

Sownak Bose

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

33,793
citations

43973

48
h-index

62479

80
g-index

86
all docs

86
docs citations

86
times ranked

16469
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102.	2.9	8,753
2	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101.	2.9	6,413
3	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	2.9	2,701
4	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13.	3.0	2,314
5	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101.	2.9	1,987
6	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	2.9	1,600
7	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	2.9	1,473
8	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	2.9	1,224
9	GW190521: A Binary Black Hole Merger with a Total Mass of 150% . Physical Review Letters, 2020, 125, 101102.	2.9	1,006
10	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	2.9	673
11	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103.	2.9	466
12	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	8.2	447
13	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	8.2	427
14	Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102.	2.9	370
15	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102.	2.9	269
16	The mass-concentration-redshift relation of cold and warm dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1214-1232.	1.6	227
17	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. Physical Review Letters, 2017, 118, 121101.	2.9	194
18	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101.	2.9	166

#	ARTICLE	IF	CITATIONS
19	Rapid Reionization by the Oligarchs: The Case for Massive, UV-bright, Star-forming Galaxies with High Escape Fractions. <i>Astrophysical Journal</i> , 2020, 892, 109.	1.6	166
20	A Redshift-independent Efficiency Model: Star Formation and Stellar Masses in Dark Matter Halos at $z \lesssim 4$. <i>Astrophysical Journal</i> , 2018, 868, 92.	1.6	145
21	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	1.6	144
22	Universal structure of dark matter haloes over a mass range of 20 orders of magnitude. <i>Nature</i> , 2020, 585, 39-42.	13.7	140
23	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	2.9	119
24	Modified gravity <i>N</i> -body code comparison project. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 4208-4234.	1.6	104
25	The Copernicus Complexio: statistical properties of warm dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 318-333.	1.6	102
26	The extraordinary amount of substructure in the Hubble Frontier Fields cluster Abell 2744. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3876-3893.	1.6	99
27	First Star-Forming Structures in Fuzzy Cosmic Filaments. <i>Physical Review Letters</i> , 2019, 123, 141301.	2.9	94
28	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 241102.	2.9	87
29	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	2.9	85
30	The Copernicus Complexio: a high-resolution view of the small-scale Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3492-3509.	1.6	84
31	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	2.9	84
32	Planes of satellite galaxies: when exceptions are the rule. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 3838-3852.	1.6	79
33	The Santiago-Harvard-Edinburgh-Durham void comparison I. SHEDding light on chameleon gravity tests. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3195-3217.	1.6	78
34	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	2.9	77
35	AbacusSummit: a massive set of high-accuracy, high-resolution <i>N</i> -body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4017-4037.	1.6	74
36	Substructure and galaxy formation in the Copernicus Complexio warm dark matter simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 4520-4533.	1.6	72

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55	Speeding up N-body simulations of modified gravity: Vainshtein screening models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 059-059.	1.9	33
56	The galaxyâ€‘halo connection of emission-line galaxies in IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3599-3617.	1.6	33
57	Evidence for galaxy assembly bias in BOSS CMASS redshift-space galaxy correlation function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3582-3598.	1.6	32
58	Reionization in sterile neutrino cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3848-3859.	1.6	31
59	The little things matter: relating the abundance of ultrafaint satellites to the hostsâ€™ assembly history. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 743-757.	1.6	27
60	<scp>AbacusHOD</scp>: a highly efficient extended multitracer HOD framework and its application to BOSS and eBOSS data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3301-3320.	1.6	26
61	Weak lensing by galaxy troughs with modified gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 031-031.	1.9	23
62	ETHOS â€‘ an Effective Theory of Structure Formation: detecting dark matter interactions through the Lyman- β forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 522-536.	1.6	23
63	The accuracy of weak lensing simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 305-319.	1.6	22
64	Galaxy assembly bias and large-scale distribution: a comparison between IllustrisTNG and a semi-analytic model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 698-718.	1.6	22
65	<scp>compaso</scp>: A new halo finder for competitive assignment to spherical overdensities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 501-521.	1.6	22
66	RAY-RAMSES: a code for ray tracing on the fly in N-body simulations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 001-001.	1.9	20
67	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	1.8	20
68	Illustrating galaxyâ€‘halo connection in the DESI era with <scp>illustrisTNG</scp>. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 5793-5811.	1.6	18
69	Dwarf stellar haloes: a powerful probe of small-scale galaxy formation and the nature of dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 4044-4059.	1.6	17
70	Morphological Types of DM Halos in Milky Way-like Galaxies in the TNG50 Simulation: Simple, Twisted, or Stretched. <i>Astrophysical Journal</i> , 2021, 913, 36.	1.6	15
71	Constraining SN feedback: a tug of war between reionization and the Milky Way satellites. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 1224-1239.	1.6	10
72	Constructing high-fidelity halo merger trees in <scp>abacussummit</scp>. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 837-854.	1.6	10

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73	The signal of decaying dark matter with hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4071-4089.	1.6	9
74	Degeneracies between baryons and dark matter: the challenge of constraining the nature of dark matter with JWST. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4139-4150.	1.6	9
75	Inferring the Morphology of Stellar Distribution in TNG50: Twisted and Twisted-stretched Shapes. Astrophysical Journal, 2021, 918, 7.	1.6	9
76	Dynamics of intermediate-mass black holes wandering in the milky way galaxy using the illustris TNG50 simulation. Monthly Notices of the Royal Astronomical Society, 2022, 511, 2229-2238.	1.6	9
77	The halo light-cone catalogues of AbacusSummit. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2194-2208.	1.6	8
78	Dating the Tidal Disruption of Globular Clusters with GAIA Data on Their Stellar Streams. Astrophysical Journal Letters, 2018, 859, L13.	3.0	5
79	Measuring the Mass and Concentration of Dark Matter Halos from the Velocity Dispersion Profile of their Stars. Astrophysical Journal, 2021, 912, 114.	1.6	4
80	Simulating the Dark Matter Decay Signal from the Perseus Galaxy Cluster. Astrophysical Journal Letters, 2019, 875, L24.	3.0	3
81	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
82	Reionisation in Sterile Neutrino Cosmologies. Springer Theses, 2018, , 77-100.	0.0	0
83	Substructure and Galaxy Formation in Warm Dark Matter Simulations. Springer Theses, 2018, , 51-75.	0.0	0
84	Statistical Properties of Warm Dark Matter Haloes. Springer Theses, 2018, , 15-50.	0.0	0
85	Speeding up N-Body Simulations of Modified Gravity: Chameleon Screening Models. Springer Theses, 2018, , 139-159.	0.0	0