

# Bikash Sinha

## List of Publications by Year in descending order

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131  
papers

2,170  
citations

236925

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42  
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132  
all docs

132  
docs citations

132  
times ranked

2573  
citing authors

#	ARTICLE	IF	CITATIONS
1	The optical potential and nuclear structure. Physics Reports, 1975, 20, 1-57.	25.6	146
2	Thermal Photons and Lepton Pairs from Quark Gluon Plasma and Hot Hadronic Matter. Annals of Physics, 2000, 286, 159-248.	2.8	118
3	Electromagnetic probes of quark gluon plasma. Physics Reports, 1996, 273, 243-362.	25.6	115
4	Single Photons from S + Au Collisions at the CERN Super Proton Synchrotron and the Quark-Hadron Phase Transition. Physical Review Letters, 1994, 73, 2421-2424.	7.8	93
5	Stopping power of hot QCD plasma. Physical Review D, 2005, 71, .	4.7	68
6	Transverse flow effects on high-energy photons emitted by expanding quark-gluon plasma. Physical Review D, 1993, 48, 1117-1131.	4.7	62
7	Photons from Pb-Pb collisions at ultrarelativistic energies. Physical Review C, 2001, 63, .	2.9	62
8	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
9	Successive Equilibration in Quark-Gluon Plasma. Physical Review Letters, 1994, 73, 1895-1898.	7.8	54
10	Measurement of prompt $J/\psi$ and beauty hadron production cross sections at mid-rapidity in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	54
11	Radon activity measurements around Bakreswar thermal springs. Radiation Measurements, 2010, 45, 143-146.	1.4	52
12	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
13	Photons from hadronic matter at finite temperature. Nuclear Physics A, 1998, 634, 206-230.	1.5	50
14	Mean Free Path of a Nucleon in Nucleus-Nucleus Collision. Physical Review Letters, 1983, 50, 91-94.	7.8	47
15	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
16	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
17	Relics of the cosmological QCD phase transition. Physical Review D, 2000, 61, .	4.7	37
18	An $\hat{1}\pm$ -nucleus optical potential using a realistic effective interaction. Nuclear Physics A, 1985, 439, 415-426.	1.5	33

#	ARTICLE	IF	CITATIONS
19	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
20	Electromagnetic radiation from hot and dense hadronic matter. <i>Nuclear Physics A</i> , 1999, 653, 277-300.	1.5	33
21	High-energy photons from expanding quark-gluon plasma and hot hadronic matter. <i>Physical Review D</i> , 1992, 46, 3802-3806.	4.7	31
22	Dynamical versus decay photons in A + A collisions at $\sqrt{s}=200$ A GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 276, 285-289.	4.1	31
23	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
24	Nucleus-Nucleus Optical Potential Using a Density-Dependent Two-Body Interaction. <i>Physical Review Letters</i> , 1974, 33, 600-602.	7.8	30
25	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
26	Nucleus-nucleus optical potential. <i>Physical Review C</i> , 1975, 11, 1546-1556.	2.9	25
27	Quark-gluon-plasma diagnostics: Measuring $\bar{c}/\bar{t}$ ratio with dileptons. <i>Physical Review Letters</i> , 1987, 58, 101-103.	7.8	25
28	Quark Nuggets as Baryonic Dark Matter. <i>Astrophysical Journal</i> , 1999, 513, 572-575.	4.5	25
29	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
30	Detection of earthquake induced radon precursors by Hilbert Huang Transform. <i>Journal of Applied Geophysics</i> , 2016, 133, 123-131.	2.1	23
31	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
32	Quark-gluon plasma diagnostics in a successive equilibrium scenario. <i>Nuclear Physics A</i> , 1997, 624, 687-705.	1.5	22
33	Continuous monitoring of $^{222}\text{Rn}$ and its progeny at a remote station for seismic hazard surveillance. <i>Radiation Measurements</i> , 2006, 41, 634-637.	1.4	22
34	Glueballs amass at the RHIC and LHC! The early quarkless first-order phase transition at $T_c = 270$ 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
35	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
36	DILEPTONS AND PHOTONS IN HIGH ENERGY HEAVY ION REACTIONS: A REVIEW. <i>International Journal of Modern Physics A</i> , 1991, 06, 517-558.	1.5	20

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37	Cosmological dark energy from the cosmic QCD phase transition and colour entanglement. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 611, 27-33.	4.1	20
38	Photon interferometry and size of the hot zone in relativistic heavy ion collisions. Physical Review C, 2003, 67, .	2.9	18
39	Network of seismo-geochemical monitoring observatories for earthquake prediction research in India. Acta Geophysica, 2013, 61, 1000-1025.	2.0	17
40	Boost non-invariant hydrodynamics in ultrarelativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 278, 225-230.	4.1	16
41	Nonlinear response of radon and its progeny in spring emission. Applied Radiation and Isotopes, 2009, 67, 313-318.	1.5	15
42	A three parameter nucleon-nucleus optical model on the energy shell. Nuclear Physics A, 1974, 226, 31-44.	1.5	14
43	Unstable particles in matter at a finite temperature: The $\bar{\Lambda}$ and $\bar{\Sigma}$ mesons. Physical Review C, 1999, 59, 905-913.	2.9	14
44	Explosive helium burst in thermal spring emanations. Applied Radiation and Isotopes, 2006, 64, 144-148.	1.5	14
45	Photon and dimuon pairs in an expanding quark-gluon plasma. Nuclear Physics A, 1988, 490, 733-744.	1.5	13
46	Cosmological QCD phase transition and dark matter. Nuclear Physics A, 1999, 661, 629-632.	1.5	13
47	The essence of multifractal detrended fluctuation technique to explore the dynamics of soil radon precursor for earthquakes. Natural Hazards, 2015, 78, 855-877.	3.4	13
48	Thermometric signals of quark-gluon plasma. Nuclear Physics A, 1986, 459, 717-731.	1.5	12
49	Nuclear suppression at low energy in relativistic heavy ion collisions. Physical Review C, 2010, 81, .	2.9	12
50	Second-Order Excitation in Nucleus-Nucleus Interaction Potential. Physical Review Letters, 1979, 42, 690-693.	7.8	11
51	Realistic signatures of quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 157, 221-225.	4.1	11
52	Soft photons from relativistic heavy ion collisions. Physical Review C, 1996, 53, 2364-2370.	2.9	11
53	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
54	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

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55	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
56	Title is missing!. <i>Astrophysics and Space Science</i> , 1997, 250, 313-326.	1.4	9
57	Effect of colour singletness of quark-gluon plasma in quark-hadron phase transition. <i>European Physical Journal C</i> , 1998, 5, 711-718.	3.9	9
58	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
59	A microscopic optical potential for $^3\text{He}$ . <i>Nuclear Physics A</i> , 1975, 241, 229-236.	1.5	8
60	ON THE NEUTRINO EMISSIVITY OF DEGENERATE STRANGE QUARK MATTER. <i>Modern Physics Letters A</i> , 1988, 03, 1385-1390.	1.2	8
61	Photons from Pb+Pb and S+Au collisions at ultrarelativistic energies. <i>Physical Review C</i> , 1999, 60, .	2.9	8
62	Spectral redshift versus broadening from photon and dilepton spectra. <i>Physical Review C</i> , 2003, 67, .	2.9	8
63	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
64	Transition from Light to Heavy Ions. <i>Physical Review Letters</i> , 1980, 44, 1207-1210.	7.8	7
65	The two-body dissipation in second-order perturbation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981, 99, 89-91.	4.1	7
66	Cosmic separation of phases, density inhomogeneities and primordial nucleosynthesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 240, 175-178.	4.1	7
67	Space-time evolution of ultra-relativistic heavy ion collisions and hadronic spectra. <i>Nuclear Physics A</i> , 2002, 709, 440-450.	1.5	7
68	Quantum chromodynamics phase transition in the early Universe and quark nuggets. <i>Pramana - Journal of Physics</i> , 2003, 60, 909-919.	1.8	7
69	Thermal photon to dilepton ratio in high energy nuclear collisions. <i>Physical Review C</i> , 2008, 78, .	2.9	7
70	The microsecond old universe " Relics of QCD phase transition. <i>International Journal of Modern Physics A</i> , 2014, 29, 1430024.	1.5	7
71	Second-order nucleon-nucleus optical potential. <i>Nuclear Physics A</i> , 1973, 203, 473-480.	1.5	6
72	Nuclear friction and the imaginary part of the nucleus-nucleus interaction potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1977, 71, 243-246.	4.1	6

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73	Intrinsic density and energy dependence: Exchange effects in alpha-nucleus scattering. Physical Review C, 1984, 30, 1093-1095.	2.9	6
74	PRE-EQUILIBRIUM PRODUCTION OF PHOTONS AND LEPTONS IN RELATIVISTIC HEAVY-ION COLLISIONS. Modern Physics Letters A, 1992, 07, 927-935.	1.2	6
75	Photons and dileptons from an expanding quark-gluon plasma. Nuclear Physics A, 1992, 544, 493-496.	1.5	6
76	Rapidity distribution of photons emitted from a hadronizing quark-gluon plasma. Physical Review C, 1995, 51, 318-327.	2.9	6
77	Dissipative effects in photon diagnostics of quark - gluon plasma. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 469-477.	3.6	6
78	Soft electromagnetic radiations from relativistic heavy ion collisions. Physical Review C, 1997, 55, 1467-1476.	2.9	6
79	Thermal Masses and Equilibrium Rates in the Quark Gluon Phase. International Journal of Modern Physics A, 1997, 12, 5151-5160.	1.5	6
80	$\eta$ meson as a chronometer and thermometer in hot and dense hadronic matter. Physical Review C, 1999, 59, 2778-2781.	2.9	6
81	Quark-matter diagnostics - photons at high $\sqrt{s_{NN}}$ window. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 197, 263-265.	4.1	5
82	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
83	Effects of a sharp boundary on thermal photons from quark - gluon plasma. Journal of Physics C: Nuclear and Particle Physics, 1996, 22, 951-958.	3.6	5
84	The Cosmic Quarks. Nuclear Physics A, 2019, 982, 235-238.	1.5	5
85	A microscopic nucleus-nucleus optical potential. Lecture Notes in Physics, 1979, , 372-383.	0.7	4
86	Realistic signatures of quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 160, 287-291.	4.1	4
87	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
88	Single photons from S + Au collisions at CERN Super Proton Synchrotron and quark-hadron phase transition. Nuclear Physics A, 1995, 590, 507-510.	1.5	4
89	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
90	Fractal pattern in hydrothermal emission. Physica A: Statistical Mechanics and Its Applications, 1999, 262, 9-15.	2.6	4

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91	Magnetic signals from Au+Au collisions at RHIC energy, $\langle \mathbf{r} \cdot \mathbf{p} \rangle$ correlation function. <i>Physical Review Letters</i> , 2004, 93, 152301.	4.1	4
92	Effect of colour singletness of quark-gluon plasma in quark-hadron phase transition. <i>European Physical Journal C</i> , 1998, 5, 711.	3.9	4
93	Nuclear structure calculations using momentum-dependent delta interactions (MDD). <i>Nuclear Physics A</i> , 1978, 302, 237-256.	1.5	3
94	The nuclear response function and dissipation in the Fermi-Gas model. <i>Zeitschrift für Physik A</i> , 1979, 290, 185-190.	1.4	3
95	The nucleus-nucleus proximity imaginary potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1982, 110, 359-363.	4.1	3
96	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
97	A scheme to identify collective transverse flow in relativistic heavy ion collisions at CERN SPS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 379, 54-59.	4.1	3
98	Finite Temperature Effects on Electromagnetic Probes of Quark-Gluon Plasma. <i>International Journal of Modern Physics A</i> , 1997, 12, 5639-5650.	1.5	3
99	Cold dark matter and the cosmic phase transition. <i>Journal of Physics: Conference Series</i> , 2016, 668, 012028.	0.4	3
100	Strangeness in quark-gluon plasma. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 135, 169-171.	4.1	2
101	Features of photons radiated off quarks escaping from a quark-gluon plasma. <i>Physical Review D</i> , 1995, 51, 4884-4890.	4.7	2
102	Closing the universe with primordial quark nuggets. <i>Nuclear Physics A</i> , 1998, 638, 523c-526c.	1.5	2
103	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
104	Hartree-Fock approximation and the folding model for the optical potential using modified delta interactions. <i>Physical Review C</i> , 1976, 14, 404-409.	2.9	1
105	Changing structure functions and nuclear saturation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 208, 513-516.	4.1	1
106	Large mass diphotons from relativistic heavy ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 402, 13-17.	4.1	1
107	Lepton interferometry in relativistic heavy ion collisions: A case study. <i>Physical Review C</i> , 2004, 70, .	2.9	1
108	Lepton pair production from viscous QGP. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 045101.	3.6	1

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109	Hawking radiation from strange quark nuggets, relics of the QCD phase transition. Physical Review D, 2020, 101, .	4.7	1
110	Underlying Event measurements in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV with the ALICE experiment at the LHC. , 0, .		1
111	Simultaneous excitations in nucleus-nucleus interaction potential. Physical Review C, 1982, 25, 1534-1537.	2.9	0
112	The nuclear response and the imaginary potential for nucleus-nucleus collisions. Nuclear Physics A, 1983, 395, 263-273.	1.5	0
113	The changing scenario of the atomic nucleusâ€”from nucleons and mesons to quarks and gluons. Pramana - Journal of Physics, 1989, 32, 523-539.	1.8	0
114	Signals of Quark-Gluon Plasma - Terrestrial and Cosmological. Physica Scripta, 1990, T32, 184-189.	2.5	0
115	Direct photons and photon pairs in equilibrium and pre-equilibrium scenarios. Nuclear Physics A, 1991, 525, 311-314.	1.5	0
116	A COSMOLOGICAL LOWER LIMIT FOR QUARK COMPOSITENESS ENERGY SCALE. Modern Physics Letters A, 1992, 07, 2377-2381.	1.2	0
117	Heavy ion physics at the Cyclotron Centre, Calcutta. Nuclear Physics A, 1995, 583, 413-420.	1.5	0
118	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
119	Electromagnetic signals of quark gluon plasma. Pramana - Journal of Physics, 2000, 54, 573-587.	1.8	0
120	Development of a honeycomb gas proportional counter array for photon multiplicity measurements in high multiplicity environment. Pramana - Journal of Physics, 2003, 60, 1023-1027.	1.8	0
121	Relics of cosmic quark-hadron phase transition and massive compact halo objects. Nuclear Physics A, 2003, 715, 827c-830c.	1.5	0
122	Some aspects of strangeness in astrophysics and cosmology. Nuclear Physics A, 2003, 721, C1028-C1031.	1.5	0
123	QCD PHASE TRANSITION â€” THE MINI BANG AND THE BIG BANG. International Journal of Modern Physics E, 2007, 16, 829-840.	1.0	0
124	Electromagnetic Probes : A Chronometer of Heavy Ion Collision. , 2010, , .		0
125	FAIR@Germany. Journal of Radioanalytical and Nuclear Chemistry, 2011, 290, 5-10.	1.5	0
126	Relics of the Cosmological Quark-Hadron Phase Transition. , 2001, , .		0



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127	The Mini Bang and the Big Bang: From Collider to Cosmology. , 2013, , 261-273.		0
128	Electromagnetic Probes of Quark Gluon Plasma. , 1996, , .		0
129	QCD Phase Transition in the Laboratory and in the Early Universe. , 1998, , .		0
130	Hawking Radiation from the Relics of the Cosmic Quark Hadron Phase Transition. Springer Proceedings in Physics, 2020, , 409-413.	0.2	0
131	Hawking Radiation from Relics of the QCD Phase Transitionâ€™Strange Quark Nuggets, Primordial Black Holes, and White Holes. Physics of Particles and Nuclei, 2022, 53, 159-166.	0.7	0