

Fedor L Bezrukov

List of Publications by Citations

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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.

55
papers

5,038
citations

27
h-index

57
g-index

57
ext. papers

5,764
ext. citations

6.5
avg, IF

6.07
L-index

#	Paper	IF	Citations
55	The Standard Model Higgs boson as the inflaton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 659, 703-706	4.2	1270
54	A facility to search for hidden particles at the CERN SPS: the SHiP physics case. <i>Reports on Progress in Physics</i> , 2016 , 79, 124201	14.4	373
53	Higgs boson mass and new physics. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	360
52	Higgs inflation: consistency and generalisations. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	327
51	Standard model Higgs boson mass from inflation: two loop analysis. <i>Journal of High Energy Physics</i> , 2009 , 2009, 089-089	5.4	263
50	Standard Model Higgs boson mass from inflation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 675, 88-92	4.2	256
49	On initial conditions for the hot big bang. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009 , 2009, 029-029	6.4	244
48	Genomic analysis identifies new drivers and progression pathways in skin basal cell carcinoma. <i>Nature Genetics</i> , 2016 , 48, 398-406	36.3	242
47	A White Paper on keV sterile neutrino Dark Matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 025-025	6.4	167
46	Higgs inflation at the critical point. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 734, 249-254	4.2	140
45	keV sterile neutrino dark matter in gauge extensions of the standard model. <i>Physical Review D</i> , 2010 , 81,	4.9	133
44	Multi-omic measurements of heterogeneity in HeLa cells across laboratories. <i>Nature Biotechnology</i> , 2019 , 37, 314-322	44.5	129
43	Light inflaton hunter's guide. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	124
42	The Higgs field as an inflaton. <i>Classical and Quantum Gravity</i> , 2013 , 30, 214001	3.3	105
41	Living beyond the edge: Higgs inflation and vacuum metastability. <i>Physical Review D</i> , 2015 , 92,	4.9	102
40	Higgs-dilaton cosmology: An effective field theory approach. <i>Physical Review D</i> , 2013 , 87,	4.9	76
39	Distinguishing between R ² -inflation and Higgs-inflation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 713, 365-368	4.2	72

38	Light inflaton after LHC8 and WMAP9 results. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	63
37	On the robustness of the primordial power spectrum in renormalized Higgs inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 040-040	6.4	49
36	Co-translational assembly of proteasome subunits in NOT1-containing assemblies. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 110-120	17.6	44
35	Relic gravity waves and 7 keV dark matter from a GeV scale inflaton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 736, 494-498	4.2	41
34	Searching for dark matter sterile neutrinos in the laboratory. <i>Physical Review D</i> , 2007 , 75,	4.9	41
33	Semiclassical study of baryon and lepton number violation in high-energy electroweak collisions. <i>Physical Review D</i> , 2003 , 68,	4.9	41
32	Late and early time phenomenology of Higgs-dependent cutoff. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011 , 2011, 001-001	6.4	39
31	Neutrino minimal standard model predictions for neutrinoless double beta decay. <i>Physical Review D</i> , 2005 , 72,	4.9	38
30	Interplay between scintillation and ionization in liquid xenon Dark Matter searches. <i>Astroparticle Physics</i> , 2011 , 35, 119-127	2.4	37
29	Suppression of baryon number violation in electroweak collisions: numerical results. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 574, 75-81	4.2	35
28	Inflaton mass in the Λ MSM inflation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 671, 211-215	4.2	26
27	Composite inflation setup and glueball inflation. <i>Physical Review D</i> , 2012 , 86,	4.9	25
26	Dynamical tunneling of bound systems through a potential barrier: Complex way to the top. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 98, 820-836	1	25
25	Hiding an elephant: heavy sterile neutrino with large mixing angle does not contradict cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 051-051	6.4	20
24	Some like it hot: R2 heals Higgs inflation, but does not cool it. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 795, 657-665	4.2	18
23	Model dependence of the bremsstrahlung effects from the superluminal neutrino at OPERA. <i>Physical Review D</i> , 2012 , 85,	4.9	15
22	Inflation, LHC and the Higgs boson. <i>Comptes Rendus Physique</i> , 2015 , 16, 994-1002	1.4	13
21	O(4) SYMMETRIC SINGULAR SOLUTIONS AND MULTIPARTICLE CROSS-SECTIONS IN $\mathcal{N}=4$ THEORY AT TREE LEVEL. <i>Modern Physics Letters A</i> , 1995 , 10, 2135-2141	1.3	13

20	Leptogenesis in models with keV sterile neutrino dark matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013 , 40, 095202	2.9	9
19	Applicability of approximations used in calculations of the spectrum of dark matter particles produced in particle decays. <i>Physical Review D</i> , 2016 , 93,	4.9	8
18	Semiclassical calculation of multiparticle scattering cross sections in classicalizing theories. <i>Physical Review D</i> , 2012 , 86,	4.9	7
17	A heatwave affair: mixed Higgs-R2 preheating on the lattice. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 028-028	6.4	7
16	Direct comparison of sterile neutrino constraints from cosmological data, ($\nu_{\{e\}}$) disappearance data and ($\nu_{\{\mu\}} \rightarrow \nu_{\{e\}}$) appearance data in a (3+1) model. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7
15	Can an odd number of fermions be created due to the chiral anomaly?. <i>Physical Review D</i> , 2006 , 73,	4.9	6
14	YjbH Solubility Controls Spx in : Implication for MazEF Toxin-Antitoxin System Regulation. <i>Frontiers in Microbiology</i> , 2020 , 11, 113	5.7	5
13	MazF toxin causes alterations in Staphylococcus aureus transcriptome, translatoe and proteome that underlie bacterial dormancy. <i>Nucleic Acids Research</i> , 2021 , 49, 2085-2101	20.1	4
12	Problems with Higgspllosion. <i>Physical Review D</i> , 2018 , 98,	4.9	4
11	FKBP10 Regulates Protein Translation to Sustain Lung Cancer Growth. <i>Cell Reports</i> , 2020 , 30, 3851-3863, e66	10.66	3
10	Pinning down the kaon form factors in $K \rightarrow \pi\pi$ decay. <i>Physical Review D</i> , 2003 , 67,	4.9	3
9	Scalar induced resonant sterile neutrino production in the early Universe. <i>Physical Review D</i> , 2020 , 101,	4.9	3
8	T-odd correlations in $B \rightarrow \pi\pi$ and $B \rightarrow \pi\ell\ell$ decays. <i>Physical Review D</i> , 2002 , 66,	4.9	2
7	Heavy light inflaton and dark matter production. <i>Physical Review D</i> , 2020 , 102,	4.9	1
6	Inflation, LHC and the Higgs boson. <i>International Journal of Modern Physics A</i> , 2015 , 30, 1545001	1.2	1
5	Towards a solution of the strong CP problem by compact extra dimensions. <i>Physical Review D</i> , 2009 , 80,	4.9	1
4	Transverse muon polarization in $(K^+ \rightarrow \mu^+ \nu_{\mu} \gamma)$: scanning over the Dalitz plot. <i>European Physical Journal C</i> , 2003 , 30, 487-496	4.2	1
3	Semiclassical S-matrix for black holes. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-42	5.4	

- 2 The \mathbb{P}^1 -Instantons in the SU(2) Higgs Theory. *Theoretical and Mathematical Physics*(Russian Federation), **2004**, 138, 397-406 0.7
- 1 Singular classical solutions and tree multiparticle cross sections. *Surveys in High Energy Physics*, **1997**, 10, 395-403