

# Bijan Saha

## List of Publications by Year in descending order

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78  
papers

1,749  
citations

279798

23  
h-index

289244

40  
g-index

78  
all docs

78  
docs citations

78  
times ranked

338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spinor field in a Bianchi type-I universe: Regular solutions. <i>Physical Review D</i> , 2001, 64, .	4.7	103
2	Bianchi type-I cosmology with scalar and spinor fields. <i>Physical Review D</i> , 2004, 69, .	4.7	95
3	Anisotropic Cosmological Models with a Perfect Fluid and a $\hat{\nu}$ Term. <i>Astrophysics and Space Science</i> , 2006, 302, 83-91.	1.4	85
4	Bianchi Type-I Anisotropic Dark Energy Model with Constant Deceleration Parameter. <i>International Journal of Theoretical Physics</i> , 2011, 50, 2923-2938.	1.2	82
5	Nonlinear spinor field in Bianchi type-I cosmology: Inflation, isotropization, and late time acceleration. <i>Physical Review D</i> , 2006, 74, .	4.7	77
6	An Interacting Two-Fluid Scenario for Dark Energy in an FRW Universe. <i>Chinese Physics Letters</i> , 2011, 28, 039801.	3.3	70
7	Two-fluid scenario for dark energy models in an FRW universe-revisited. <i>Astrophysics and Space Science</i> , 2012, 342, 257-267.	1.4	70
8	BIANCHI TYPE I UNIVERSE WITH VISCOUS FLUID. <i>Modern Physics Letters A</i> , 2005, 20, 2127-2143.	1.2	68
9	LRS Bianchi-I anisotropic cosmological model with dominance of dark energy. <i>Astrophysics and Space Science</i> , 2012, 337, 759-765.	1.4	67
10	Interacting Spinor and Scalar Fields in Bianchi Type I Universe Filled with Perfect Fluid: Exact Self-Consistent Solutions. <i>General Relativity and Gravitation</i> , 1997, 29, 1099-1113.	2.0	66
11	Variable equation of state for Bianchi type-VI0 dark energy models. <i>Astrophysics and Space Science</i> , 2011, 333, 295-303.	1.4	56
12	Nonlinear spinor field in cosmology. <i>Physical Review D</i> , 2004, 69, .	4.7	53
13	Anisotropic Cosmological Models with Perfect Fluid and Dark Energy Reexamined. <i>International Journal of Theoretical Physics</i> , 2006, 45, 952-964.	1.2	50
14	Nonlinear spinor field in Bianchi type-I Universe filled with perfect fluid: Exact self-consistent solutions. <i>Journal of Mathematical Physics</i> , 1997, 38, 5305-5318.	1.1	46
15	An interacting and non-interacting two-fluid scenario for dark energy in FRW universe with constant deceleration parameter. <i>Astrophysics and Space Science</i> , 2011, 333, 343-350.	1.4	44
16	Bianchi type I universe with viscous fluid and a $\hat{\nu}$ term: A qualitative analysis. <i>Physica D: Nonlinear Phenomena</i> , 2006, 219, 168-176.	2.8	43
17	Dark energy model with variable $q$ and $\hat{\nu}$ in LRS Bianchi-II space-time. <i>Astrophysics and Space Science</i> , 2012, 341, 651-656.	1.4	43
18	Material equations for electromagnetism with toroidal polarizations. <i>Physical Review E</i> , 2000, 61, 7087-7097.	2.1	42

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19	DIRAC SPINOR IN BIANCHI-I UNIVERSE WITH TIME-DEPENDENT GRAVITATIONAL AND COSMOLOGICAL CONSTANTS. <i>Modern Physics Letters A</i> , 2001, 16, 1287-1296.	1.2	35
20	Nonlinear Spinor Fields and Its Role in Cosmology. <i>International Journal of Theoretical Physics</i> , 2012, 51, 1812-1837.	1.2	31
21	Spinor fields in Bianchi type-I universe. <i>Physics of Particles and Nuclei</i> , 2006, 37, S13-S44.	0.7	24
22	String cosmological model in the presence of a magnetic flux. <i>Astrophysics and Space Science</i> , 2008, 315, 99-104.	1.4	24
23	Bianchi type-I transit cosmological models with time dependent gravitational and cosmological constants: reexamined. <i>Indian Journal of Physics</i> , 2015, 89, 503-513.	1.8	23
24	Reconstruction of modified $f(R, T)$ with $\hat{\Lambda}(T)$ gravity in general class of Bianchi cosmological models. <i>Canadian Journal of Physics</i> , 2015, 93, 654-662.	1.1	23
25	Nonlinear spinor fields in Bianchi type-I spacetime: problems and possibilities. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	1.4	21
26	Nonlinear spinor field in Bianchi type-I Universe filled with $\Lambda$ viscous fluid: numerical solutions. <i>Astrophysics and Space Science</i> , 2007, 312, 3-11.	1.4	19
27	Spinor fields in spherical symmetry: Einstein-Dirac and other space-times. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	19
28	Spinor model of a perfect fluid and their applications in Bianchi type-I and FRW models. <i>Astrophysics and Space Science</i> , 2011, 331, 243-255.	1.4	18
29	Isotropic and anisotropic dark energy models. <i>Physics of Particles and Nuclei</i> , 2014, 45, 349-396.	0.7	16
30	Soliton model of atom. <i>Foundations of Physics</i> , 1995, 25, 1723-1731.	1.3	14
31	Solitons of nonlinear scalar electrodynamics in general relativity. <i>International Journal of Theoretical Physics</i> , 1997, 36, 1475-1494.	1.2	14
32	Interacting Scalar And Spinor Fields In Bianchi Type I Universe Filled With Magneto-Fluid. <i>Astrophysics and Space Science</i> , 2005, 299, 149-158.	1.4	14
33	Nonlinear spinor field in isotropic space-time and dark energy models. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	14
34	Bianchi Type-I Model with Cosmic String in the Presence of a Magnetic Field: Spinor Description. <i>International Journal of Theoretical Physics</i> , 2010, 49, 1411-1421.	1.2	13
35	Fluid sphere: Stability problem and dimensional constraint. <i>International Journal of Modern Physics D</i> , 2015, 24, 1550049.	2.1	13
36	Bianchi type-I string cosmological model in the presence of a magnetic field: classical versus loop quantum cosmology approaches. <i>Astrophysics and Space Science</i> , 2012, 339, 371-377.	1.4	12

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37	Bianchi type VI cosmological models: a Scale-Covariant study. <i>Astrophysics and Space Science</i> , 2013, 343, 445-450.	1.4	12
38	Bianchi Type-V Dark Energy Model with Varying EoS Parameter. <i>International Journal of Theoretical Physics</i> , 2013, 52, 1314-1325.	1.2	12
39	Static Plane-Symmetric Nonlinear Spinor and Scalar Fields in GR. <i>International Journal of Theoretical Physics</i> , 2005, 44, 1459-1494.	1.2	11
40	Early inflation, isotropization, and late time acceleration in a Bianchi type-I universe. <i>Physics of Particles and Nuclei</i> , 2009, 40, 656-673.	0.7	11
41	Nonlinear Spinor Fields in Bianchi Type-I Spacetime Reexamined. <i>International Journal of Theoretical Physics</i> , 2014, 53, 1109-1129.	1.2	11
42	Plane-Symmetric Solitons of Spinor and Scalar Fields. <i>European Physical Journal D</i> , 2004, 54, 597-620.	0.4	10
43	Bianchi type-I string cosmological model in the presence of a magnetic flux: exact and qualitative solutions. <i>Open Physics</i> , 2010, 8, .	1.7	10
44	Spinor model of a perfect fluid. <i>Open Physics</i> , 2010, 8, .	1.7	10
45	Spinor field with induced nonlinearity in Bianchi VI cosmology: Exact and numerical solutions. <i>Gravitation and Cosmology</i> , 2010, 16, 160-167.	1.1	9
46	Interacting Scalar and Electromagnetic Fields in $f(R, T)$ Theory of Gravity. <i>International Journal of Theoretical Physics</i> , 2015, 54, 3776-3787.	1.2	9
47	Interaction of a charged 3D soliton with a Coulomb center. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 222, 5-13.	2.1	8
48	Anisotropic cosmological models with spinor field and viscous fluid in the presence of a $\hat{\nu}$ term: qualitative solutions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 14011-14027.	2.1	8
49	Bianchi Type-VI Anisotropic Dark Energy Model with Varying EoS Parameter. <i>International Journal of Theoretical Physics</i> , 2013, 52, 3646-3657.	1.2	8
50	Accelerating dark energy models of the universe in anisotropic Bianchi type space-times and recent observations. <i>Physics of Particles and Nuclei</i> , 2015, 46, 310-346.	0.7	8
51	Spinor Field Nonlinearity and Space-Time Geometry. <i>Physics of Particles and Nuclei</i> , 2018, 49, 146-212.	0.7	8
52	Spinor fields in spherically symmetric space-time. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	8
53	Anisotropic cosmological models with spinor and scalar fields and viscous fluid in presence of a $\hat{\nu}$ term: Qualitative solutions. <i>Journal of Mathematical Physics</i> , 2008, 49, 112502.	1.1	7
54	Bianchi type-II cosmological model: some remarks. <i>Open Physics</i> , 2011, 9, .	1.7	7

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55	Some remarks on Bianchi type-II, VIII, and IX models. <i>Gravitation and Cosmology</i> , 2013, 19, 65-69.	1.1	7
56	Nonlinear spinor fields in Bianchi type-VI0 spacetime. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	7
57	Nonlinear spinor fields in Bianchi type-VI spacetime. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	7
58	Nonlinear Spinor Fields in Bianchi type-III Spacetime. <i>International Journal of Theoretical Physics</i> , 2016, 55, 2259-2274.	1.2	6
59	Non-minimally coupled nonlinear spinor field in FRW cosmology. <i>Astrophysics and Space Science</i> , 2020, 365, 1.	1.4	6
60	Bianchi type V bulk viscous cosmological models with particle creation in general relativity. <i>European Physical Journal Plus</i> , 2014, 129, 1.	2.6	5
61	BELâ€™ROBINSON TENSOR AND DOMINANT ENERGY PROPERTY IN THE BIANCHI TYPE I UNIVERSE. <i>Modern Physics Letters A</i> , 2006, 21, 847-861.	1.2	4
62	Spinor field with polynomial nonlinearity in LRS Bianchi type-I spaceâ€™time. <i>Canadian Journal of Physics</i> , 2016, 94, 116-121.	1.1	4
63	Non-minimally coupled nonlinear spinor field in Bianchi type-I cosmology. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	4
64	Spinors in Cylindrically Symmetric Spaceâ€™Time. <i>Universe</i> , 2020, 6, 152.	2.5	4
65	SOLITONS OF SCALAR FIELD WITH INDUCED NONLINEARITY AND THEIR STABILITY. <i>International Journal of Modern Physics A</i> , 2000, 15, 1481-1496.	1.5	3
66	Lorentz transformation of toroid polarization. <i>Ferroelectrics, Letters Section</i> , 2000, 27, 1-6.	1.0	3
67	Interacting spinor and scalar fields in a bianchi type-I universe filled with viscous fluid: Exact and numerical solutions. <i>Gravitation and Cosmology</i> , 2009, 15, 353-361.	1.1	3
68	Nonlinear spinor fields in an anisotropic universe filled with viscous fluid: Exact solutions and qualitative analysis. <i>Physics of Particles and Nuclei</i> , 2009, 40, 612-655.	0.7	3
69	Electromagnetic field with induced massive term: Case with scalar field. <i>Open Physics</i> , 2011, 9, .	1.7	3
70	ON THE NATURAL GAUGE FIELDS OF MANIFOLDS. <i>Modern Physics Letters A</i> , 2000, 15, 1991-2005.	1.2	2
71	Magnetic Bianchi type II string cosmological model in loop quantum cosmology. <i>Astrophysics and Space Science</i> , 2014, 352, 255-261.	1.4	2
72	Scalar Field in Cosmology: Potential for Isotropization and Inflation. <i>International Journal of Theoretical Physics</i> , 2011, 50, 3421-3431.	1.2	1

#	ARTICLE	IF	CITATIONS
73	Nonlinear Spinor Field in Non-Diagonal Bianchi Type Space-Time. EPJ Web of Conferences, 2018, 173, 02018.	0.3	1
74	A String Cosmological Model of Bianchi Type-I in the Presence of a Magnetic Flux. , 2009, , .		0
75	Nonlinear spinor fields in LRS Bianchi type-I space-time: Theory and observation. Gravitation and Cosmology, 2017, 23, 329-336.	1.1	0
76	Bianchi type-VIII spinor solutions. European Physical Journal Plus, 2017, 132, 1.	2.6	0
77	Spinor field in Bianchi type-IX space-time. Canadian Journal of Physics, 2018, 96, 1074-1084.	1.1	0
78	Interacting self-consistent system of spinor and gravitational fields. International Journal of Modern Physics A, 2020, 35, 2040047.	1.5	0