

# Bikash Sinha

## List of Publications by Year in descending order

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131  
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2,170  
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236925

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times ranked

2573  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hawking Radiation from Relics of the QCD Phase Transition—Strange Quark Nuggets, Primordial Black Holes, and White Holes. <i>Physics of Particles and Nuclei</i> , 2022, 53, 159-166.	0.7	0
2	Hawking radiation from strange quark nuggets, relics of the QCD phase transition. <i>Physical Review D</i> , 2020, 101, .	4.7	1
3	Hawking Radiation from the Relics of the Cosmic Quark Hadron Phase Transition. <i>Springer Proceedings in Physics</i> , 2020, , 409-413.	0.2	0
4	The Cosmic Quarks. <i>Nuclear Physics A</i> , 2019, 982, 235-238.	1.5	5
5	Estimation of underground water radon danger in Bakreswar and Tantloi Geothermal Region, India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 273-283.	1.5	23
6	Detection of earthquake induced radon precursors by Hilbert Huang Transform. <i>Journal of Applied Geophysics</i> , 2016, 133, 123-131.	2.1	23
7	Cold dark matter and the cosmic phase transition. <i>Journal of Physics: Conference Series</i> , 2016, 668, 012028.	0.4	3
8	Glueballs amass at the RHIC and LHC! The early quarkless first-order phase transition at $T = 270$ MeV from pure Yang-Mills glue plasma to Hagedorn glueball states. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 015105.	3.6	22
9	The essence of multifractal detrended fluctuation technique to explore the dynamics of soil radon precursor for earthquakes. <i>Natural Hazards</i> , 2015, 78, 855-877.	3.4	13
10	The microsecond old universe—Relics of QCD phase transition. <i>International Journal of Modern Physics A</i> , 2014, 29, 1430024.	1.5	7
11	Network of seismo-geochemical monitoring observatories for earthquake prediction research in India. <i>Acta Geophysica</i> , 2013, 61, 1000-1025.	2.0	17
12	Electromagnetic signals from Au+Au collisions at RHIC energy,  overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbody="http://www.elsevier.com/xml/common/table/dtd" xmlns:tr="http://www.elsevier.com/xml/common/table/dtd" xmlns:td="http://www.elsevier.com/xml/common/table/dtd" style="display: inline-block; vertical-align: middle;"/> $\sqrt{s} = 0.9$ and 7 TeV with the ALICE experiment at the LHC. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.1	4
13	Lepton pair production from viscous QGP. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 045101.	3.6	1
14	The Mini Bang and the Big Bang: From Collider to Cosmology. , 2013, , 261-273.		0
15	Muon pairs from In + In collision at energies available at the CERN Super Proton Synchrotron. <i>Physical Review C</i> , 2012, 85, .	2.9	8
16	Underlying Event measurements in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the ALICE experiment at the LHC. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	31
17	Measurement of prompt $J/\psi$ and beauty hadron production cross sections at mid-rapidity in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	54
18	A geochemical approach to earthquake reconnaissance at the Baratang mud volcano, Andaman and Nicobar Islands. <i>Journal of Asian Earth Sciences</i> , 2012, 46, 52-60.	2.3	25

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19	Long range gas-geochemical anomalies of a remote earthquake recorded simultaneously at distant monitoring stations in India. <i>Geochemical Journal</i> , 2011, 45, 137-156.	1.0	29
20	FAIR@Germany. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 290, 5-10.	1.5	0
21	Radon activity measurements around Bakreswar thermal springs. <i>Radiation Measurements</i> , 2010, 45, 143-146.	1.4	52
22	Nuclear suppression at low energy in relativistic heavy ion collisions. <i>Physical Review C</i> , 2010, 81, .	2.9	12
23	Electromagnetic Probes : A Chronometer of Heavy Ion Collision. , 2010, , .		0
24	Nonlinear response of radon and its progeny in spring emission. <i>Applied Radiation and Isotopes</i> , 2009, 67, 313-318.	1.5	15
25	Measuring initial temperature through a photon to dilepton ratio in heavy-ion collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 104161.	3.6	9
26	Thermal photon to dilepton ratio in high energy nuclear collisions. <i>Physical Review C</i> , 2008, 78, .	2.9	7
27	QCD PHASE TRANSITION "THE MINI BANG AND THE BIG BANG". <i>International Journal of Modern Physics E</i> , 2007, 16, 829-840.	1.0	0
28	Thermal radiation from Au+Au collisions at GeV energy. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 871-882.	3.6	21
29	Explosive helium burst in thermal spring emanations. <i>Applied Radiation and Isotopes</i> , 2006, 64, 144-148.	1.5	14
30	Continuous monitoring of <sup>222</sup> Rn and its progeny at a remote station for seismic hazard surveillance. <i>Radiation Measurements</i> , 2006, 41, 634-637.	1.4	22
31	Cosmological dark energy from the cosmic QCD phase transition and colour entanglement. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 611, 27-33.	4.1	20
32	Strangeness, cosmological cold dark matter and dark energy. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S857-S862.	3.6	2
33	Stopping power of hot QCD plasma. <i>Physical Review D</i> , 2005, 71, .	4.7	68
34	Lepton interferometry in relativistic heavy ion collisions: A case study. <i>Physical Review C</i> , 2004, 70, .	2.9	1
35	Quantum chromodynamics phase transition in the early Universe and quark nuggets. <i>Pramana - Journal of Physics</i> , 2003, 60, 909-919.	1.8	7
36	Development of a honeycomb gas proportional counter array for photon multiplicity measurements in high multiplicity environment. <i>Pramana - Journal of Physics</i> , 2003, 60, 1023-1027.	1.8	0

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37	Relics of cosmic quark-hadron phase transition and massive compact halo objects. Nuclear Physics A, 2003, 715, 827c-830c.	1.5	0
38	Some aspects of strangeness in astrophysics and cosmology. Nuclear Physics A, 2003, 721, C1028-C1031.	1.5	0
39	Spectral redshift versus broadening from photon and dilepton spectra. Physical Review C, 2003, 67, .	2.9	8
40	Photon interferometry and size of the hot zone in relativistic heavy ion collisions. Physical Review C, 2003, 67, .	2.9	18
41	Space-time evolution of ultra-relativistic heavy ion collisions and hadronic spectra. Nuclear Physics A, 2002, 709, 440-450.	1.5	7
42	Photons from Pb-Pb collisions at ultrarelativistic energies. Physical Review C, 2001, 63, .	2.9	62
43	Radiation of single photons from Pb+Pb collisions at relativistic energies and the quark-hadron phase transition. Physical Review C, 2001, 64, .	2.9	58
44	Relics of the Cosmological Quark-Hadron Phase Transition. , 2001, , .		0
45	Thermal Photons and Lepton Pairs from Quark Gluon Plasma and Hot Hadronic Matter. Annals of Physics, 2000, 286, 159-248.	2.8	118
46	Electromagnetic signals of quark gluon plasma. Pramana - Journal of Physics, 2000, 54, 573-587.	1.8	0
47	Relics of the cosmological QCD phase transition. Physical Review D, 2000, 61, .	4.7	37
48	Quark Nuggets as Baryonic Dark Matter. Astrophysical Journal, 1999, 513, 572-575.	4.5	25
49	$\eta$ meson as a chronometer and thermometer in hot and dense hadronic matter. Physical Review C, 1999, 59, 2778-2781.	2.9	6
50	Unstable particles in matter at a finite temperature: The $\eta$ and $\eta'$ mesons. Physical Review C, 1999, 59, 905-913.	2.9	14
51	Photons from Pb+Pb and S+Au collisions at ultrarelativistic energies. Physical Review C, 1999, 60, .	2.9	8
52	Electromagnetic radiation from hot and dense hadronic matter. Nuclear Physics A, 1999, 653, 277-300.	1.5	33
53	Cosmological QCD phase transition and dark matter. Nuclear Physics A, 1999, 661, 629-632.	1.5	13
54	Fractal pattern in hydrothermal emission. Physica A: Statistical Mechanics and Its Applications, 1999, 262, 9-15.	2.6	4

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55	Effect of colour singletness of quark-gluon plasma in quark-hadron phase transition. European Physical Journal C, 1998, 5, 711-718.	3.9	9
56	Photons from hadronic matter at finite temperature. Nuclear Physics A, 1998, 634, 206-230.	1.5	50
57	Closing the universe with primordial quark nuggets. Nuclear Physics A, 1998, 638, 523c-526c.	1.5	2
58	Effect of colour singletness of quark-gluon plasma in quark-hadron phase transition. European Physical Journal C, 1998, 5, 711.	3.9	4
59	QCD Phase Transition in the Laboratory and in the Early Universe. , 1998, , .		0
60	Dissipative effects in photon diagnostics of quark - gluon plasma. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 469-477.	3.6	6
61	Soft electromagnetic radiations from relativistic heavy ion collisions. Physical Review C, 1997, 55, 1467-1476.	2.9	6
62	Finite Temperature Effects on Electromagnetic Probes of Quark&quot;Gluon Plasma. International Journal of Modern Physics A, 1997, 12, 5639-5650.	1.5	3
63	Thermal Masses and Equilibrium Rates in the Quark Gluon Phase. International Journal of Modern Physics A, 1997, 12, 5151-5160.	1.5	6
64	Dilepton yield in heavy-ion collisions with Bose enhancement of decay widths. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 396, 264-268.	4.1	0
65	Large mass diphotons from relativistic heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 402, 13-17.	4.1	1
66	Title is missing!. Astrophysics and Space Science, 1997, 250, 313-326.	1.4	9
67	Quark-gluon plasma diagnostics in a successive equilibrium scenario. Nuclear Physics A, 1997, 624, 687-705.	1.5	22
68	Electromagnetic probes of quark gluon plasma. Physics Reports, 1996, 273, 243-362.	25.6	115
69	A scheme to identify collective transverse flow in relativistic heavy ion collisions at CERN SPS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 379, 54-59.	4.1	3
70	Photon pairs from relativistic heavy ion collisions and the quark hadron phase transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 21-25.	4.1	5
71	Excess production of low-mass lepton pairs in S+Au collisions at the CERN Super Proton Synchrotron and the quark-hadron phase transition. Nuclear Physics A, 1996, 610, 350-357.	1.5	4
72	Excess production of low-mass lepton pairs in S+Au collisions at the CERN Super Proton Synchrotron and the quark-hadron phase transition. Physical Review C, 1996, 53, R567-R571.	2.9	44

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73	Soft photons from relativistic heavy ion collisions. <i>Physical Review C</i> , 1996, 53, 2364-2370.	2.9	11
74	Effects of a sharp boundary on thermal photons from quark - gluon plasma. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1996, 22, 951-958.	3.6	5
75	Electromagnetic Probes of Quark Gluon Plasma. , 1996, , .		0
76	Heavy ion physics at the Cyclotron Centre, Calcutta. <i>Nuclear Physics A</i> , 1995, 583, 413-420.	1.5	0
77	Single photons from S + Au collisions at CERN Super Proton Synchrotron and quark-hadron phase transition. <i>Nuclear Physics A</i> , 1995, 590, 507-510.	1.5	4
78	Features of photons radiated off quarks escaping from a quark-gluon plasma. <i>Physical Review D</i> , 1995, 51, 4884-4890.	4.7	2
79	Rapidity distribution of photons emitted from a hadronizing quark-gluon plasma. <i>Physical Review C</i> , 1995, 51, 318-327.	2.9	6
80	Successive Equilibration in Quark-Gluon Plasma. <i>Physical Review Letters</i> , 1994, 73, 1895-1898.	7.8	54
81	Single Photons from S + Au Collisions at the CERN Super Proton Synchrotron and the Quark-Hadron Phase Transition. <i>Physical Review Letters</i> , 1994, 73, 2421-2424.	7.8	93
82	Mass and charge distribution in $^{232}\text{Th}(\alpha, f)$ reaction in the projectile energy range 28 to 72 MeV. <i>Zeitschrift für Physik A</i> , 1993, 345, 401-405.	0.9	3
83	Survivability of cosmological quark nuggets in the chromoelectric flux-tube fission model of baryon evaporation. <i>Physical Review D</i> , 1993, 48, 4630-4638.	4.7	33
84	Transverse flow effects on high-energy photons emitted by expanding quark-gluon plasma. <i>Physical Review D</i> , 1993, 48, 1117-1131.	4.7	62
85	High-energy photons from expanding quark-gluon plasma and hot hadronic matter. <i>Physical Review D</i> , 1992, 46, 3802-3806.	4.7	31
86	PRE-EQUILIBRIUM PRODUCTION OF PHOTONS AND LEPTONS IN RELATIVISTIC HEAVY-ION COLLISIONS. <i>Modern Physics Letters A</i> , 1992, 07, 927-935.	1.2	6
87	A COSMOLOGICAL LOWER LIMIT FOR QUARK COMPOSITENESS ENERGY SCALE. <i>Modern Physics Letters A</i> , 1992, 07, 2377-2381.	1.2	0
88	Photons and dileptons from an expanding quark-gluon plasma. <i>Nuclear Physics A</i> , 1992, 544, 493-496.	1.5	6
89	Rapidity distribution of secondaries in ultra-relativistic heavy ion collisions using Landau's hydrodynamic model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 296, 11-17.	4.1	10
90	Boost non-invariant hydrodynamics in ultrarelativistic heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 278, 225-230.	4.1	16

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91	Dynamical versus decay photons in A + A collisions at $\sqrt{s}=200$ A GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 276, 285-289.	4.1	31
92	Direct photons and photon pairs in equilibrium and pre-equilibrium scenarios. Nuclear Physics A, 1991, 525, 311-314.	1.5	0
93	Signals of quark-gluon plasma - dimuons and photons through a window of invariant mass filter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 261, 1-4.	4.1	10
94	DILEPTONS AND PHOTONS IN HIGH ENERGY HEAVY ION REACTIONS: A REVIEW. International Journal of Modern Physics A, 1991, 06, 517-558.	1.5	20
95	Signals of Quark-Gluon Plasma - Terrestrial and Cosmological. Physica Scripta, 1990, T32, 184-189.	2.5	0
96	Cosmic separation of phases, density inhomogeneities and primordial nucleosynthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 175-178.	4.1	7
97	Quark-gluon plasma diagnostics and $J/\psi$ suppression in nuclear collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 218, 413-416.	4.1	4
98	The changing scenario of the atomic nucleus from nucleons and mesons to quarks and gluons. Pramana - Journal of Physics, 1989, 32, 523-539.	1.8	0
99	Photon and dimuon pairs in an expanding quark-gluon plasma. Nuclear Physics A, 1988, 490, 733-744.	1.5	13
100	Changing structure functions and nuclear saturation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 208, 513-516.	4.1	1
101	ON THE NEUTRINO EMISSIVITY OF DEGENERATE STRANGE QUARK MATTER. Modern Physics Letters A, 1988, 03, 1385-1390.	1.2	8
102	Quark-gluon-plasma diagnostics: Measuring $R_{AA}$ ratio with dileptons. Physical Review Letters, 1987, 58, 101-103.	7.8	25
103	Quark-matter diagnostics - photons at high $\sqrt{s}$ window. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 197, 263-265.	4.1	5
104	Target dependence of production cross sections in high energy hadron-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 198, 543-546.	4.1	10
105	Thermometric signals of quark-gluon plasma. Nuclear Physics A, 1986, 459, 717-731.	1.5	12
106	A microscopic optical model analysis of heavy ion elastic scattering data using the realistic NN interaction. Nuclear Physics A, 1986, 455, 169-178.	1.5	38
107	An $\hat{H}$ -nucleus optical potential using a realistic effective interaction. Nuclear Physics A, 1985, 439, 415-426.	1.5	33
108	Realistic signatures of quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 160, 287-291.	4.1	4

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109	Realistic signatures of quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 157, 221-225.	4.1	11
110	Intrinsic density and energy dependence: Exchange effects in alpha-nucleus scattering. Physical Review C, 1984, 30, 1093-1095.	2.9	6
111	Strangeness in quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 135, 169-171.	4.1	2
112	The nuclear response and the imaginary potential for nucleus-nucleus collisions. Nuclear Physics A, 1983, 395, 263-273.	1.5	0
113	Mean Free Path of a Nucleon in Nucleus-Nucleus Collision. Physical Review Letters, 1983, 50, 91-94.	7.8	47
114	Simultaneous excitations in nucleus-nucleus interaction potential. Physical Review C, 1982, 25, 1534-1537.	2.9	0
115	The nucleus-nucleus proximity imaginary potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 110, 359-363.	4.1	3
116	The two-body dissipation in second-order perturbation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 99, 89-91.	4.1	7
117	Transition from Light to Heavy Ions. Physical Review Letters, 1980, 44, 1207-1210.	7.8	7
118	A microscopic nucleus-nucleus optical potential. Lecture Notes in Physics, 1979, , 372-383.	0.7	4
119	Second-Order Excitation in Nucleus-Nucleus Interaction Potential. Physical Review Letters, 1979, 42, 690-693.	7.8	11
120	The nucleus-nucleus interaction potential using density-dependent delta interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 81, 289-294.	4.1	50
121	The nuclear response function and dissipation in the Fermi-Gas model. Zeitschrift für Physik A, 1979, 290, 185-190.	1.4	3
122	Nuclear structure calculations using momentum-dependent delta interactions (MDD). Nuclear Physics A, 1978, 302, 237-256.	1.5	3
123	Nuclear friction and the imaginary part of the nucleus-nucleus interaction potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1977, 71, 243-246.	4.1	6
124	Hartree-Fock approximation and the folding model for the optical potential using modified delta interactions. Physical Review C, 1976, 14, 404-409.	2.9	1
125	Nucleus-nucleus optical potential. Physical Review C, 1975, 11, 1546-1556.	2.9	25
126	The optical potential and nuclear structure. Physics Reports, 1975, 20, 1-57.	25.6	146



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127	A microscopic optical potential for 3He. Nuclear Physics A, 1975, 241, 229-236.	1.5	8
128	Nucleus-Nucleus Optical Potential Using a Density-Dependent Two-Body Interaction. Physical Review Letters, 1974, 33, 600-602.	7.8	30
129	A three parameter nucleon-nucleus optical model on the energy shell. Nuclear Physics A, 1974, 226, 31-44.	1.5	14
130	Second-order nucleon-nucleus optical potential. Nuclear Physics A, 1973, 203, 473-480.	1.5	6
131	Underlying Event measurements in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV with the ALICE experiment at the LHC. , 0, .		1