Richard H Price

List of Publications by Year
in descending order

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95	4,318	201674 27	106344 65
papers	citations	h-index	g-index

96	96	96	1878
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonspherical Perturbations of Relativistic Gravitational Collapse. I. Scalar and Gravitational Perturbations. Physical Review D, 1972, 5, 2419-2438.	4.7	740
2	Late-time behavior of stellar collapse and explosions. I. Linearized perturbations. Physical Review D, 1994, 49, 883-889.	4.7	388
3	Nonspherical Perturbations of Relativistic Gravitational Collapse. II. Integer-Spin, Zero-Rest-Mass Fields. Physical Review D, 1972, 5, 2439-2454.	4.7	322
4	Gravitational Radiation from a Particle Falling Radially into a Schwarzschild Black Hole. Physical Review Letters, 1971, 27, 1466-1469.	7.8	270
5	Membrane viewpoint on black holes: Properties and evolution of the stretched horizon. Physical Review D, 1986, 33, 915-941.	4.7	221
6	Colliding black holes: The close limit. Physical Review Letters, 1994, 72, 3297-3300.	7.8	192
7	Late-time behavior of stellar collapse and explosions. II. Nonlinear evolution. Physical Review D, 1994, 49, 890-899.	4.7	167
8	Pulsar Timing as a Probe of Nonâ€Einsteinian Polarizations of Gravitational Waves. Astrophysical Journal, 2008, 685, 1304-1319.	4.5	119
9	Head-on collision of two black holes: Comparison of different approaches. Physical Review D, 1995, 52, 4462-4480.	4.7	85
10	Colliding Black Holes: How Far Can the Close Approximation Go?. Physical Review Letters, 1996, 77, 4483-4486.	7.8	85
11	Nonexistence of conformally flat slices of the Kerr spacetime. Physical Review D, 2000, 61, .	4.7	85
12	DETECTING MASSIVE GRAVITONS USING PULSAR TIMING ARRAYS. Astrophysical Journal, 2010, 722, 1589-1597.	4.5	73
13	Head-on collisions of black holes: The particle limit. Physical Review D, 1997, 55, 2124-2138.	4.7	70
14	Applying black hole perturbation theory to numerically generated spacetimes. Physical Review D, 1996, 53, 1963-1971.	4.7	65
15	Understanding initial data for black hole collisions. Physical Review D, 1997, 56, 6439-6457.	4.7	65
16	Gravitational radiation from Schwarzschild black holes: the second-order perturbation formalism. Physics Reports, 2000, 325, 41-81.	25.6	65
17	Second-order perturbations of a Schwarzschild black hole. Classical and Quantum Gravity, 1996, 13, L117-L124.	4.0	62
18	Quantifying excitations of quasinormal mode systems. Journal of Mathematical Physics, 1999, 40, 980-1010.	1.1	62

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19	Evolving the Bowen-York initial data for spinning black holes. Physical Review D, 1998, 57, 3401-3407.	4.7	48
20	Excitation of quasinormal ringing of a Schwarzschild black hole. Physical Review D, 1988, 38, 1040-1052.	4.7	47
21	Gravitational wave sources: reflections and echoes. Classical and Quantum Gravity, 2017, 34, 225005.	4.0	45
22	Nonradial pulsations of stellar models in general relativity. Physical Review D, 1991, 43, 1768-1773.	4.7	41
23	Black-hole collisions from Brill-Lindquist initial data: Predictions of perturbation theory. Physical Review D, 1996, 53, 1972-1976.	4.7	41
24	Late-time tails in the Kerr spacetime. Classical and Quantum Gravity, 2008, 25, 072001.	4.0	39
25	Black hole ringing, quasinormal modes, and light rings. Physical Review D, 2017, 95, .	4.7	38
26	Head-on collisions of unequal mass black holes: Close-limit predictions. Physical Review D, 1997, 56, 6336-6350.	4.7	37
27	Modelling considerations for electrostatic forces in electrostatic microactuators. Sensors and Actuators, 1989, 20, 107-114.	1.7	36
28	Collision of boosted black holes: Second order close limit calculations. Physical Review D, 1999, 59, .	4.7	27
29	Initial data for superposed rotating black holes. Physical Review D, 1998, 58, .	4.7	26
30	Gauge invariant formalism for second order perturbations of Schwarzschild spacetimes. Physical Review D, 2000, 61, .	4.7	26
31	Model for the completeness of quasinormal modes of relativistic stellar oscillations. Physical Review Letters, 1992, 68, 1973-1976.	7.8	25
32	Field just outside a long solenoid. American Journal of Physics, 2001, 69, 751-754.	0.7	25
33	Nature of Gravitational Synchrotron Radiation. Physical Review Letters, 1972, 29, 185-188.	7.8	24
34	Tidal Interaction in Binary-Black-Hole Inspiral. Physical Review Letters, 2001, 87, 231101.	7.8	24
35	Late time tails from momentarily stationary, compact initial data in Schwarzschild spacetimes. Physical Review D, 2004, 70, .	4.7	23
36	Negative mass can be positively amusing. American Journal of Physics, 1993, 61, 216-217.	0.7	22

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37	Improved initial data for black hole collisions. Physical Review D, 1998, 57, 1073-1083.	4.7	22
38	Quasi-stationary binary inspiral: II. Radiation-balanced boundary conditions. Classical and Quantum Gravity, 2000, 17, 4895-4911.	4.0	22
39	Excitation of the odd parity quasinormal modes of compact objects. Physical Review D, 1999, 60, .	4.7	21
40	The conical resistor conundrum: A potential solution. American Journal of Physics, 1996, 64, 1150-1153.	0.7	20
41	A circular twin paradox. American Journal of Physics, 2000, 68, 1016-1020.	0.7	20
42	Radiation-balanced simulations for binary inspiral. Classical and Quantum Gravity, 2002, 19, 1285-1290.	4.0	19
43	Periodic standing-wave approximation: Overview and three-dimensional scalar models. Physical Review D, 2004, 70, .	4.7	19
44	Electromagnetic Radiation from an Unmoving Charge. Physical Review Letters, 1973, 31, 1018-1022.	7.8	17
45	General relativity primer. American Journal of Physics, 1982, 50, 300-329.	0.7	17
46	The lightningâ€rod fallacy. American Journal of Physics, 1985, 53, 843-848.	0.7	17
47	Aim high and go farâ€”Optimal projectile launch angles greater than 45Â°. American Journal of Physics, 1998, 66, 109-113.	0.7	17
48	Spatial curvature, spacetime curvature, and gravity. American Journal of Physics, 2016, 84, 588-592.	0.7	17
49	Excitation of Schwarzschild quasinormal modes by collapse. Physical Review D, 1990, 41, 2492-2506.	4.7	16
50	Multidomain spectral method for the helically reduced wave equation. Journal of Computational Physics, 2007, 227, 1126-1161.	3.8	16
51	Periodic standing-wave approximation: Nonlinear scalar fields, adapted coordinates, and the eigenspectral method. Physical Review D, 2005, 71, .	4.7	14
52	Periodic standing-wave approximation: Post-Minkowski computations. Physical Review D, 2007, 76, .	4.7	14
53	STRONG FIELD EFFECTS ON PULSAR ARRIVAL TIMES: GENERAL ORIENTATIONS. Astrophysical Journal, 2009, 705, 1252-1259.	4.5	14
54	In an expanding universe, what doesnâ€™t expand?. American Journal of Physics, 2012, 80, 376-381.	0.7	14

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55	Electromagnetic radiation due to spacetime oscillations. Physical Review D, 1975, 11, 747-759.	4.7	13
56	Zero time dilation in an accelerating rocket. American Journal of Physics, 1997, 65, 979-980.	0.7	13
57	Radiation content of conformally flat initial data. Physical Review D, 2004, 69, .	4.7	13
58	Radiation tails and boundary conditions for black hole evolutions. Physical Review D, 2004, 70, .	4.7	13
59	STRONG FIELD EFFECTS ON PULSAR ARRIVAL TIMES: CIRCULAR ORBITS AND EQUATORIAL BEAMS. Astrophysical Journal, 2009, 697, 237-246.	4.5	13
60	Sparse spectral-tau method for the three-dimensional helically reduced wave equation on two-center domains. Journal of Computational Physics, 2012, 231, 7695-7714.	3.8	13
61	Embedding initial data for black-hole collisions. Classical and Quantum Gravity, 1995, 12, 875-893.	4.0	12
62	Formation of a Rotating Black Hole from a Close-Limit Head-On Collision. Physical Review Letters, 1999, 82, 1358-1361.	7.8	12
63	Binary inspiral: finding the right approximation. Classical and Quantum Gravity, 2004, 21, S281-S293.	4.0	12
64	Periodic standing-wave approximation: Eigenspectral computations for linear gravity and nonlinear toy models. Physical Review D, 2006, 74, .	4.7	12
65	Comment on â€œOn the optimal angle of projection in general media,â€•by C. W. Groetsch [Am. J. Phys. 65 (8), 797â€“799 (1997)]. American Journal of Physics, 1998, 66, 114-114.	0.7	11
66	Role of Constraining Forces for Ultrarelativistic Particle Motion as a Source of Gravitational Radiation. Physical Review D, 1973, 8, 1640-1644.	4.7	10
67	Relation of gauge formalisms for pulsations of general-relativistic stellar models. Physical Review D, 1991, 44, 307-313.	4.7	10
68	Scalar fields in black hole spacetimes. Physical Review D, 2017, 96, .	4.7	10
69	Ballistic trajectory: Parabola, ellipse, or what?. American Journal of Physics, 2005, 73, 516-520.	0.7	9
70	Periodic standing-wave approximation: Computations in full general relativity. Physical Review D, 2009, 79, .	4.7	9
71	Black hole binary inspiral: Analysis of the plunge. Physical Review D, 2016, 93, .	4.7	9
72	DETECTION OF PULSAR BEAMS DEFLECTED BY THE BLACK HOLE IN SGR A*: EFFECTS OF BLACK HOLE SPIN. Astrophysical Journal, 2013, 778, 145.	4.5	8

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73	Escape of gravitational radiation from the field of massive bodies. Physical Review Letters, 1993, 70, 1572-1575.	7.8	7
74	Cosmological expansion in the classroom. American Journal of Physics, 2001, 69, 125-128.	0.7	5
75	Projectiles, pendula, and special relativity. American Journal of Physics, 2005, 73, 433-438.	0.7	5
76	OBSERVABILITY OF PULSAR BEAM BENDING BY THE Sgr A* BLACK HOLE. Astrophysical Journal, 2012, 744, 143.	4.5	5
77	Black hole binary inspiral and trajectory dominance. Physical Review D, 2013, 88, .	4.7	5
78	Emergence of radiation from gravitational potential wells: The absence ofÏ‰Meffects. Physical Review D, 1992, 46, 2497-2506.	4.7	4
79	The weight of time. Physics Teacher, 1998, 36, 432-434.	0.3	4
80	PULSAR TIMING AND SPACETIME CURVATURE. Astrophysical Journal, 2009, 693, 1113-1117.	4.5	4
81	The Lorentz transformation: Simplification through complexification. American Journal of Physics, 2010, 78, 14-19.	0.7	4
82	Arrival times of gravitational radiation peaks for binary inspiral. Physical Review D, 2016, 94, .	4.7	4
83	The paradox of the tight spiral pass in American football: A simple resolution. American Journal of Physics, 2020, 88, 704-710.	0.7	4
84	Some Developments in Black Hole Astrophysics. Annals of the New York Academy of Sciences, 1991, 631, 235-245.	3.8	3
85	Newman-Penrose Stokes fields for radio astronomy. Physical Review D, 2010, 82, .	4.7	3
86	Properties of spatial wormholes and other splittable spacetimes. Physical Review D, 2016, 93, .	4.7	3
87	In-depth problems for collaborative learning. AIP Conference Proceedings, 1997, , .	0.4	2
88	The paradox of the tight spiral pass in American football: Insights from an analytic approximate solution. American Journal of Physics, 2020, 88, 753-756.	0.7	2
89	Sparse Modal Tau-Method for Helical Binary Neutron Stars. Lecture Notes in Computational Science and Engineering, 2015, , 315-323.	0.3	2
90	Shell sources as a probe of relativistic effects in neutron star models. Physical Review D, 2000, 62, .	4.7	1

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91	Letter: Normal Forces in Stationary Spacetimes. General Relativity and Gravitation, 2004, 36, 2171-2173.	2.0	1
92	The creation and propagation of radiation: Fields inside and outside of sources. American Journal of Physics, 2012, 80, 321-328.	0.7	1
93	Helically Reduced Wave Equations and Binary Neutron Stars. Lecture Notes in Computational Science and Engineering, 2017, , 369-382.	0.3	1
94	Paradox and resolution in electrostatics. American Journal of Physics, 1977, 45, 645-648.	0.7	0
95	THE PHYSICAL BASIS OF BLACK HOLE ASTROPHYSICS. , 2005, , 124-151.		0