

# Robert J Scherrer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4532812/publications.pdf>

Version: 2024-02-01

49  
papers

3,181  
citations

257450

24  
h-index

233421

45  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of scalar field potentials with cosmological scaling solutions. <i>Physical Review D</i> , 1998, 59, .	4.7	499
2	Purely Kinetic Essence as Unified Dark Matter. <i>Physical Review Letters</i> , 2004, 93, .	7.8	435
3	The little rip. <i>Physical Review D</i> , 2011, 84, .	4.7	217
4	Cosmological baryon diffusion and nucleosynthesis. <i>Physical Review D</i> , 1987, 35, 1151-1160.	4.7	216
5	Decaying particles do not heat up the Universe. <i>Physical Review D</i> , 1985, 31, 681-688.	4.7	190
6	On the relic, cosmic abundance of stable, weakly interacting massive particles. <i>Physical Review D</i> , 1986, 33, 1585-1589.	4.7	189
7	Thawing quintessence with a nearly flat potential. <i>Physical Review D</i> , 2008, 77, .	4.7	169
8	Models for little rip dark energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 708, 204-211.	4.1	122
9	Pseudo-rip: Cosmological models intermediate between the cosmological constant and the little rip. <i>Physical Review D</i> , 2012, 85, .	4.7	106
10	Dark energy from a quintessence (phantom) field rolling near a potential minimum (maximum). <i>Physical Review D</i> , 2009, 79, .	4.7	104
11	Dark energy models in the $w$ - $\Omega$ plane. <i>Physical Review D</i> , 2006, 73, .	4.7	101
12	Generalizing the generalized Chaplygin gas. <i>Physical Review D</i> , 2005, 72, .	4.7	92
13	Primordial nucleosynthesis with decaying particles. I - Entropy-producing decays. II - Inert decays. <i>Astrophysical Journal</i> , 1988, 331, 19.	4.5	84
14	Hilltop quintessence. <i>Physical Review D</i> , 2008, 78, .	4.7	79
15	Slow-roll k-essence. <i>Physical Review D</i> , 2009, 80, .	4.7	62
16	Thermal relic abundances of particles with velocity-dependent interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 687, 275-279.	4.1	58
17	Scalar dark energy models mimicking $\Lambda$ CDM with arbitrary future evolution. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 713, 145-153.	4.1	55
18	Phantom dark energy models with negative kinetic term. <i>Physical Review D</i> , 2006, 74, .	4.7	50

#	ARTICLE	IF	CITATIONS
19	The return of a static universe and the end of cosmology. <i>General Relativity and Gravitation</i> , 2007, 39, 1545-1550.	2.0	40
20	Evolution of oscillating scalar fields as dark energy. <i>Physical Review D</i> , 2008, 78, .	4.7	35
21	Primordial Nucleosynthesis with Decaying Particles. II. Inert Decays. <i>Astrophysical Journal</i> , 1988, 331, 33.	4.5	35
22	New approach to cosmological bulk viscosity. <i>Physical Review D</i> , 2015, 91, .	4.7	32
23	Anapole dark matter at the LHC. <i>Physical Review D</i> , 2014, 89, .	4.7	30
24	Dark radiation as a signature of dark energy. <i>Physical Review D</i> , 2009, 79, .	4.7	26
25	Slow-roll freezing quintessence. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 704, 265-269.	4.1	25
26	Big bang nucleosynthesis with a stiff fluid. <i>Physical Review D</i> , 2010, 82, .	4.7	23
27	On a viable first-order formulation of relativistic viscous fluids and its applications to cosmology. <i>International Journal of Modern Physics D</i> , 2017, 26, 1750146.	2.1	12
28	Constraining primordial non-Gaussianity with moments of the large-scale density field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 1402-1415.	4.4	10
29	Swampland conjectures and slow-roll thawing quintessence. <i>Physical Review D</i> , 2020, 102, .	4.7	10
30	Classifying the behavior of noncanonical quintessence. <i>Physical Review D</i> , 2016, 93, .	4.7	8
31	Constraining density fluctuations with big bang nucleosynthesis in the era of precision cosmology. <i>Physical Review D</i> , 2018, 98, .	4.7	8
32	Radiation can never again dominate matter in a vacuum dominated universe. <i>Physical Review D</i> , 2007, 75, .	4.7	7
33	A Linear Programming Approach to Inhomogeneous Primordial Nucleosynthesis. <i>Astrophysical Journal</i> , 1996, 463, 420.	4.5	7
34	Inhomogeneous neutrino degeneracy and big bang nucleosynthesis. <i>Physical Review D</i> , 2000, 61, .	4.7	6
35	Inflection point quintessence. <i>Physical Review D</i> , 2013, 88, .	4.7	6
36	New generic evolution for $k$ -essence dark energy with $w$ $\hat{=}$ $1$ . <i>Physical Review D</i> , 2019, 100, .	4.7	6

#	ARTICLE	IF	CITATIONS
37	The coincidence problem and the Swampland conjectures in the Ijjas-Steinhardt cyclic model of the universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 134981.	4.1	6
38	Oscillating scalar fields in extended quintessence. <i>Physical Review D</i> , 2018, 97, .	4.7	5
39	Big bang nucleosynthesis with Gaussian inhomogeneous neutrino degeneracy. <i>Physical Review D</i> , 2002, 66, .	4.7	4
40	Quadratic approximation for quintessence with arbitrary initial conditions. <i>Physical Review D</i> , 2015, 91, .	4.7	3
41	Cosmology with independently varying neutrino temperature and number. <i>Physical Review D</i> , 2017, 95, .	4.7	2
42	The relation between transverse and radial velocity distributions for observations of an isotropic velocity field. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 483, L132-L137.	3.3	2
43	Exact general solutions for cosmological scalar field evolution in a background-dominated expansion. <i>Physical Review D</i> , 2022, 105, .	4.7	2
44	Observational constraints on inflection point quintessence with a cubic potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 829, 137126.	4.1	2
45	Diffusion-limited relic particle production. <i>Physical Review D</i> , 2019, 100, .	4.7	1
46	DARK ENERGY, WITH SIGNATURES. <i>International Journal of Modern Physics D</i> , 2010, 19, 2325-2330.	2.1	0
47	Cosmological evolution of ultralight axionlike scalar fields. <i>Physical Review D</i> , 2021, 103, .	4.7	0
48	Does inhomogeneous big bang nucleosynthesis produce an inhomogeneous element distribution today?. <i>Physical Review D</i> , 2021, 103, .	4.7	0
49	Evolution of decaying particles and decay products in various scenarios for the future expansion of the Universe. <i>Physical Review D</i> , 2021, 104, .	4.7	0