Motoyuki Saijo

List of Publications by Year
in descending order

35 papers	**1,670** citations	516681 **16** h-index	434170 **31** g-index
35 all docs	**35** docs citations	**35** times ranked	**1405** citing authors

#	Article	IF	Citations
1	Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001.	2.1	73
2	Determining the stiffness of the equation of state using low $T/\|W\|$ dynamical instabilities in differentially rotating stars. Physical Review D, 2018, 98, .	4.7	3
3	The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010.	0.4	148
4	On the role of corotation radius in the low T/W dynamical instability of differentially rotating stars. Monthly Notices of the Royal Astronomical Society, 2017, 466, 600-612.	4.4	12
5	Unstable normal modes of low $T/\|W\|$ dynamical instabilities in differentially rotating stars. Physical Review D, 2016, 94, .	4.7	9
6	COLLAPSE OF A DIFFERENTIALLY ROTATING SUPERMASSIVE STAR TO A SUPERMASSIVE BLACK HOLE. , 2012, , .		0
7	Dynamic black holes through gravitational collapse: Analysis of the multipole moment of the curvatures on the horizon. Physical Review D, 2011, 83, .	4.7	4
8	The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011.	4.0	456
9	DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010.	4.0	39
10	DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019.	4.0	18
11	Collapse of differentially rotating supermassive stars: Post black hole formation. Physical Review D, 2009, 80, .	4.7	22
12	DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040.	0.4	30
13	Amplification of azimuthal modes with odd wave numbers during dynamical bar-mode growth in rotating stars. Physical Review D, 2008, 78, .	4.7	2
14	Faraday resonance in dynamical bar instability of differentially rotating stars. Physical Review D, 2008, 77, .	4.7	11
15	DECIGO: THE JAPANESE SPACE GRAVITATIONAL WAVE ANTENNA. , 2008, , .		0
16	Instabilities in rotating relativistic stars driven by viscosity. Astrophysics and Space Science, 2007, 308, 481-485.	1.4	1
17	Instabilities in rotating relativistic stars driven by viscosity. , 2007, , 481-485.		0
18	Viscosity driven instability in rotating relativistic stars. Physical Review D, 2006, 74, .	4.7	13

#	Article	IF	Citations
19	Gravitational waves from a dust disk around a Schwarzschild black hole. Physical Review D, 2006, 74, .	4.7	10
20	Low T/â^£Wâ^£ dynamical instabilities in differentially rotating stars: Diagnosis with canonical angular momentum. AIP Conference Proceedings, 2006, , .	0.4	1
21	Low T/|W| dynamical instability in differentially rotating stars: diagnosis with canonical angular momentum. Monthly Notices of the Royal Astronomical Society, 2006, 368, 1429-1442.	4.4	50
22	The Japanese space gravitational wave antennaâ€"DECIGO. Classical and Quantum Gravity, 2006, 23, S125-S131.	4.0	388
23	COLLAPSE OF A DIFFERENTIALLY ROTATING SUPERMASSIVE STAR. , 2006, , .		0
24	Dynamical bar instability in a relativistic rotational core collapse. Physical Review D, 2005, 71, .	4.7	12
25	The Collapse of Differentially Rotating Supermassive Stars: Conformally Flat Simulations. Astrophysical Journal, 2004, 615, 866-879.	4.5	26
26	Oneâ€armed Spiral Instability in Differentially Rotating Stars. Astrophysical Journal, 2003, 595, 352-364.	4.5	69
27	Collapse of a Rotating Supermassive Star to a Supermassive Black Hole: Postâ€Newtonian Simulations. Astrophysical Journal, 2002, 569, 349-361.	4.5	46
28	Dynamical bar instability in relativistic rotating stars. AIP Conference Proceedings, 2001, , .	0.4	1
29	Dynamical Bar Instability in Rotating Stars: Effect of General Relativity. Astrophysical Journal, 2001, 548, 919-931.	4.5	55
30	Possible direct method to determine the radius of a star from the spectrum of gravitational wave signals. II. Spectra for various cases. Physical Review D, 2001, 63, .	4.7	12
31	Gravitational waves from a spinning particle scattered by a relativistic star: Axial mode case. Physical Review D, 2001, 63, .	4.7	14
32	Possible Direct Method to Determine the Radius of a Star from the Spectrum of Gravitational Wave Signals. Physical Review Letters, 2000, 85, 2665-2668.	7.8	11
33	Gravitational waves from a test particle scattered by a neutron star: Axial mode case. Physical Review D, 1999, 60, .	4.7	46
34	Gravitational waves from a spinning particle plunging into a Kerr black hole. Physical Review D, 1998, 58, .	4.7	68
35	Gravitational waves in Brans-Dicke theory: Analysis by test particles around a Kerr black hole. Physical Review D, 1997, 56, 785-797.	4.7	20