

Winfried Zimdahl

List of Publications by Year in descending order

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44
papers

3,360
citations

257450

24
h-index

254184

43
g-index

44
all docs

44
docs citations

44
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Early-time thermalization of cosmic components? A hint for solving cosmic tensions. Physical Review D, 2021, 104, .	4.7	6
2	Unphysical properties in a class of interacting dark energy models. European Physical Journal C, 2020, 80, 1.	3.9	2
3	Matter growth in extended Λ CDM cosmology. International Journal of Modern Physics D, 2019, 28, 1950086.	2.1	1
4	Cosmological constraints on parametrized interacting dark energy. Physics of the Dark Universe, 2019, 23, 100248.	4.9	48
5	Matter Growth in Imperfect Fluid Cosmology. Universe, 2019, 5, 68.	2.5	4
6	Averaged Lemaître-Tolman-Bondi dynamics. Classical and Quantum Gravity, 2017, 34, 035001.	4.0	7
7	Does a generalized Chaplygin gas correctly describe the cosmological dark sector?. Physics of the Dark Universe, 2017, 15, 114-124.	4.9	34
8	Is the cosmological dark sector better modeled by a generalized Chaplygin gas or by a scalar field?. European Physical Journal C, 2017, 77, 1.	3.9	1
9	Scalar-tensor extension of the Λ CDM model. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 034-034.	5.4	7
10	Cosmic bulk viscosity through backreaction. General Relativity and Gravitation, 2016, 48, 1.	2.0	10
11	Matter perturbations in scaling cosmology. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2958-2967.	4.4	12
12	Aspects of the cosmological "coincidence problem". European Physical Journal C, 2014, 74, 1.	3.9	172
13	Baryonic matter perturbations in decaying vacuum cosmology. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 004-004.	5.4	12
14	Interacting photon-baryon fluid, warm dark matter, and the first acoustic peak. European Physical Journal C, 2014, 74, 1.	3.9	5
15	Cosmology with Ricci dark energy. Physical Review D, 2013, 87, .	4.7	22
16	Viscous dark matter growth in (neo-)Newtonian cosmology. Physical Review D, 2013, 88, .	4.7	36
17	Non-adiabatic Chaplygin gas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 37-42.	4.1	26
18	A cosmological concordance model with dynamical vacuum term. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 165-170.	4.1	55

#	ARTICLE	IF	CITATIONS
19	Cosmological dynamics with nonlinear interactions. <i>Classical and Quantum Gravity</i> , 2012, 29, 235001.	4.0	58
20	A thermodynamic characterization of future singularities?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 708, 217-220.	4.1	15
21	Perturbações cosmológicas e a taxa de crescimento das flutuações da matéria. <i>Revista Brasileira De Ensino De Fisica</i> , 2012, 34, 1-9.	0.2	0
22	Holographic dark-energy models. <i>Physical Review D</i> , 2011, 83, .	4.7	72
23	VISCOUS DARK FLUID UNIVERSE: A UNIFIED MODEL OF THE DARK SECTOR?. <i>International Journal of Modern Physics Conference Series</i> , 2011, 03, 312-323.	0.7	9
24	Unified models of the cosmological dark sector. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012057.	0.4	1
25	Non-adiabatic perturbations in decaying vacuum cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 028-028.	5.4	32
26	Bulk viscous cosmology with causal transport theory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 029-029.	5.4	63
27	Power-law solutions and accelerated expansion in scalar-tensor theories. <i>Physical Review D</i> , 2010, 82, .	4.7	10
28	Transient cosmic acceleration from interacting fluids. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 008-008.	5.4	20
29	Matter power spectrum for the generalized Chaplygin gas model: The relativistic case. <i>Physical Review D</i> , 2010, 81, .	4.7	25
30	Viscous dark fluid universe. <i>Physical Review D</i> , 2010, 82, .	4.7	81
31	Non-adiabatic dark fluid cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 016-016.	5.4	67
32	Matter power spectrum for the generalized Chaplygin gas model: The Newtonian approach. <i>Physical Review D</i> , 2008, 78, .	4.7	32
33	DARK ENERGY: A UNIFYING VIEW. <i>International Journal of Modern Physics D</i> , 2008, 17, 651-658.	2.1	23
34	Interacting holographic dark energy. <i>Classical and Quantum Gravity</i> , 2007, 24, 5461-5478.	4.0	117
35	Bulk viscous cosmology. <i>Physical Review D</i> , 2007, 76, .	4.7	100
36	Holographic dark energy and cosmic coincidence. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 628, 206-210.	4.1	531

#	ARTICLE	IF	CITATIONS
37	Chaplygin gas with non-adiabatic pressure perturbations. <i>Classical and Quantum Gravity</i> , 2005, 22, 4311-4324.	4.0	42
38	Letter: Statefinder Parameters for Interacting Dark Energy. <i>General Relativity and Gravitation</i> , 2004, 36, 1483-1491.	2.0	135
39	Cosmic microwave background constraints on interacting cosmological models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2004, 2004, 009-009.	5.4	41
40	Scaling Cosmology. <i>General Relativity and Gravitation</i> , 2003, 35, 413-422.	2.0	136
41	Interacting quintessence solution to the coincidence problem. <i>Physical Review D</i> , 2003, 67, .	4.7	435
42	Curvature force and dark energy. <i>New Journal of Physics</i> , 2003, 5, 85-85.	2.9	79
43	Cosmic antifriction and accelerated expansion. <i>Physical Review D</i> , 2001, 64, .	4.7	257
44	Interacting quintessence. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 521, 133-138.	4.1	519