

# 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	Self-similar solutions for fuzzy dark matter. Physical Review D, 2022, 105, .	4.7	1
2	Constraints on chameleon gravity from the measurement of the electrostatic stiffness of the $MlCRO$ mission accelerometers. Physical Review D, 2021, 103, .	4.7	7
3	Spin-orbit effects for compact binaries in scalar-tensor gravity. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 075.	5.4	14
4	Classical symmetron force in Casimir experiments. Physical Review D, 2020, 101, .	4.7	24
5	Nonrelativistic formation of scalar clumps as a candidate for dark matter. Physical Review D, 2020, 102, .	4.7	6
6	$k$ -essence scalar dark matter solitons around supermassive black holes. Physical Review D, 2020, 101, .	4.7	7
7	Fate of scalar dark matter solitons around supermassive galactic black holes. Physical Review D, 2020, 101, .	4.7	22
8	Fifth force induced by a chameleon field on nested cylinders. Physical Review D, 2020, 101, .	4.7	11
9	General study of chameleon fifth force in gravity space experiments. Physical Review D, 2019, 100, .	4.7	13
10	Impact of kinetic and potential self-interactions on scalar dark matter. Physical Review D, 2019, 100, .	4.7	18
11	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
12	Laboratory constraints. International Journal of Modern Physics D, 2018, 27, 1848009.	2.1	23
13	Atomic interferometry test of dark energy. Physical Review D, 2016, 94, .	4.7	30
14	Force sensor for chameleon and Casimir force experiments with parallel-plate configuration. Physical Review D, 2015, 91, .	4.7	35
15	Casimir, gravitational, and neutron tests of dark energy. Physical Review D, 2015, 91, .	4.7	25
16	K-mouflage cosmology: Formation of large-scale structures. Physical Review D, 2014, 90, .	4.7	45
17	Screening fifth forces in $k$ -essence and DBI models. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 020-020.	5.4	60
18	Screening mechanisms in modified gravity. Classical and Quantum Gravity, 2013, 30, 214005.	4.0	58

#	ARTICLE	IF	CITATIONS
19	SUPER-screening. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 210-217.	4.1	16
20	Probing strongly coupled chameleons with slow neutrons. Physical Review D, 2013, 88, .	4.7	44
21	Detection prospects for solar and terrestrial chameleons. Physical Review D, 2012, 85, .	4.7	19
22	Modified gravity tomography. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 38-43.	4.1	63
23	Unified description of screened modified gravity. Physical Review D, 2012, 86, .	4.7	183
24	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
25	Laboratory tests of the Galileon. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 020-020.	5.4	63
26	Atomic precision tests and light scalar couplings. Physical Review D, 2011, 83, .	4.7	63
27	Dilaton and modified gravity. Physical Review D, 2010, 82, .	4.7	166
28	Solar chameleons. Physical Review D, 2010, 82, .	4.7	32
29	$\int_0^1 dx \frac{1}{\sqrt{1-x^2}} = \frac{\pi}{2}$	4.7	247
30	Detecting chameleons through Casimir force measurements. Physical Review D, 2007, 76, .	4.7	112
31	Testing chameleon theories with light propagating through a magnetic field. Physical Review D, 2007, 76, .	4.7	70
32	Detecting dark energy in orbit: The cosmological chameleon. Physical Review D, 2004, 70, .	4.7	415