

Enric Verdaguer

List of Publications by Year in descending order

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110
papers

2,334
citations

172457

29
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214800

47
g-index

116
all docs

116
docs citations

116
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	Transverse Fierz-Pauli symmetry. Nuclear Physics B, 2006, 756, 148-170.	2.5	142
2	Semiclassical equations for weakly inhomogeneous cosmologies. Physical Review D, 1994, 49, 1861-1880.	4.7	108
3	Stochastic Gravity: Theory and Applications. Living Reviews in Relativity, 2008, 11, 1.	26.7	106
4	Stochastic semiclassical equations for weakly inhomogeneous cosmologies. Physical Review D, 1996, 53, 1927-1937.	4.7	102
5	Stochastic Gravity: Theory and Applications. Living Reviews in Relativity, 2004, 7, 3.	26.7	90
6	Stochastic semiclassical gravity. Physical Review D, 1999, 60, .	4.7	89
7	Stochastic description for open quantum systems. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 188-212.	2.6	83
8	Scattering of quantum particles by gravitational plane waves. Physical Review D, 1991, 43, 391-401.	4.7	78
9	Stochastic semiclassical cosmological models. Physical Review D, 1997, 56, 2163-2172.	4.7	76
10	Stochastic semiclassical fluctuations in Minkowski spacetime. Physical Review D, 2000, 61, .	4.7	73
11	Soliton solutions in spacetimes with two spacelike killing fields. Physics Reports, 1993, 229, 1-80.	25.6	69
12	Induced quantum metric fluctuations and the validity of semiclassical gravity. Physical Review D, 2004, 70, .	4.7	68
13	Stochastic gravity: a primer with applications. Classical and Quantum Gravity, 2003, 20, R1-R42.	4.0	63
14	On the semiclassical Einstein-Langevin equation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 465, 113-118.	4.1	62
15	Soliton solutions and cosmological gravitational waves. Physical Review D, 1983, 28, 2995-3006.	4.7	55
16	Particle production in inhomogeneous cosmologies. Physical Review D, 1990, 41, 1022-1033.	4.7	46
17	Cosmological perturbations from stochastic gravity. Physical Review D, 2008, 78, .	4.7	46
18	Spacelike Fluctuations of the Stress Tensor for de Sitter Vacuum. International Journal of Theoretical Physics, 1999, 38, 3123-3133.	1.2	45

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19	One-loop gravitational wave spectrum in de Sitter spacetime. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 009-009.	5.4	41
20	An Effective Stochastic Semiclassical Theory for the Gravitational Field. <i>International Journal of Theoretical Physics</i> , 1999, 38, 3049-3089.	1.2	39
21	Soliton Collision in General Relativity. <i>Physical Review Letters</i> , 1983, 51, 1313-1315.	7.8	37
22	Mode decomposition and renormalization in semiclassical gravity. <i>Physical Review D</i> , 1999, 60, .	4.7	37
23	Vacuum decay in quantum field theory. <i>Physical Review D</i> , 2001, 64, .	4.7	37
24	Stress tensor fluctuations in de Sitter spacetime. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 036-036.	5.4	36
25	Back-reaction equations for isotropic cosmologies when nonconformal particles are created. <i>International Journal of Theoretical Physics</i> , 1997, 36, 2525-2543.	1.2	35
26	Semiclassical Cosmological Perturbations Generated During Inflation. <i>International Journal of Theoretical Physics</i> , 2000, 39, 1831-1839.	1.2	34
27	Cosmic strings and Einstein-Rosen soliton waves. <i>Physical Review D</i> , 1987, 36, 2250-2258.	4.7	32
28	Production of spin- $\frac{1}{2}$ particles in inhomogeneous cosmologies. <i>Physical Review D</i> , 1992, 45, 4428-4438.	4.7	32
29	Backreaction from non-conformal quantum fields in de Sitter spacetime. <i>Classical and Quantum Gravity</i> , 2008, 25, 154013.	4.0	31
30	Particle creation due to cosmological contraction of extra dimensions. <i>Physical Review D</i> , 1989, 39, 1072-1083.	4.7	29
31	Stability of Semiclassical Gravity Solutions with Respect to Quantum Metric Fluctuations. <i>International Journal of Theoretical Physics</i> , 2004, 43, 749-766.	1.2	29
32	Semiclassical back reaction in the formation of a straight cosmic string. <i>Physical Review D</i> , 1995, 52, 4319-4336.	4.7	28
33	Multisoliton solutions to Einstein's equations. <i>Physical Review D</i> , 1985, 31, 251-257.	4.7	27
34	Radiative isotropic cosmologies with extra dimensions. <i>Physical Review D</i> , 1986, 34, 1202-1204.	4.7	27
35	Propagation in a thermal graviton background. <i>Physical Review D</i> , 2004, 70, .	4.7	21
36	Stability of de Sitter spacetime under isotropic perturbations in semiclassical gravity. <i>Physical Review D</i> , 2008, 77, .	4.7	21

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37	Nonperturbative semiclassical stability of de Sitter spacetime for small metric deviations. Physical Review D, 2013, 87, .	4.7	21
38	Finite perturbations on Friedmann-Robertson-Walker models. Astrophysical Journal, 1986, 306, 401.	4.5	21
39	Noise induced transitions in semiclassical cosmology. Physical Review D, 1999, 59, .	4.7	20
40	Riemann correlator in de Sitter including loop corrections from conformal fields. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 048-048.	5.4	17
41	Quantum fields interacting with colliding plane waves: particle creation. Nuclear Physics B, 1993, 403, 770-808.	2.5	16
42	Gravitational particle production by cosmic strings. Nuclear Physics B, 1990, 339, 560-576.	2.5	15
43	Stationary axisymmetric one-soliton solutions of the Einstein equations. Journal of Physics A, 1982, 15, 1261-1270.	1.6	14
44	Quantum corrections to the gravitational potentials of a point source due to conformal fields in de Sitter. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 015-015.	5.4	13
45	Dissipation, Noise, and Vacuum Decay in Quantum Field Theory. Physical Review Letters, 2001, 88, 010403.	7.8	11
46	Quantum corrections for spinning particles in de Sitter. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 022-022.	5.4	11
47	Quantum metric spaces as a model for pregeometry. Physical Review D, 1992, 45, 2033-2043.	4.7	10
48	Real-time approach to tunnelling in open quantum systems: decoherence and anomalous diffusion. Journal of Physics A, 2006, 39, 9503-9532.	1.6	10
49	STOCHASTIC GROSS-PITAEVSKY EQUATION FOR BEC VIA COARSE-GRAINED EFFECTIVE ACTION. International Journal of Modern Physics B, 2007, 21, 4239-4247.	2.0	9
50	Anisotropic fluid with $SU(2)$ -type structure in general relativity: A model of localized matter. Journal of Mathematical Physics, 1987, 28, 2431-2436.	1.1	8
51	Particle creation in a colliding plane wave spacetime: Wave packet quantization. Physical Review D, 1994, 50, 2631-2644.	4.7	8
52	Master Equation for Quantum Brownian Motion Derived by Stochastic Methods. International Journal of Theoretical Physics, 2001, 40, 2317-2332.	1.2	8
53	Einstein-Rosen metrics generated by the inverse scattering transform. General Relativity and Gravitation, 1986, 18, 1141-1158.	2.0	7
54	Generalised soliton solutions of the Weyl class. Classical and Quantum Gravity, 1989, 6, 845-856.	4.0	7

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55	Quantum fields interacting with colliding plane waves: the stress-energy tensor and backreaction. Nuclear Physics B, 1997, 484, 435-475.	2.5	7
56	Activation-Like Processes at Zero Temperature. International Journal of Theoretical Physics, 2003, 42, 1257-1280.	1.2	7
57	On a generalized soliton solution as an inhomogeneous cosmological model. General Relativity and Gravitation, 1986, 18, 1045-1054.	2.0	6
58	Gravitational wave pulse and soliton wave collision. Physical Review D, 1987, 36, 2259-2266.	4.7	6
59	Cosmic walls and axially symmetric Λ models. Classical and Quantum Gravity, 1989, 6, 705-716.	4.0	6
60	Gravitational particle production during cosmic string formation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 232, 299-301.	4.1	6
61	Reheating in inflationary cosmologies: Geometric coupling of the "inflaton" to quantum fields. Physical Review D, 1991, 43, 1032-1037.	4.7	6
62	A new action for the gravitational interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 51-55.	4.1	6
63	Inhomogeneous Cosmologies with Shock Waves. Astrophysical Journal, 1992, 397, 390.	4.5	6
64	Interaction among systems of finite size in predictive relativistic mechanics. I. General framework. Physical Review D, 1981, 24, 3094-3102.	4.7	5
65	Cosmological Einstein-Rosen metrics and generalised soliton solutions. Classical and Quantum Gravity, 1987, 4, L7-L11.	4.0	5
66	Cosmic strings in extra dimensions. Physical Review D, 1988, 37, 2333-2336.	4.7	5
67	Retarded Green Functions and Modified Dispersion Relations. International Journal of Theoretical Physics, 2005, 44, 1665-1689.	1.2	5
68	Interaction among systems of finite size in predictive relativistic mechanics. II. Electromagnetic and gravitational interactions. Physical Review D, 1981, 24, 3103-3112.	4.7	4
69	Generation of gravitational waves in vacuum FRW models. Classical and Quantum Gravity, 1986, 3, 1235-1245.	4.0	4
70	Gravitational Field of Superconducting Cosmic Strings. Physical Review Letters, 1988, 60, 2228-2228.	7.8	4
71	Gravitational particle production in the formation of global monopoles and domain walls. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 246, 371-376.	4.1	4
72	Particle Propagation in Cosmological Backgrounds. International Journal of Theoretical Physics, 2007, 46, 2227-2241.	1.2	4

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73	Quantum properties of the polytopic action in some simple geometries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 304, 225-234.	4.1	3
74	Editorial note to: R. P. Kerr and A. Schild, A new class of vacuum solutions of the Einstein field equations. General Relativity and Gravitation, 2009, 41, 2469-2484.	2.0	3
75	Particle and string fluid interpretation for the scalar sector of Kaluza-Klein theories. Physical Review D, 1987, 36, 2981-2985.	4.7	2
76	The quantum dimension of space-time. Chaos, Solitons and Fractals, 1994, 4, 411-414.	5.1	2
77	Gravity-Mediated Modifications of the Dispersion Relation in Nontrivial Backgrounds. International Journal of Theoretical Physics, 2004, 43, 731-747.	1.2	2
78	Imprints of cosmic strings on the cosmological gravitational wave background. Physical Review D, 2008, 78, .	4.7	2
79	Classical cross sections for relativistic spinning particles. Physical Review D, 1983, 28, 317-324.	4.7	1
80	Interaction among systems of finite size in predictive relativistic mechanics. III. Short-range interaction and second-order terms. Physical Review D, 1983, 28, 325-333.	4.7	1
81	Casimir force between a plate and a straight line. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 195, 240-244.	4.1	1
82	Testing the quality factor with some approximate solutions to Einstein's equations. General Relativity and Gravitation, 1988, 20, 1249-1262.	2.0	1
83	A family of inhomogeneous cosmological Einstein-Rosen metrics. Journal of Mathematical Physics, 1989, 30, 442-445.	1.1	1
84	GRAVITATIONAL PARTICLE PRODUCTION BY COSMIC TEXTURES. Modern Physics Letters A, 1992, 07, 181-185.	1.2	1
85	Noise and fluctuations in gravitation and cosmology. , 2003, , .		1
86	Graviton production in the scaling of a long-cosmic-string network. Physical Review D, 2011, 84, .	4.7	1
87	METRIC FLUCTUATIONS IN DE SITTER SPACETIME IN STOCHASTIC GRAVITY. International Journal of Modern Physics D, 2011, 20, 851-860.	2.1	1
88	Gravitational fluctuations in de Sitter cosmology. Journal of Physics: Conference Series, 2011, 314, 012008.	0.4	1
89	Approximate Poincare invariance of the post-Newtonian metric tensor and gauge conditions. Journal of Physics A, 1980, 13, 3011-3021.	1.6	0
90	Peyresq Physics Workshops 11 and 12 "Micro and Macro Structure of Spacetime", Peyresq, Alpes de Haute Provence, France (17-23 June 2006 and 16-22 June 2007). Classical and Quantum Gravity, 2008, 25, 150301.	4.0	0

#	ARTICLE	IF	CITATIONS
91	Overview: Main Themes. Key Issues. Reader's Guide. , 2020, , 1-34.		0
92	â€œIn-Outâ€™ Effective Action. Dimensional Regularization. , 2020, , 37-78.		0
93	â€œIn-Inâ€™ Effective Action. Stress Tensor. Thermal Fields. , 2020, , 79-112.		0
94	Stress-Energy Tensor and Correlators: Zeta-Function Method. , 2020, , 113-149.		0
95	Stress-Energy Tensor and Correlation. Point Separation. , 2020, , 150-182.		0
96	Infrared Behavior of Interacting Quantum Field. , 2020, , 185-227.		0
97	Advanced Field Theory Topics. , 2020, , 228-264.		0
98	Backreaction of Early Universe Quantum Processes. , 2020, , 265-314.		0
99	Metric Correlations at One-Loop: In-In and Large N. , 2020, , 317-336.		0
100	The Einsteinâ€™Langevin Equation. , 2020, , 337-363.		0
101	Metric Fluctuations in Minkowski Spacetime. , 2020, , 364-388.		0
102	Cosmological Backreaction with Fluctuations. , 2020, , 391-409.		0
103	Structure Formation in the Early Universe. , 2020, , 410-422.		0
104	Black Hole Backreaction and Fluctuations. , 2020, , 423-464.		0
105	Stress-Energy Tensor Fluctuations in de Sitter Space. , 2020, , 467-482.		0
106	Two-Point Metric Perturbations in de Sitter. , 2020, , 483-518.		0
107	Riemann Tensor Correlator in de Sitter. , 2020, , 519-539.		0
108	Epilogue: Linkage with Quantum Gravity. , 2020, , 540-549.		0

#	ARTICLE	IF	CITATIONS
109	Validity of semiclassical gravity in the stochastic gravity approach. Brazilian Journal of Physics, 2005, 35, .	1.4	0
110	Gravitational particle production by cosmic topological defects. , 1993, , 187-215.		0