

# Enric Verdaguer

## List of Publications by Year in descending order

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110  
papers

2,334  
citations

172207

29  
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214527

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116  
all docs

116  
docs citations

116  
times ranked

577  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview: Main Themes. Key Issues. Reader's Guide. , 2020, , 1-34.		0
2	â€œIn-Outâ€™ Effective Action. Dimensional Regularization. , 2020, , 37-78.		0
3	â€œIn-Inâ€™ Effective Action. Stress Tensor. Thermal Fields. , 2020, , 79-112.		0
4	Stress-Energy Tensor and Correlators: Zeta-Function Method. , 2020, , 113-149.		0
5	Stress-Energy Tensor and Correlation. Point Separation. , 2020, , 150-182.		0
6	Infrared Behavior of Interacting Quantum Field. , 2020, , 185-227.		0
7	Advanced Field Theory Topics. , 2020, , 228-264.		0
8	Backreaction of Early Universe Quantum Processes. , 2020, , 265-314.		0
9	Metric Correlations at One-Loop: In-In and Large N. , 2020, , 317-336.		0
10	The Einstein-Langevin Equation. , 2020, , 337-363.		0
11	Metric Fluctuations in Minkowski Spacetime. , 2020, , 364-388.		0
12	Cosmological Backreaction with Fluctuations. , 2020, , 391-409.		0
13	Structure Formation in the Early Universe. , 2020, , 410-422.		0
14	Black Hole Backreaction and Fluctuations. , 2020, , 423-464.		0
15	Stress-Energy Tensor Fluctuations in de Sitter Space. , 2020, , 467-482.		0
16	Two-Point Metric Perturbations in de Sitter. , 2020, , 483-518.		0
17	Riemann Tensor Correlator in de Sitter. , 2020, , 519-539.		0
18	Epilogue: Linkage with Quantum Gravity. , 2020, , 540-549.		0

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19	Quantum corrections for spinning particles in de Sitter. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 022-022.	1.9	11
20	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.	1.9	13
21	Riemann correlator in de Sitter including loop corrections from conformal fields. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 048-048.	1.9	17
22	Nonperturbative semiclassical stability of de Sitter spacetime for small metric deviations. Physical Review D, 2013, 87, .	1.6	21
23	One-loop gravitational wave spectrum in de Sitter spacetime. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 009-009.	1.9	41
24	Graviton production in the scaling of a long-cosmic-string network. Physical Review D, 2011, 84, .	1.6	1
25	METRIC FLUCTUATIONS IN DE SITTER SPACETIME IN STOCHASTIC GRAVITY. International Journal of Modern Physics D, 2011, 20, 851-860.	0.9	1
26	Gravitational fluctuations in de Sitter cosmology. Journal of Physics: Conference Series, 2011, 314, 012008.	0.3	1
27	Stress tensor fluctuations in de Sitter spacetime. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 036-036.	1.9	36
28	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.	0.7	3
29	Imprints of cosmic strings on the cosmological gravitational wave background. Physical Review D, 2008, 78, .	1.6	2
30	Stability of de Sitter spacetime under isotropic perturbations in semiclassical gravity. Physical Review D, 2008, 77, .	1.6	21
31	Cosmological perturbations from stochastic gravity. Physical Review D, 2008, 78, .	1.6	46
32	Backreaction from non-conformal quantum fields in de Sitter spacetime. Classical and Quantum Gravity, 2008, 25, 154013.	1.5	31
33	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.	1.5	0
34	Stochastic Gravity: Theory and Applications. Living Reviews in Relativity, 2008, 11, 1.	8.2	106
35	STOCHASTIC GROSS-PITAEVSKY EQUATION FOR BEC VIA COARSE-GRAINED EFFECTIVE ACTION. International Journal of Modern Physics B, 2007, 21, 4239-4247.	1.0	9
36	Particle Propagation in Cosmological Backgrounds. International Journal of Theoretical Physics, 2007, 46, 2227-2241.	0.5	4

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37	Transverse Fierz-Pauli symmetry. Nuclear Physics B, 2006, 756, 148-170.	0.9	142
38	Real-time approach to tunnelling in open quantum systems: decoherence and anomalous diffusion. Journal of Physics A, 2006, 39, 9503-9532.	1.6	10
39	Retarded Green Functions and Modified Dispersion Relations. International Journal of Theoretical Physics, 2005, 44, 1665-1689.	0.5	5
40	Validity of semiclassical gravity in the stochastic gravity approach. Brazilian Journal of Physics, 2005, 35, .	0.7	0
41	Propagation in a thermal graviton background. Physical Review D, 2004, 70, .	1.6	21
42	Induced quantum metric fluctuations and the validity of semiclassical gravity. Physical Review D, 2004, 70, .	1.6	68
43	Gravity-Mediated Modifications of the Dispersion Relation in Nontrivial Backgrounds. International Journal of Theoretical Physics, 2004, 43, 731-747.	0.5	2
44	Stability of Semiclassical Gravity Solutions with Respect to Quantum Metric Fluctuations. International Journal of Theoretical Physics, 2004, 43, 749-766.	0.5	29
45	Stochastic Gravity: Theory and Applications. Living Reviews in Relativity, 2004, 7, 3.	8.2	90
46	Activation-Like Processes at Zero Temperature. International Journal of Theoretical Physics, 2003, 42, 1257-1280.	0.5	7
47	Stochastic description for open quantum systems. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 188-212.	1.2	83
48	Stochastic gravity: a primer with applications. Classical and Quantum Gravity, 2003, 20, R1-R42.	1.5	63
49	Noise and fluctuations in gravitation and cosmology. , 2003, , .		1
50	Dissipation, Noise, and Vacuum Decay in Quantum Field Theory. Physical Review Letters, 2001, 88, 010403.	2.9	11
51	Master Equation for Quantum Brownian Motion Derived by Stochastic Methods. International Journal of Theoretical Physics, 2001, 40, 2317-2332.	0.5	8
52	Vacuum decay in quantum field theory. Physical Review D, 2001, 64, .	1.6	37
53	Semiclassical Cosmological Perturbations Generated During Inflation. International Journal of Theoretical Physics, 2000, 39, 1831-1839.	0.5	34
54	Stochastic semiclassical fluctuations in Minkowski spacetime. Physical Review D, 2000, 61, .	1.6	73

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55	Stochastic semiclassical gravity. <i>Physical Review D</i> , 1999, 60, .	1.6	89
56	Mode decomposition and renormalization in semiclassical gravity. <i>Physical Review D</i> , 1999, 60, .	1.6	37
57	On the semiclassical Einstein-Langevin equation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 465, 113-118.	1.5	62
58	Spacelike Fluctuations of the Stress Tensor for de Sitter Vacuum. <i>International Journal of Theoretical Physics</i> , 1999, 38, 3123-3133.	0.5	45
59	An Effective Stochastic Semiclassical Theory for the Gravitational Field. <i>International Journal of Theoretical Physics</i> , 1999, 38, 3049-3089.	0.5	39
60	Noise induced transitions in semiclassical cosmology. <i>Physical Review D</i> , 1999, 59, .	1.6	20
61	Stochastic semiclassical cosmological models. <i>Physical Review D</i> , 1997, 56, 2163-2172.	1.6	76
62	Quantum fields interacting with colliding plane waves: the stress-energy tensor and backreaction. <i>Nuclear Physics B</i> , 1997, 484, 435-475.	0.9	7
63	Back-reaction equations for isotropic cosmologies when nonconformal particles are created. <i>International Journal of Theoretical Physics</i> , 1997, 36, 2525-2543.	0.5	35
64	Stochastic semiclassical equations for weakly inhomogeneous cosmologies. <i>Physical Review D</i> , 1996, 53, 1927-1937.	1.6	102
65	Semiclassical back reaction in the formation of a straight cosmic string. <i>Physical Review D</i> , 1995, 52, 4319-4336.	1.6	28
66	Particle creation in a colliding plane wave spacetime: Wave packet quantization. <i>Physical Review D</i> , 1994, 50, 2631-2644.	1.6	8
67	Semiclassical equations for weakly inhomogeneous cosmologies. <i>Physical Review D</i> , 1994, 49, 1861-1880.	1.6	108
68	The quantum dimension of space-time. <i>Chaos, Solitons and Fractals</i> , 1994, 4, 411-414.	2.5	2
69	Quantum properties of the polytopic action in some simple geometries. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 304, 225-234.	1.5	3
70	Soliton solutions in spacetimes with two spacelike killing fields. <i>Physics Reports</i> , 1993, 229, 1-80.	10.3	69
71	Quantum fields interacting with colliding plane waves: particle creation. <i>Nuclear Physics B</i> , 1993, 403, 770-808.	0.9	16
72	Gravitational particle production by cosmic topological defects. , 1993, , 187-215.		0

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73	GRAVITATIONAL PARTICLE PRODUCTION BY COSMIC TEXTURES. <i>Modern Physics Letters A</i> , 1992, 07, 181-185.	0.5	1
74	Production of spin- $\frac{1}{2}$ particles in inhomogeneous cosmologies. <i>Physical Review D</i> , 1992, 45, 4428-4438.	1.6	32
75	A new action for the gravitational interaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 289, 51-55.	1.5	6
76	Quantum metric spaces as a model for pregeometry. <i>Physical Review D</i> , 1992, 45, 2033-2043.	1.6	10
77	Inhomogeneous Cosmologies with Shock Waves. <i>Astrophysical Journal</i> , 1992, 397, 390.	1.6	6
78	Scattering of quantum particles by gravitational plane waves. <i>Physical Review D</i> , 1991, 43, 391-401.	1.6	78
79	Reheating in inflationary cosmologies: Geometric coupling of the "inflaton" to quantum fields. <i>Physical Review D</i> , 1991, 43, 1032-1037.	1.6	6
80	Gravitational particle production in the formation of global monopoles and domain walls. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 246, 371-376.	1.5	4
81	Particle production in inhomogeneous cosmologies. <i>Physical Review D</i> , 1990, 41, 1022-1033.	1.6	46
82	Gravitational particle production by cosmic strings. <i>Nuclear Physics B</i> , 1990, 339, 560-576.	0.9	15
83	Particle creation due to cosmological contraction of extra dimensions. <i>Physical Review D</i> , 1989, 39, 1072-1083.	1.6	29
84	A family of inhomogeneous cosmological Einstein-Rosen metrics. <i>Journal of Mathematical Physics</i> , 1989, 30, 442-445.	0.5	1
85	Cosmic walls and axially symmetric $\tilde{f}$ models. <i>Classical and Quantum Gravity</i> , 1989, 6, 705-716.	1.5	6
86	Generalised soliton solutions of the Weyl class. <i>Classical and Quantum Gravity</i> , 1989, 6, 845-856.	1.5	7
87	Gravitational particle production during cosmic string formation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 232, 299-301.	1.5	6
88	Testing the quality factor with some approximate solutions to Einstein's equations. <i>General Relativity and Gravitation</i> , 1988, 20, 1249-1262.	0.7	1
89	Cosmic strings in extra dimensions. <i>Physical Review D</i> , 1988, 37, 2333-2336.	1.6	5
90	Gravitational Field of Superconducting Cosmic Strings. <i>Physical Review Letters</i> , 1988, 60, 2228-2228.	2.9	4

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91	Particle and string fluid interpretation for the scalar sector of Kaluza-Klein theories. <i>Physical Review D</i> , 1987, 36, 2981-2985.	1.6	2
92	Cosmic strings and Einstein-Rosen soliton waves. <i>Physical Review D</i> , 1987, 36, 2250-2258.	1.6	32
93	Gravitational wave pulse and soliton wave collision. <i>Physical Review D</i> , 1987, 36, 2259-2266.	1.6	6
94	Anisotropic fluid with $SU(2)$ -type structure in general relativity: A model of localized matter. <i>Journal of Mathematical Physics</i> , 1987, 28, 2431-2436.	0.5	8
95	Cosmological Einstein-Rosen metrics and generalised soliton solutions. <i>Classical and Quantum Gravity</i> , 1987, 4, L7-L11.	1.5	5
96	Casimir force between a plate and a straight line. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 195, 240-244.	1.5	1
97	Einstein-Rosen metrics generated by the inverse scattering transform. <i>General Relativity and Gravitation</i> , 1986, 18, 1141-1158.	0.7	7
98	On a generalized soliton solution as an inhomogeneous cosmological model. <i>General Relativity and Gravitation</i> , 1986, 18, 1045-1054.	0.7	6
99	Generation of gravitational waves in vacuum FRW models. <i>Classical and Quantum Gravity</i> , 1986, 3, 1235-1245.	1.5	4
100	Radiative isotropic cosmologies with extra dimensions. <i>Physical Review D</i> , 1986, 34, 1202-1204.	1.6	27
101	Finite perturbations on Friedmann-Robertson-Walker models. <i>Astrophysical Journal</i> , 1986, 306, 401.	1.6	21
102	Multisoliton solutions to Einstein's equations. <i>Physical Review D</i> , 1985, 31, 251-257.	1.6	27
103	Soliton solutions and cosmological gravitational waves. <i>Physical Review D</i> , 1983, 28, 2995-3006.	1.6	55
104	Classical cross sections for relativistic spinning particles. <i>Physical Review D</i> , 1983, 28, 317-324.	1.6	1
105	Interaction among systems of finite size in predictive relativistic mechanics. III. Short-range interaction and second-order terms. <i>Physical Review D</i> , 1983, 28, 325-333.	1.6	1
106	Soliton Collision in General Relativity. <i>Physical Review Letters</i> , 1983, 51, 1313-1315.	2.9	37
107	Stationary axisymmetric one-soliton solutions of the Einstein equations. <i>Journal of Physics A</i> , 1982, 15, 1261-1270.	1.6	14
108	Interaction among systems of finite size in predictive relativistic mechanics. II. Electromagnetic and gravitational interactions. <i>Physical Review D</i> , 1981, 24, 3103-3112.	1.6	4

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109	Interaction among systems of finite size in predictive relativistic mechanics. I. General framework. Physical Review D, 1981, 24, 3094-3102.	1.6	5
110	Approximate Poincare invariance of the post-Newtonian metric tensor and gauge conditions. Journal of Physics A, 1980, 13, 3011-3021.	1.6	0