

# Jens C Niemeyer

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

4,158  
citations

156536

32  
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190340

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g-index

62  
all docs

62  
docs citations

62  
times ranked

2927  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational collapse in the postinflationary Universe. <i>Physical Review D</i> , 2022, 105, .	1.6	22
2	Deep Zoom-In Simulation of a Fuzzy Dark Matter Galactic Halo. <i>Physical Review Letters</i> , 2022, 128, 181301.	2.9	16
3	New insights into the formation and growth of boson stars in dark matter halos. <i>Physical Review D</i> , 2021, 104, .	1.6	43
4	Simulating mixed fuzzy and cold dark matter. <i>Physical Review D</i> , 2020, 102, .	1.6	46
5	Small-scale structure of fuzzy and axion-like dark matter. <i>Progress in Particle and Nuclear Physics</i> , 2020, 113, 103787.	5.6	101
6	Strong Constraints on Fuzzy Dark Matter from Ultrafaint Dwarf Galaxy Eridanus II. <i>Physical Review Letters</i> , 2019, 123, 051103.	2.9	116
7	Modelling turbulent effects of stellar feedback in cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4654-4672.	1.6	0
8	Neutron star-axion star collisions in the light of multimessenger astronomy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 908-914.	1.6	29
9	Formation and mass growth of axion stars in axion miniclusters. <i>Physical Review D</i> , 2019, 100, .	1.6	71
10	Tidal disruption of fuzzy dark matter subhalo cores. <i>Physical Review D</i> , 2018, 97, .	1.6	50
11	Formation and structure of ultralight bosonic dark matter halos. <i>Physical Review D</i> , 2018, 98, .	1.6	143
12	Substructure of fuzzy dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 941-951.	1.6	70
13	Core-halo mass relation of ultralight axion dark matter from merger history. <i>Physical Review D</i> , 2017, 95, .	1.6	31
14	Hot and turbulent gas in clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 701-719.	1.6	17
15	Simulations of solitonic core mergers in ultralight axion dark matter cosmologies. <i>Physical Review D</i> , 2016, 94, .	1.6	224
16	Cosmological particle-in-cell simulations with ultralight axion dark matter. <i>Physical Review D</i> , 2016, 94, .	1.6	77
17	The anisotropic line correlation function as a probe of anisotropies in galaxy surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 797-809.	1.6	16
18	Large-eddy simulations of isolated disc galaxies with thermal and turbulent feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 3407-3426.	1.6	16

#	ARTICLE	IF	CITATIONS
19	Cosmological fluid mechanics with adaptively refined large eddy simulations. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3051-3077.	1.6	34
20	Impact of baryonic streaming velocities on the formation of supermassive black holes via direct collapse. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2969-2975.	1.6	37
21	The characteristic black hole mass resulting from direct collapse in the early Universe. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2989-2996.	1.6	129
22	Magnetic fields during high redshift structure formation. Astronomische Nachrichten, 2013, 334, 531-536.	0.6	9
23	Probing two-field open inflation by resonant signals in correlation functions. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 006-006.	1.9	29
24	High-resolution studies of massive primordial haloes. Monthly Notices of the Royal Astronomical Society, 2013, 430, 588-598.	1.6	64
25	The small-scale dynamo and the amplification of magnetic fields in massive primordial haloes. Monthly Notices of the Royal Astronomical Society, 2013, 432, 668-678.	1.6	66
26	Black hole formation in the early Universe. Monthly Notices of the Royal Astronomical Society, 2013, 433, 1607-1618.	1.6	176
27	THE FORMATION OF MASSIVE POPULATION III STARS IN THE PRESENCE OF TURBULENCE. Astrophysical Journal Letters, 2013, 772, L3.	3.0	48
28	Turbulence production and turbulent pressure support in the intergalactic medium. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2297-2308.	1.6	63
29	TURBULENCE IN A THREE-DIMENSIONAL DEFLAGRATION MODEL FOR TYPE Ia SUPERNOVAE. II. INTERMITTENCY AND THE DEFLAGRATION-TO-DETONATION TRANSITION PROBABILITY. Astrophysical Journal, 2010, 710, 1683-1693.	1.6	19
30	Anisotropic Kantowski-Sachs universe from gravitational tunneling and its observational signatures. Physical Review D, 2010, 82, .	1.6	27
31	Numerical Models of Turbulence in Isothermal and Thermally Bistable Interstellar Gas. , 2010, , 371-382.		0
32	Turbulence Modeling and the Physics of the Intra-Cluster Medium. , 2010, , 383-394.		0
33	ADAPTIVELY REFINED LARGE EDDY SIMULATIONS OF A GALAXY CLUSTER: TURBULENCE MODELING AND THE PHYSICS OF THE INTRACLUSTER MEDIUM. Astrophysical Journal, 2009, 707, 40-54.	1.6	56
34	TURBULENCE IN A THREE-DIMENSIONAL DEFLAGRATION MODEL FOR TYPE Ia SUPERNOVAE. I. SCALING PROPERTIES. Astrophysical Journal, 2009, 696, 1491-1497.	1.6	37
35	Tunneling and propagation of vacuum bubbles on dynamical backgrounds. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 008-008.	1.9	13
36	Star Formation in the Turbulent Interstellar Medium and Its Implications on Galaxy Evolution. , 2009, , 79-91.		0

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37	Modeling of Turbulent Flows Applied to Numerical Simulations of Galaxy Clusters. , 2009, , 45-56.		0
38	Hydrodynamical adaptive mesh refinement simulations of turbulent flows - I. Substructure in a wind. Monthly Notices of the Royal Astronomical Society, 2008, 388, 1079-1088.	1.6	36
39	Hydrodynamical adaptive mesh refinement simulations of turbulent flows - II. Cosmological simulations of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2008, 388, 1089-1100.	1.6	84
40	Inflationary spectra from Lorentz violating dissipative models. Physical Review D, 2008, 78, .	1.6	7
41	A Three-Dimensional Deflagration Model for Type Ia Supernovae Compared with Observations. Astrophysical Journal, 2007, 668, 1132-1139.	1.6	143
42	Damped corrections to inflationary spectra from a fluctuating cutoff. Physical Review D, 2007, 76, .	1.6	7
43	Numerical dissipation and the bottleneck effect in simulations of compressible isotropic turbulence. Computers and Fluids, 2006, 35, 353-371.	1.3	69
44	Modelling Turbulent Deflagrations in Type Ia Supernovae. Nuclear Physics A, 2005, 758, 431-438.	0.6	1
45	Level set simulations of turbulent thermonuclear deflagration in degenerate carbon and oxygen. Combustion Theory and Modelling, 2005, 9, 693-720.	1.0	14
46	Thermonuclear Supernovae. EAS Publications Series, 2004, 11, 141-162.	0.3	0
47	Multidimensional simulations of type Ia supernova explosions and nucleosynthesis. Nuclear Physics A, 2003, 718, 229-238.	0.6	1
48	On the Small-Scale Stability of Thermonuclear Flames in Type Ia Supernovae. Astrophysical Journal, 2003, 588, 952-961.	1.6	43
49	Varying speed of light cosmology from a stringy short distance cutoff. Physical Review D, 2002, 65, .	1.6	20
50	Minimal modifications of the primordial power spectrum from an adiabatic short distance cutoff. Physical Review D, 2002, 66, .	1.6	68
51	Perturbation spectrum in inflation with a cutoff. Physical Review D, 2001, 64, .	1.6	192
52	Inflation with a Planck-scale frequency cutoff. Physical Review D, 2001, 63, .	1.6	193
53	Trans-Planckian dispersion and scale invariance of inflationary perturbations. Physical Review D, 2001, 64, .	1.6	132
54	Thermonuclear supernovae. Computer Physics Communications, 2000, 127, 53-58.	3.0	4

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55	Nonlinear evolution of de Sitter space instabilities. <i>Physical Review D</i> , 2000, 62, .	1.6	13
56	Type Ia Supernova Explosion Models. <i>Annual Review of Astronomy and Astrophysics</i> , 2000, 38, 191-230.	8.1	967
57	Numerical Investigation of Scaling Properties of Turbulent Premixed Flames. <i>Combustion Science and Technology</i> , 1997, 128, 343-358.	1.2	8
58	The Thermonuclear Explosion of Chandrasekhar Mass White Dwarfs. <i>Astrophysical Journal</i> , 1997, 475, 740-753.	1.6	194
59	Off-Center Deflagrations in Chandrasekhar Mass Type Ia Supernova Models. <i>Astrophysical Journal</i> , 1996, 471, 903-914.	1.6	64
60	Small Steps Toward Realistic Explosion Models of Type Ia Supernovae. , 0, , 151-157.		3
61	Nuclear Combustion. , 0, , .		0