Robert J Scherrer

List of Publications by Year
in descending order

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	Exact general solutions for cosmological scalar field evolution in a background-dominated expansion. Physical Review D, 2022, 105, .	4.7	2
2	Observational constraints on inflection point quintessence with a cubic potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137126.	4.1	2
3	Cosmological evolution of ultralight axionlike scalar fields. Physical Review D, 2021, 103, .	4.7	0
4	Does inhomogeneous big bang nucleosynthesis produce an inhomogeneous element distribution today?. Physical Review D, 2021, 103, .	4.7	0
5	Evolution of decaying particles and decay products in various scenarios for the future expansion of the Universe. Physical Review D, 2021, 104, .	4.7	0
6	Swampland conjectures and slow-roll thawing quintessence. Physical Review D, 2020, 102, .	4.7	10
7	New generic evolution for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>k</mml:mi></mml:math> -essence dark energy with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>w</mml:mi><mml:mo>â‰ˆ</mml:mo><mml:mo>â^'</mml:mo><mml:mn>1</mml:mn></mml:math>. Physical Review D, 2019, 100, .	4.7	6
8	The coincidence problem and the Swampland conjectures in the Ijjas-Steinhardt cyclic model of the universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134981.	4.1	6
9	The relation between transverse and radial velocity distributions for observations of an isotropic velocity field. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 483, L132-L137.	3.3	2
10	Diffusion-limited relic particle production. Physical Review D, 2019, 100, .	4.7	1
11	Oscillating scalar fields in extended quintessence. Physical Review D, 2018, 97, .	4.7	5
12	Constraining density fluctuations with big bang nucleosynthesis in the era of precision cosmology. Physical Review D, 2018, 98, .	4.7	8
13	Cosmology with independently varying neutrino temperature and number. Physical Review D, 2017, 95, .	4.7	2
14	On a viable first-order formulation of relativistic viscous fluids and its applications to cosmology. International Journal of Modern Physics D, 2017, 26, 1750146.	2.1	12
15	Classifying the behavior of noncanonical quintessence. Physical Review D, 2016, 93, .	4.7	8
16	Quadratic approximation for quintessence with arbitrary initial conditions. Physical Review D, 2015, 91, .	4.7	3
17	New approach to cosmological bulk viscosity. Physical Review D, 2015, 91, .	4.7	32
18	Constraining primordial non-Gaussianity with moments of the large-scale density field. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1402-1415.	4.4	10

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19	Anapole dark matter at the LHC. Physical Review D, 2014, 89, .	4.7	30
20	Inflection point quintessence. Physical Review D, 2013, 88, .	4.7	6
21	Scalar dark energy models mimicking Î›CDM with arbitrary future evolution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 145-153.	4.1	55
22	Pseudo-rip: Cosmological models intermediate between the cosmological constant and the little rip. Physical Review D, 2012, 85, .	4.7	106
23	Models for little rip dark energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 204-211.	4.1	122
24	The little rip. Physical Review D, 2011, 84, .	4.7	217
25	Slow-roll freezing quintessence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 265-269.	4.1	25
26	Thermal relic abundances of particles with velocity-dependent interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 275-279.	4.1	58
27	DARK ENERGY, WITH SIGNATURES. International Journal of Modern Physics D, 2010, 19, 2325-2330.	2.1	0
28	Big bang nucleosynthesis with a stiff fluid. Physical Review D, 2010, 82, .	4.7	23
29	Slow-roll k-essence. Physical Review D, 2009, 80, .	4.7	62
30	Dark energy from a quintessence (phantom) field rolling near a potential minimum (maximum). Physical Review D, 2009, 79, .	4.7	104
31	Dark radiation as a signature of dark energy. Physical Review D, 2009, 79, .	4.7	26
32	Evolution of oscillating scalar fields as dark energy. Physical Review D, 2008, 78, .	4.7	35
33	Hilltop quintessence. Physical Review D, 2008, 78, .	4.7	79
34	Thawing quintessence with a nearly flat potential. Physical Review D, 2008, 77, .	4.7	169
35	Radiation can never again dominate matter in a vacuum dominated universe. Physical Review D, 2007, 75, .	4.7	7
36	The return of a static universe and the end of cosmology. General Relativity and Gravitation, 2007, 39, 1545-1550.	2.0	40

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37	Phantom dark energy models with negative kinetic term. Physical Review D, 2006, 74, .	4.7	50
38	Dark energy models in thewâˆ'wâ€²plane. Physical Review D, 2006, 73, .	4.7	101
39	Generalizing the generalized Chaplygin gas. Physical Review D, 2005, 72, .	4.7	92
40	Purely KinetickEssence as Unified Dark Matter. Physical Review Letters, 2004, 93, .	7.8	435
41	Big bang nucleosynthesis with Gaussian inhomogeneous neutrino degeneracy. Physical Review D, 2002, 66, .	4.7	4
42	Inhomogeneous neutrino degeneracy and big bang nucleosynthesis. Physical Review D, 2000, 61, .	4.7	6
43	Classification of scalar field potentials with cosmological scaling solutions. Physical Review D, 1998, 59, .	4.7	499
44	A Linear Programming Approach to Inhomogeneous Primordial Nucleosynthesis. Astrophysical Journal, 1996, 463, 420.	4.5	7
45	Primordial nucleosynthesis with decaying particles. I - Entropy-producing decays. II - Inert decays. Astrophysical Journal, 1988, 331, 19.	4.5	84
46	Primordial Nucleosynthesis with Decaying Particles. II. Inert Decays. Astrophysical Journal, 1988, 331, 33.	4.5	35
47	Cosmological baryon diffusion and nucleosynthesis. Physical Review D, 1987, 35, 1151-1160.	4.7	216
48	On the relic, cosmic abundance of stable, weakly interacting massive particles. Physical Review D, 1986, 33, 1585-1589.	4.7	189
49	Decaying particles do not â€˜â€˜heat upâ€™â€™ the Universe. Physical Review D, 1985, 31, 681-688.	4.7	190