astrophysical Journal, 2000, 544, L53-L56.	4.5	32

#	ARTICLE	IF	CITATIONS
109	Population synthesis of old neutron stars in the galaxy. <i>Astronomical and Astrophysical Transactions</i> , 2000, 19, 471-478.	0.2	1
110	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
111	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
112	Nature of the X-ray Source in Supernova Remnant RCW103. <i>Astrophysics and Space Science</i> , 2000, 274, 285-290.	1.4	0
113	Physics in the Soros Educational Journal. <i>Physics-Uspekhi</i> , 2000, 43, 211-214.	2.2	1
114	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
115	The Neutron Star Census. <i>Astrophysical Journal</i> , 2000, 530, 896-903.	4.5	53
116	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
117	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
118	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
119	Spatial Distribution of Accreting Isolated Neutron Stars in the Galaxy. <i>Astrophysics and Space Science</i> , 1997, 252, 351-352.	1.4	2
120	Population Synthesis of X-Ray Sources at the Galactic Center. <i>Astrophysical Journal</i> , 1996, 466, 234.	4.5	12
121	Determination of $\tilde{\kappa}$ diffusion coefficients and stellar wind velocities for X-rays binaries. <i>Astronomical and Astrophysical Transactions</i> , 1995, 8, 221-226.	0.2	1
122	A young contracting white dwarf in the peculiar binary HD 49798/RX J0648.0-4418 ?. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	10