Adrian C Ottewill

List of Publications by Year
in descending order

100 papers	4,031 citations	117453 34 h-index	123241 61 g-index
101 all docs	101 docs citations	101 times ranked	1827 citing authors

#	Article	IF	Citations
1	Characteristic formulation of the Regge-Wheeler and Zerilli Green functions. Physical Review D, 2021, 103, .	1.6	3
2	High-order asymptotics for the spin-weighted spheroidal equation at large real frequency. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180701.	1.0	5
3	Regularized calculation of the retarded Green function in a Schwarzschild spacetime. Physical Review D, 2019, 100, .	1.6	6
4	Spin-1 quasinormal frequencies in Schwarzschild spacetime for large overtone number. Physical Review D, 2018, 97, .	1.6	3
5	Accelerated motion and the self-force in Schwarzschild spacetime. Classical and Quantum Gravity, 2018, 35, 194001.	1.5	13
6	Spin-orbit precession along eccentric orbits for extreme mass ratio black hole binaries and its effective-one-body transcription. Physical Review D, 2017, 96, .	1.6	33
7	High-order late-time tail in a Kerr spacetime. Physical Review D, 2016, 94, .	1.6	7
8	Analytic self-force calculations in the post-Newtonian regime: Eccentric orbits on a Schwarzschild background. Physical Review D, 2016, 93, .	1.6	48
9	Analytical high-order post-Newtonian expansions for spinning extreme mass ratio binaries. Physical Review D, 2016, 93, .	1.6	40
10	Analytical high-order post-Newtonian expansions for extreme mass ratio binaries. Physical Review D, 2015, 92, .	1.6	71
11	Octupolar invariants for compact binaries on quasicircular orbits. Physical Review D, 2015, 92, .	1.6	23
12	Vacuum polarization on the brane. Physical Review D, 2015, 92, .	1.6	8
13	High-order tail in Schwarzschild spacetime. Physical Review D, 2015, 92, .	1.6	16
14	Tidal invariants for compact binaries on quasicircular orbits. Physical Review D, 2015, 91, .	1.6	60
15	High-order expansions of the Detweiler-Whiting singular field in Kerr spacetime. Physical Review D, 2014, 89, .	1.6	26
16	Static detectors and circular-geodesic detectors on the Schwarzschild black hole. Physical Review D, 2014, 89, .	1.6	48
17	Self-force via Green functions and worldline integration. Physical Review D, 2014, 89, .	1.6	31
18	Quantization of fermions on Kerr space-time. Physical Review D, 2013, 87, .	1.6	40

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19	Analytic investigation of the branch cut of the Green function in Schwarzschild space-time. Physical Review D, 2013, 87, .	1.6	14
20	Self-force and Green function in Schwarzschild spacetime via quasinormal modes and branch cut. Physical Review D, 2013, 88, .	1.6	33
21	High-order expansions of the Detweiler-Whiting singular field in Schwarzschild spacetime. Physical Review D, 2012, 86, .	1.6	47
22	Branch cut and quasinormal modes at large imaginary frequency in Schwarzschild space-time. Physical Review D, 2012, 86, .	1.6	11
23	Spectroscopy of the Schwarzschild Black Hole at Arbitrary Frequencies. Physical Review Letters, 2012, 109, 111101.	2.9	16
24	Static Kerr Greenâ€™s function in closed form and an analytic derivation of the self-force for a static scalar charge in Kerr space-time. Physical Review D, 2012, 86, .	1.6	14
25	Hadamard renormalization of the stress energy tensor in a spherically symmetric black hole space-time with an application to lukewarm black holes. Physical Review D, 2012, 85, .	1.6	13
26	Quantum field theory on the Bertotti-Robinson space-time. Physical Review D, 2012, 86, .	1.6	11
27	Hadamard renormalization of the stress energy tensor on the horizons of a spherically symmetric black hole space-time. Physical Review D, 2012, 85, .	1.6	10
28	Publisherâ€™s Note: Wave propagation and quasinormal mode excitation on Schwarzschild spacetime [Phys. Rev. D84, 104002 (2011)]. Physical Review D, 2011, 84, .	1.6	3
29	Renormalized vacuum polarization and stress tensor on the horizon of a Schwarzschild black hole threaded by a cosmic string. Classical and Quantum Gravity, 2011, 28, 015007.	1.5	15
30	Transport equation approach to calculations of Hadamard Green functions and non-coincident DeWitt coefficients. Physical Review D, 2011, 84, .	1.6	25
31	Wave propagation and quasinormal mode excitation on Schwarzschild spacetime. Physical Review D, 2011, 84, .	1.6	34
32	Vacuum polarization on the Schwarzschild metric threaded by a cosmic string. Physical Review D, 2010, 82, .	1.6	21
33	Extended Green-Liouville asymptotics and vacuum polarization for lukewarm black holes. Physical Review D, 2010, 82, .	1.6	15
34	PadÃ© approximants of the Green function in spherically symmetric spacetimes. Physical Review D, 2009, 79, .	1.6	26
35	On an expansion method for black hole quasinormal modes and Regge poles. Classical and Quantum Gravity, 2009, 26, 225003.	1.5	62
36	Self-force calculations with matched expansions and quasinormal mode sums. Physical Review D, 2009, 79, .	1.6	50

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37	Quasilocal contribution to the scalar self-force: Nongeodesic motion. Physical Review D, 2009, 79, .	1.6	24
38	Renormalized stress tensor in Kerr space-time: Numerical results for the Hartle-Hawking vacuum. Physical Review D, 2008, 77, .	1.6	31
39	Quasilocal contribution to the scalar self-force: Geodesic motion. Physical Review D, 2008, 77, .	1.6	23
40	Search for gravitational waves from binary black hole inspirals in LIGO data. Physical Review D, 2006, 73, .	1.6	75
41	Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries. Physical Review D, 2006, 73, .	1.6	40
42	Limits on Gravitational-Wave Emission from Selected Pulsars Using LIGO Data. Physical Review Letters, 2005, 94, 181103.	2.9	130
43	Upper limits on gravitational wave bursts in LIGO's second science run. Physical Review D, 2005, 72, .	1.6	57
44	Search for gravitational waves from primordial black hole binary coalescences in the galactic halo. Physical Review D, 2005, 72, .	1.6	79
45	Search for gravitational waves associated with the gamma ray burst GRB030329 using the LIGO detectors. Physical Review D, 2005, 72, .	1.6	74
46	TreeP: A Tree Based P2P Network Architecture. , 2005, , .		20
47	High frequency asymptotics for the spin-weighted spheroidal equation. Physical Review D, 2005, 71, .	1.6	27
48	Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts. Physical Review D, 2005, 72, .	1.6	49
49	Canonical quantization of the electromagnetic field on the Kerr background. Physical Review D, 2005, 71, .	1.6	23
50	Quasilocal contribution to the gravitational self-force. Physical Review D, 2005, 71, .	1.6	20
51	Upper limits on the strength of periodic gravitational waves from PSR J1939+2134. Classical and Quantum Gravity, 2004, 21, S671-S676.	1.5	4
52	Analysis of first LIGO science data for stochastic gravitational waves. Physical Review D, 2004, 69, .	1.6	96
53	Setting upper limits on the strength of periodic gravitational waves from PSRJ1939+2134using the first science data from the GEO 600 and LIGO detectors. Physical Review D, 2004, 69, .	1.6	165
54	Analysis of LIGO data for gravitational waves from binary neutron stars. Physical Review D, 2004, 69, .	1.6	145

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55	Detector description and performance for the first coincidence observations between LIGO and GEO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 154-179.	0.7	259
56	Rotating quantum thermal distribution. Physical Review D, 2003, 67, .	1.6	31
57	Detection of negative energy: 4-dimensional examples. Physical Review D, 2002, 65, .	1.6	38
58	Waveforms for gravitational radiation from cosmic string loops. Physical Review D, 2001, 63, .	1.6	12
59	Divergence of a quantum thermal state on Kerr space-time. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 273, 149-152.	0.9	18
60	Multi-taper Spectral Analysis in Gravitational Wave Data Analysis. General Relativity and Gravitation, 2000, 32, 385-398.	0.7	7
61	Renormalized stress tensor in Kerr space-time: General results. Physical Review D, 2000, 62, .	1.6	88
62	Quantum corrections to critical phenomena in gravitational collapse. Physical Review D, 1998, 58, .	1.6	8
63	Detection of anisotropies in the gravitational-wave stochastic background. Physical Review D, 1997, 56, 545-563.	1.6	117
64	The Bounce Method in the Theory of Quantum Decay. Annals of Physics, 1997, 260, 9-26.	1.0	1
65	<title>Theory of finite-sized multiple-aperture arrays in direct-view microscopy</title>. , 1996, , .		0
66	Long-range effects of cosmic string structure. Physical Review D, 1996, 53, 6829-6841.	1.6	41
67	Error in a calculation of the Casimir effect for a spherical boundary. Physical Review D, 1995, 52, 2598-2599.	1.6	0
68	One-loop quantum gravity in Schwarzschild space-time. Physical Review D, 1995, 51, 5676-5697.	1.6	47
69	Closed-form expression for the momentum radiated from cosmic string loops. Physical Review D, 1995, 51, 1546-1552.	1.6	10
70	Graviton production as a measure of gravitational entropy in an isotropic universe. Classical and Quantum Gravity, 1995, 12, 51-57.	1.5	14
71	Analytic results for the gravitational radiation from a class of cosmic string loops. Physical Review D, 1994, 50, 3703-3712.	1.6	21
72	Quantum vacuum instability near rotating stars. Physical Review D, 1993, 47, 1557-1562.	1.6	31

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73	Examples of the Vilkovisky-Dewitt effective action in one-loop quantum gravity. Physical Review D, 1992, 45, 4504-4513.	1.6	0
74	Anisotropy of the quantum thermal state in schwarzschild space-time. Physical Review D, 1992, 45, 3002-3005.	1.6	42
75	Photon and graviton Green's functions on cosmic string space-times. Physical Review D, 1992, 45, 4486-4503.	1.6	32
76	Gauge independence in Hadamard renormalization. Physical Review D, 1992, 46, 861-864.	1.6	5
77	Macroscopic detection of negative-energy fluxes. Physical Review D, 1992, 46, 4566-4573.	1.6	20
78	Renormalized electromagnetic stress tensor for an evaporating black hole. Physical Review D, 1991, 43, 4142-4144.	1.6	25
79	Effects of curvature couplings for quantum fields on cosmic-string space-times. Physical Review D, 1990, 42, 2669-2677.	1.6	61
80	Particle detectors in the presence of boundaries. Classical and Quantum Gravity, 1989, 6, 1041-1051.	1.5	15
81	Renormalized electromagnetic stress tensor in Schwarzschild spacetime. Physical Review D, 1989, 39, 1130-1138.	1.6	92
82	Radiation by Moving Mirrors in Curved Space-Time. Progress of Theoretical Physics, 1988, 79, 429-441.	2.0	8
83	Renormalized graviton stress-energy tensor in curved vacuum space-times. Physical Review D, 1988, 38, 1069-1082.	1.6	18
84	Renormalised electromagnetic energy density on the horizon of a Kerr black hole. Classical and Quantum Gravity, 1988, 5, L187-L189.	1.5	6
85	Particle Detector Response for Thermal States in Static Space-Times. Progress of Theoretical Physics, 1987, 77, 310-321.	2.0	5
86	Photon propagators and the definition and approximation of renormalized stress tensors in curved space-time. Physical Review D, 1986, 34, 1776-1786.	1.6	66
87	Conformally invariant quantum field theory in static Einstein space-times. Physical Review D, 1986, 33, 2840-2850.	1.6	112
88	A constraint on physical quantum states in cosmological space-times. General Relativity and Gravitation, 1985, 17, 573-578.	0.7	3
89	Is acceleration radiation isotropic?. Classical and Quantum Gravity, 1985, 2, 373-380.	1.5	9
90	Quantum states and the Hadamard form. III. Constraints in cosmological space-times. Physical Review D, 1985, 32, 1942-1948.	1.6	17

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91	Effective actions and conformal transformations. Physical Review D, 1985, 31, 2514-2520.	1.6	109
92	Quantum states and the Hadamard form. II. Energy minimization for spin-½ fields. Physical Review D, 1984, 30, 2573-2578.	1.6	19
93	Quantum states and the Hadamard form. I. Energy minimization for scalar fields. Physical Review D, 1984, 30, 1733-1741.	1.6	22
94	Notes on 'particle detectors'. Journal of Physics A, 1983, 16, 3905-3920.	1.6	35
95	The energy-momentum operator in curved space-time. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1983, 389, 379-403.	1.5	37
96	The stability of general relativistic cosmological theory. Journal of Physics A, 1983, 16, 2757-2776.	1.6	509
97	Comments on conformal Killing vector fields and quantum field theory. Physical Review D, 1982, 26, 1881-1899.	1.6	17
98	A simple approach to the calculation of observed vacuum stress in two-dimensional accelerated motions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 116, 405-406.	1.5	0
99	Negative energy radiation and the second law of thermodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 119, 72-74.	1.5	10
100	Closed forms for conformally flat Green's functions. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1981, 32, 78-80.	0.4	7