

Philippe Brax

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,045
citations

304743

22
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

935
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting dark energy in orbit: The cosmological chameleon. Physical Review D, 2004, 70, .	4.7	415
2	$f = \frac{R}{T} \frac{1}{1 + \frac{R}{T}}$	4.7	247
3	Unified description of screened modified gravity. Physical Review D, 2012, 86, .	4.7	183
4	Dilaton and modified gravity. Physical Review D, 2010, 82, .	4.7	166
5	Detecting chameleons through Casimir force measurements. Physical Review D, 2007, 76, .	4.7	112
6	What makes the Universe accelerate? A review on what dark energy could be and how to test it. Reports on Progress in Physics, 2018, 81, 016902.	20.1	111
7	Testing chameleon theories with light propagating through a magnetic field. Physical Review D, 2007, 76, .	4.7	70
8	Laboratory tests of the Galileon. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 020-020.	5.4	63
9	Atomic precision tests and light scalar couplings. Physical Review D, 2011, 83, .	4.7	63
10	Modified gravity tomography. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 38-43.	4.1	63
11	Screening fifth forces in k-essence and DBI models. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 020-020.	5.4	60
12	Screening mechanisms in modified gravity. Classical and Quantum Gravity, 2013, 30, 214005.	4.0	58
13	K-mouflage cosmology: Formation of large-scale structures. Physical Review D, 2014, 90, .	4.7	45
14	Probing strongly coupled chameleons with slow neutrons. Physical Review D, 2013, 88, .	4.7	44
15	Anomalous coupling of scalars to gauge fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 5-9.	4.1	42
16	Force sensor for chameleon and Casimir force experiments with parallel-plate configuration. Physical Review D, 2015, 91, .	4.7	35
17	Solar chameleons. Physical Review D, 2010, 82, .	4.7	32
18	Atomic interferometry test of dark energy. Physical Review D, 2016, 94, .	4.7	30

#	ARTICLE	IF	CITATIONS
19	Casimir, gravitational, and neutron tests of dark energy. <i>Physical Review D</i> , 2015, 91, .	4.7	25
20	Classical symmetron force in Casimir experiments. <i>Physical Review D</i> , 2020, 101, .	4.7	24
21	Laboratory constraints. <i>International Journal of Modern Physics D</i> , 2018, 27, 1848009.	2.1	23
22	Fate of scalar dark matter solitons around supermassive galactic black holes. <i>Physical Review D</i> , 2020, 101, .	4.7	22
23	Detection prospects for solar and terrestrial chameleons. <i>Physical Review D</i> , 2012, 85, .	4.7	19
24	Impact of kinetic and potential self-interactions on scalar dark matter. <i>Physical Review D</i> , 2019, 100, .	4.7	18
25	SUPER-screening. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 210-217.	4.1	16
26	Spin-orbit effects for compact binaries in scalar-tensor gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 075.	5.4	14
27	General study of chameleon fifth force in gravity space experiments. <i>Physical Review D</i> , 2019, 100, .	4.7	13
28	Fifth force induced by a chameleon field on nested cylinders. <i>Physical Review D</i> , 2020, 101, .	4.7	11
29	k -essence scalar dark matter solitons around supermassive black holes. <i>Physical Review D</i> , 2020, 101, .	4.7	7
30	Constraints on chameleon gravity from the measurement of the electrostatic stiffness of the M mission accelerometers. <i>Physical Review D</i> , 2021, 103, .	4.7	7
31	Nonrelativistic formation of scalar clumps as a candidate for dark matter. <i>Physical Review D</i> , 2020, 102, .	4.7	6
32	Self-similar solutions for fuzzy dark matter. <i>Physical Review D</i> , 2022, 105, .	4.7	1