Bijan Saha

List of Publications by Year
in descending order

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	Spinors in Cylindrically Symmetric Space–Time. Universe, 2020, 6, 152.	2.5	4
2	Spinor fields in spherical symmetry: Einstein–Dirac and other space-times. European Physical Journal Plus, 2020, 135, 1.	2.6	19
3	Non-minimally coupled nonlinear spinor field in FRW cosmology. Astrophysics and Space Science, 2020, 365, 1.	1.4	6
4	Interacting self-consistent system of spinor and gravitational fields. International Journal of Modern Physics A, 2020, 35, 2040047.	1.5	0
5	Non-minimally coupled nonlinear spinor field in Bianchi type-I cosmology. European Physical Journal Plus, 2019, 134, 1.	2.6	4
6	Spinor Field Nonlinearity and Space-Time Geometry. Physics of Particles and Nuclei, 2018, 49, 146-212.	0.7	8
7	Spinor fields in spherically symmetric space-time. European Physical Journal Plus, 2018, 133, 1.	2.6	8
8	Nonlinear Spinor Field in Non-Diagonal Bianchi Type Space-Time. EPJ Web of Conferences, 2018, 173, 02018.	0.3	1
9	Spinor field in Bianchi type-IX space–time. Canadian Journal of Physics, 2018, 96, 1074-1084.	1.1	0
10	Nonlinear spinor fields in LRS Bianchi type-I space-time: Theory and observation. Gravitation and Cosmology, 2017, 23, 329-336.	1.1	0
11	Bianchi type-VIII spinor solutions. European Physical Journal Plus, 2017, 132, 1.	2.6	0
12	Nonlinear spinor field in isotropic space-time and dark energy models. European Physical Journal Plus, 2016, 131, 1.	2.6	14
13	Spinor field with polynomial nonlinearity in LRS Bianchi type-I space–time. Canadian Journal of Physics, 2016, 94, 116-121.	1.1	4
14	Nonlinear spinor fields in Bianchi type-VI spacetime. European Physical Journal Plus, 2016, 131, 1.	2.6	7
15	Nonlinear Spinor Fields in Bianchi type-III Spacetime. International Journal of Theoretical Physics, 2016, 55, 2259-2274.	1.2	6
16	Nonlinear spinor fields in Bianchi type-I spacetime: problems and possibilities. Astrophysics and Space Science, 2015, 357, 1.	1.4	21
17	Accelerating dark energy models of the universe in anisotropic Bianchi type space-times and recent observations. Physics of Particles and Nuclei, 2015, 46, 310-346.	0.7	8
18	Interacting Scalar and Electromagnetic Fields in f (R, T) Theory of Gravity. International Journal of Theoretical Physics, 2015, 54, 3776-3787.	1.2	9

#	Article	IF	Citations
19	Nonlinear spinor fields in Bianchi type-VI0 spacetime. European Physical Journal Plus, 2015, 130, 1.	2.6	7
20	Fluid sphere: Stability problem and dimensional constraint. International Journal of Modern Physics D, 2015, 24, 1550049.	2.1	13
21	Bianchi type-I transit cosmological models with time dependent gravitational and cosmological constants: reexamined. Indian Journal of Physics, 2015, 89, 503-513.	1.8	23
22	Reconstruction of modified f(R, T) with Î›(T) gravity in general class of Bianchi cosmological models. Canadian Journal of Physics, 2015, 93, 654-662.	1.1	23
23	Magnetic Bianchi type II string cosmological model in loop quantum cosmology. Astrophysics and Space Science, 2014, 352, 255-261.	1.4	2
24	Isotropic and anisotropic dark energy models. Physics of Particles and Nuclei, 2014, 45, 349-396.	0.7	16
25	Nonlinear Spinor Fields in Bianchi Type-I Spacetime Reexamined. International Journal of Theoretical Physics, 2014, 53, 1109-1129.	1.2	11
26	Bianchi type V bulk viscous cosmological models with particle creation in general relativity. European Physical Journal Plus, 2014, 129, 1.	2.6	5
27	Bianchi type VI cosmological models: a Scale-Covariant study. Astrophysics and Space Science, 2013, 343, 445-450.	1.4	12
28	Bianchi Type-V Dark Energy Model with Varying EoS Parameter. International Journal of Theoretical Physics, 2013, 52, 1314-1325.	1.2	12
29	Some remarks on Bianchi type-II, VIII, and IX models. Gravitation and Cosmology, 2013, 19, 65-69.	1.1	7
30	Bianchi Type-VI Anisotropic Dark Energy Model with Varying EoS Parameter. International Journal of Theoretical Physics, 2013, 52, 3646-3657.	1.2	8
31	Dark energy model with variable q and Ï‰ in LRS Bianchi-II space-time. Astrophysics and Space Science, 2012, 341, 651-656.	1.4	43
32	Two-fluid scenario for dark energy models in an FRW universe-revisited. Astrophysics and Space Science, 2012, 342, 257-267.	1.4	70
33	Nonlinear Spinor Fields and Its Role in Cosmology. International Journal of Theoretical Physics, 2012, 51, 1812-1837.	1.2	31
34	Bianchi type-I string cosmological model in the presence of a magnetic field: classical versus loop quantum cosmology approaches. Astrophysics and Space Science, 2012, 339, 371-377.	1.4	12
35	LRS Bianchi-I anisotropic cosmological model with dominance of dark energy. Astrophysics and Space Science, 2012, 337, 759-765.	1.4	67
36	Bianchi type-II cosmological model: some remarks. Open Physics, 2011, 9, .	1.7	7

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37	Electromagnetic field with induced massive term: Case with scalar field. Open Physics, 2011, 9, .	1.7	3
38	Bianchi Type-I Anisotropic Dark Energy Model with Constant Deceleration Parameter. International Journal of Theoretical Physics, 2011, 50, 2923-2938.	1.2	82
39	Scalar Field in Cosmology: Potential for Isotropization and Inflation. International Journal of Theoretical Physics, 2011, 50, 3421-3431.	1.2	1
40	Spinor model of a perfect fluid and their applications in Bianchi type-I and FRW models. Astrophysics and Space Science, 2011, 331, 243-255.	1.4	18
41	Variable equation of state for Bianchi type-VI0 dark energy models. Astrophysics and Space Science, 2011, 333, 295-303.	1.4	56
42	An interacting and non-interacting two-fluid scenario for dark energy in FRW universe with constant deceleration parameter. Astrophysics and Space Science, 2011, 333, 343-350.	1.4	44
43	An Interacting Two-Fluid Scenario for Dark Energy in an FRW Universe. Chinese Physics Letters, 2011, 28, 039801.	3.3	70
44	Spinor field with induced nonlinearity in Bianchi VI cosmology: Exact and numerical solutions. Gravitation and Cosmology, 2010, 16, 160-167.	1.1	9
45	Bianchi type-I string cosmological model in the presence of a magnetic flux: exact and qualitative solutions. Open Physics, 2010, 8, .	1.7	10
46	Spinor model of a perfect fluid. Open Physics, 2010, 8, .	1.7	10
47	Bianchi Type-I Model with Cosmic String in the Presence of a Magnetic Field: Spinor Description. International Journal of Theoretical Physics, 2010, 49, 1411-1421.	1.2	13
48	A String Cosmological Model of Bianchi Type-I in the Presence of a Magnetic Flux. , 2009, , .		0
49	Interacting spinor and scalar fields in a bianchi type-I universe filled with viscous fluid: Exact and numerical solutions. Gravitation and Cosmology, 2009, 15, 353-361.	1.1	3
50	Nonlinear spinor fields in an anisotropic universe filled with viscous fluid: Exact solutions and qualitative analysis. Physics of Particles and Nuclei, 2009, 40, 612-655.	0.7	3
51	Early inflation, isotropization, and late time acceleration in a Bianchi type-I universe. Physics of Particles and Nuclei, 2009, 40, 656-673.	0.7	11
52	String cosmological model in the presence of a magnetic flux. Astrophysics and Space Science, 2008, 315, 99-104.	1.4	24
53	Anisotropic cosmological models with spinor and scalar fields and viscous fluid in presence of a Î› term: Qualitative solutions. Journal of Mathematical Physics, 2008, 49, 112502.	1.1	7
54	Anisotropic cosmological models with spinor field and viscous fluid in the presence of a Î› term: qualitative solutions. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14011-14027.	2.1	8

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55	Nonlinear spinor field in Bianchi type-I Universe filled withÂviscous fluid: numerical solutions. Astrophysics and Space Science, 2007, 312, 3-11.	1.4	19
56	Nonlinear spinor field in Bianchi type-I cosmology: Inflation, isotropization, and late time acceleration. Physical Review D, 2006, 74, .	4.7	77
57	Bianchi type I universe with viscous fluid and a term: A qualitative analysis. Physica D: Nonlinear Phenomena, 2006, 219, 168-176.	2.8	43
58	Spinor fields in Bianchi type-I universe. Physics of Particles and Nuclei, 2006, 37, S13-S44.	0.7	24
59	Anisotropic Cosmological Models with Perfect Fluid and Dark Energy Reexamined. International Journal of Theoretical Physics, 2006, 45, 952-964.	1.2	50
60	Anisotropic Cosmological Models with a Perfect Fluid and a Î› Term. Astrophysics and Space Science, 2006, 302, 83-91.	1.4	85
61	BELâ€"ROBINSON TENSOR AND DOMINANT ENERGY PROPERTY IN THE BIANCHI TYPE I UNIVERSE. Modern Physics Letters A, 2006, 21, 847-861.	1.2	4
62	Interacting Scalar And Spinor Fields In Bianchi Type I Universe Filled With Magneto-Fluid. Astrophysics and Space Science, 2005, 299, 149-158.	1.4	14
63	Static Plane-Symmetric Nonlinear Spinor and Scalar Fields in GR. International Journal of Theoretical Physics, 2005, 44, 1459-1494.	1.2	11
64	BIANCHI TYPE I UNIVERSE WITH VISCOUS FLUID. Modern Physics Letters A, 2005, 20, 2127-2143.	1.2	68
65	Nonlinear spinor field in cosmology. Physical Review D, 2004, 69, .	4.7	53
66	Bianchi type-I cosmology with scalar and spinor fields. Physical Review D, 2004, 69, .	4.7	95
67	Plane-Symmetric Solitons of Spinor and Scalar Fields. European Physical Journal D, 2004, 54, 597-620.	0.4	10
68	DIRAC SPINOR IN BIANCHI-I UNIVERSE WITH TIME-DEPENDENT GRAVITATIONAL AND COSMOLOGICAL CONSTANTS. Modern Physics Letters A, 2001, 16, 1287-1296.	1.2	35
69	Spinor field in a Bianchi type-I universe: Regular solutions. Physical Review D, 2001, 64, .	4.7	103
70	SOLITONS OF SCALAR FIELD WITH INDUCED NONLINEARITY AND THEIR STABILITY. International Journal of Modern Physics A, 2000, 15, 1481-1496.	1.5	3
71	Lorentz transformation of toroid polarization. Ferroelectrics, Letters Section, 2000, 27, 1-6.	1.0	3
72	ON THE NATURAL GAUGE FIELDS OF MANIFOLDS. Modern Physics Letters A, 2000, 15, 1991-2005.	1.2	2

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73	Material equations for electromagnetism with toroidal polarizations. Physical Review E, 2000, 61, 7087-7097.	2.1	42
74	Nonlinear spinor field in Bianchi type-I Universe filled with perfect fluid: Exact self-consistent solutions. Journal of Mathematical Physics, 1997, 38, 5305-5318.	1.1	46
75	Interacting Spinor and Scalar Fields in Bianchi Type I Universe Filled with Perfect Fluid: Exact Self-Consistent Solutions. General Relativity and Gravitation, 1997, 29, 1099-1113.	2.0	66
76	Solitons of nonlinear scalar electrodynamics in general relativity. International Journal of Theoretical Physics, 1997, 36, 1475-1494.	1.2	14
77	Interaction of a charged 3D soliton with a Coulomb center. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 222, 5-13.	2.1	8
78	Soliton model of atom. Foundations of Physics, 1995, 25, 1723-1731.	1.3	14