

Parampreet Singh

List of Publications by Year in descending order

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103
papers

7,643
citations

76326

40
h-index

49909

87
g-index

104
all docs

104
docs citations

104
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum nature of the big bang: Improved dynamics. Physical Review D, 2006, 74, .	4.7	845
2	Loop quantum cosmology: a status report. Classical and Quantum Gravity, 2011, 28, 213001.	4.0	826
3	Quantum Nature of the Big Bang. Physical Review Letters, 2006, 96, 141301.	7.8	576
4	Quantum nature of the big bang: An analytical and numerical investigation. Physical Review D, 2006, 73, .	4.7	475
5	Cosmological dynamics of a phantom field. Physical Review D, 2003, 68, .	4.7	429
6	Robustness of key features of loop quantum cosmology. Physical Review D, 2008, 77, .	4.7	341
7	Loop quantum cosmology of $k=1$ FRW models. Physical Review D, 2007, 75, .	4.7	277
8	Nonsingular bouncing universes in loop quantum cosmology. Physical Review D, 2006, 74, .	4.7	168
9	Are loop quantum cosmos never singular?. Classical and Quantum Gravity, 2009, 26, 125005.	4.0	163
10	Quantum Transfiguration of Kruskal Black Holes. Physical Review Letters, 2018, 121, 241301.	7.8	148
11	Avoidance of future singularities in loop quantum cosmology. Physical Review D, 2006, 74, .	4.7	130
12	Quantum extension of the Kruskal spacetime. Physical Review D, 2018, 98, .	4.7	129
13	Loop cosmological dynamics and dualities with Randall-Sundrum braneworlds. Physical Review D, 2006, 73, .	4.7	118
14	Loop quantization of the Schwarzschild interior revisited. Classical and Quantum Gravity, 2016, 33, 055006.	4.0	111
15	Is loop quantization in cosmology unique?. Physical Review D, 2008, 78, .	4.7	109
16	Big crunch avoidance in $k=1$ semiclassical loop quantum cosmology. Physical Review D, 2004, 69, .	4.7	107
17	Black Hole Mass Threshold from Nonsingular Quantum Gravitational Collapse. Physical Review Letters, 2005, 95, 091302.	7.8	104
18	Loop quantum gravity effects on inflation and the CMB. Classical and Quantum Gravity, 2004, 21, 5767-5775.	4.0	102

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19	Semiclassical states, effective dynamics, and classical emergence in loop quantum cosmology. <i>Physical Review D</i> , 2005, 72, .	4.7	98
20	Covariant effective action for loop quantum cosmology À la Palatini. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 030-030.	5.4	97
21	Geometric perspective on singularity resolution and uniqueness in loop quantum cosmology. <i>Physical Review D</i> , 2009, 80, .	4.7	97
22	Quantum Evaporation of a Naked Singularity. <i>Physical Review Letters</i> , 2006, 96, 031302.	7.8	94
23	From black holes to white holes: a quantum gravitational, symmetric bounce. <i>Classical and Quantum Gravity</i> , 2017, 34, 225011.	4.0	92
24	Quantum Bounce and Cosmic Recall. <i>Physical Review Letters</i> , 2008, 100, 161302.	7.8	78
25	Curvature invariants, geodesics, and the strength of singularities in Bianchi-I loop quantum cosmology. <i>Physical Review D</i> , 2012, 85, .	4.7	78
26	Exotic singularities and spatially curved loop quantum cosmology. <i>Physical Review D</i> , 2011, 83, .	4.7	75
27	Numerical simulations of a loop quantum cosmos: robustness of the quantum bounce and the validity of effective dynamics. <i>Classical and Quantum Gravity</i> , 2014, 31, 105015.	4.0	74
28	Loop quantum gravity and the cyclic universe. <i>Physical Review D</i> , 2004, 70, .	4.7	67
29	Inflationary cosmology and quantization ambiguities in semiclassical loop quantum gravity. <i>Physical Review D</i> , 2004, 70, .	4.7	59
30	Contrasting features of anisotropic loop quantum cosmologies: The role of spatial curvature. <i>Physical Review D</i> , 2012, 85, .	4.7	57
31	Hamiltonian cosmological perturbation theory with loop quantum gravity corrections. <i>Physical Review D</i> , 2006, 74, .	4.7	56
32	Quantization ambiguities and bounds on geometric scalars in anisotropic loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2014, 31, 035010.	4.0	56
33	Quantum gravitational Kasner transitions in Bianchi-I spacetime. <i>Physical Review D</i> , 2012, 86, .	4.7	55
34	Effective state metamorphosis in semi-classical loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2005, 22, 4203-4216.	4.0	54
35	Towards cosmological dynamics from loop quantum gravity. <i>Physical Review D</i> , 2018, 97, .	4.7	53
36	Numerical evolution of squeezed and non-Gaussian states in loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2014, 31, 165006.	4.0	48

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37	Numerical simulations of loop quantum Bianchi-I spacetimes. <i>Classical and Quantum Gravity</i> , 2017, 34, 094004.	4.0	47
38	Formation and Evolution of Structure in Loop Cosmology. <i>Physical Review Letters</i> , 2007, 98, 031301.	7.8	46
39	Emergence of the product of constant curvature spaces in loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2015, 32, 185006.	4.0	43
40	Thermal fluctuations in loop cosmology. <i>Physical Review D</i> , 2007, 76, .	4.7	41
41	Qualitative dynamics and inflationary attractors in loop cosmology. <i>Physical Review D</i> , 2018, 98, .	4.7	41
42	Loop Quantum Cosmology. <i>International Journal of Population Studies</i> , 2017, , 183-240.	0.1	39
43	Kantowskiâ€Sachs spacetime in loop quantum cosmology: bounds on expansion and shear scalars and the viability of quantization prescriptions. <i>Classical and Quantum Gravity</i> , 2015, 32, 015009.	4.0	37
44	Nonsingular ekpyrotic/cyclic model in loop quantum cosmology. <i>Physical Review D</i> , 2009, 80, .	4.7	36
45	Numerical loop quantum cosmology: an overview. <i>Classical and Quantum Gravity</i> , 2012, 29, 244002.	4.0	35
46	Coordinate time dependence in quantum gravity. <i>Physical Review D</i> , 2004, 70, .	4.7	33
47	Consistent probabilities in Wheeler-DeWitt quantum cosmology. <i>Physical Review D</i> , 2010, 82, .	4.7	33
48	Geodesic completeness and the lack of strong singularities in effective loop quantum Kantowskiâ€Sachs spacetime. <i>Classical and Quantum Gravity</i> , 2016, 33, 245019.	4.0	33
49	A quantum gravitational inflationary scenario in Bianchi-I spacetime. <i>Classical and Quantum Gravity</i> , 2013, 30, 145013.	4.0	30
50	Can brane cosmology with a vanishing Λ explain the observations?. <i>Classical and Quantum Gravity</i> , 2003, 20, 2033-2044.	4.0	29
51	Nonsingular power-law and assisted inflation in loop quantum cosmology. <i>Physical Review D</i> , 2012, 85, .	4.7	27
52	Glimpses of Space-Time Beyond the Singularities Using Supercomputers. <i>Computing in Science and Engineering</i> , 2018, 20, 26-38.	1.2	27
53	Genericness of pre-inflationary dynamics and probability of the desired slow-roll inflation in modified loop quantum cosmologies. <i>Physical Review D</i> , 2019, 100, .	4.7	27
54	Understanding big bang in loop quantum cosmology: Recent advances. <i>Journal of Physics: Conference Series</i> , 2008, 140, 012005.	0.4	25

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55	Consistent probabilities in loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2013, 30, 205008.	4.0	25
56	Resolution of strong singularities and geodesic completeness in loop quantum Bianchi-II spacetimes. <i>Classical and Quantum Gravity</i> , 2017, 34, 235006.	4.0	24
57	von-Neumann stability and singularity resolution in loop quantized Schwarzschild black hole. <i>Classical and Quantum Gravity</i> , 2018, 35, 045007.	4.0	23
58	Gauge invariant variables for cosmological perturbation theory using geometrical clocks. <i>Classical and Quantum Gravity</i> , 2018, 35, 155012.	4.0	23
59	GRAVITATIONALLY INDUCED NEUTRINO ASYMMETRY. <i>Modern Physics Letters A</i> , 2003, 18, 779-785.	1.2	22
60	Generic absence of strong singularities in loop quantum Bianchi-IX spacetimes. <i>Classical and Quantum Gravity</i> , 2018, 35, 065014.	4.0	22
61	Chimera: a hybrid approach to numerical loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2014, 31, 025013.	4.0	21
62	Graceful exit via polymerization of pre-big-bang cosmology. <i>Physical Review D</i> , 2007, 76, .	4.7	19
63	Primordial scalar power spectrum from the hybrid approach in loop cosmologies. <i>Physical Review D</i> , 2020, 102, .	4.7	19
64	Consistent Histories in Quantum Cosmology. <i>Foundations of Physics</i> , 2011, 41, 371-379.	1.3	18
65	On the relationship between modifications to the Raychaudhuri equation and the canonical Hamiltonian structures. <i>Classical and Quantum Gravity</i> , 2016, 33, 125001.	4.0	18
66	Nonsingular quantum gravitational dynamics of an Lemaître-Tolman-Bondi dust shell model: The role of quantization prescriptions. <i>Physical Review D</i> , 2021, 104, .	4.7	18
67	Matter-antimatter asymmetry generated by loop quantum gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 565, 27-32.	4.1	17
68	Mukhanov-Sasaki equation in a manifestly gauge-invariant linearized cosmological perturbation theory with dust reference fields. <i>Physical Review D</i> , 2020, 102, .	4.7	17
69	Primordial power spectrum from the dressed metric approach in loop cosmologies. <i>Physical Review D</i> , 2020, 101, .	4.7	17
70	Implications of quantum ambiguities in $k=1$ loop quantum cosmology: Distinct quantum turnarounds and the super-Planckian regime. <i>Physical Review D</i> , 2017, 95, .	4.7	16
71	Nonsingular AdS-dS transitions in a landscape scenario. <i>Physical Review D</i> , 2014, 89, .	4.7	15
72	Is classical flat Kasner spacetime flat in quantum gravity?. <i>International Journal of Modern Physics D</i> , 2016, 25, 1642001.	2.1	15

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73	Generic absence of strong singularities and geodesic completeness in modified loop quantum cosmologies. <i>Classical and Quantum Gravity</i> , 2019, 36, 105014.	4.0	15
74	New loop quantum cosmology modifications from gauge-covariant fluxes. <i>Physical Review D</i> , 2019, 100, .	4.7	15
75	Towards a reduced phase space quantization in loop quantum cosmology with an inflationary potential. <i>Physical Review D</i> , 2020, 102, .	4.7	14
76	von Neumann stability of modified loop quantum cosmologies. <i>Classical and Quantum Gravity</i> , 2019, 36, 105010.	4.0	12
77	Corichi and Singh Reply:. <i>Physical Review Letters</i> , 2008, 101, .	7.8	11
78	Phenomenological Implications of Modified Loop Cosmologies: An Overview. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	11
79	Dynamics of Dirac observables in canonical cosmological perturbation theory. <i>Classical and Quantum Gravity</i> , 2019, 36, 085009.	4.0	10
80	Action principle formulation for the motion of extended bodies in general relativity. <i>Physical Review D</i> , 2003, 68, .	4.7	9
81	ACTION BASED APPROACH TO THE DYNAMICS OF EXTENDED BODIES IN GENERAL RELATIVITY. <i>International Journal of Modern Physics D</i> , 2003, 12, 1651-1655.	2.1	9
82	Some physical implications of regularization ambiguities in SU(2) gauge-invariant loop quantum cosmology. <i>Physical Review D</i> , 2019, 100, .	4.7	9
83	Quantum gravitational onset of Starobinsky inflation in a closed universe. <i>Physical Review D</i> , 2021, 103, .	4.7	9
84	LOCALIZATION OF GRAVITY IN BRANE WORLD COSMOLOGIES. <i>Modern Physics Letters A</i> , 2003, 18, 983-992.	1.2	8
85	Bianchi-I spacetimes in loop quantum cosmology: physics of singularity resolution. <i>Journal of Physics: Conference Series</i> , 2012, 360, 012008.	0.4	8
86	Gauge-invariant bounce from loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2020, 37, 085015.	4.0	8
87	Does the Loop Quantum \hat{H}_0 Scheme Permit Black Hole Formation?. <i>Universe</i> , 2021, 7, 406.	2.5	8
88	Role of dissipative effects in the quantum gravitational onset of warm Starobinsky inflation in a closed universe. <i>Physical Review D</i> , 2021, 104, .	4.7	8
89	Non-conformally flat bulk spacetime and the 3-brane world. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 511, 291-294.	4.1	7
90	Hysteresis and beating phenomena in loop quantum cosmology. <i>Physical Review D</i> , 2020, 101, .	4.7	7

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91	THE FIELD EQUATION FROM NEWTON'S LAW OF MOTION AND THE ABSENCE OF MAGNETIC MONOPOLE. International Journal of Modern Physics A, 2001, 16, 1237-1247.	1.5	6
92	Primordial power spectrum from a matter-ekpyrotic bounce scenario in loop quantum cosmology. Physical Review D, 2021, 103, .	4.7	6
93	Neutrino-antineutrino asymmetry around rotating black holes. Pramana - Journal of Physics, 2004, 62, 775-778.	1.8	5
94	FIELD THEORIES FROM THE RELATIVISTIC LAW OF MOTION. Modern Physics Letters A, 2001, 16, 83-90.	1.2	4
95	Relating dust reference models to conventional systems in manifestly gauge invariant perturbation theory. Physical Review D, 2021, 104, .	4.7	4
96	Consistent gauge-fixing conditions in polymerized gravitational systems. Physical Review D, 2022, 105, .	4.7	4
97	A Consistent Histories Formulation of Wheeler-DeWitt Quantum Cosmology. AIP Conference Proceedings, 2010, , .	0.4	3
98	Loop quantum gravity effects might restrict a cyclic evolution. Physical Review D, 2022, 105, .	4.7	3
99	QUANTUM GEOMETRY AND THE BIG BANG. International Journal of Modern Physics D, 2006, 15, 1707-1723.	2.1	2
100	Consistent probabilities in sLQC. Journal of Physics: Conference Series, 2012, 360, 012028.	0.4	2
101	A Glance at the Earliest Universe. Physics Magazine, 2012, 5, .	0.1	1
102	Cosmological dynamics in spin-foam loop quantum cosmology: challenges and prospects. Classical and Quantum Gravity, 2017, 34, 074001.	4.0	1
103	LOOP QUANTUM GRAVITY: COSMOLOGY AND BLACK HOLES AT THE 13TH MARCEL GROSSMANN MEETING. , 2015, , .		0