

# Richard H Price

## List of Publications by Year in descending order

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95  
papers

4,318  
citations

201674

27  
h-index

106344

65  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1878  
citing authors

#	ARTICLE	IF	CITATIONS
1	The paradox of the tight spiral pass in American football: A simple resolution. American Journal of Physics, 2020, 88, 704-710.	0.7	4
2	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
3	Black hole ringing, quasinormal modes, and light rings. Physical Review D, 2017, 95, .	4.7	38
4	Gravitational wave sources: reflections and echoes. Classical and Quantum Gravity, 2017, 34, 225005.	4.0	45
5	Scalar fields in black hole spacetimes. Physical Review D, 2017, 96, .	4.7	10
6	Helically Reduced Wave Equations and Binary Neutron Stars. Lecture Notes in Computational Science and Engineering, 2017, , 369-382.	0.3	1
7	Spatial curvature, spacetime curvature, and gravity. American Journal of Physics, 2016, 84, 588-592.	0.7	17
8	Properties of spatial wormholes and other splittable spacetimes. Physical Review D, 2016, 93, .	4.7	3
9	Black hole binary inspiral: Analysis of the plunge. Physical Review D, 2016, 93, .	4.7	9
10	Arrival times of gravitational radiation peaks for binary inspiral. Physical Review D, 2016, 94, .	4.7	4
11	Sparse Modal Tau-Method for Helical Binary Neutron Stars. Lecture Notes in Computational Science and Engineering, 2015, , 315-323.	0.3	2
12	Black hole binary inspiral and trajectory dominance. Physical Review D, 2013, 88, .	4.7	5
13	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
14	The creation and propagation of radiation: Fields inside and outside of sources. American Journal of Physics, 2012, 80, 321-328.	0.7	1
15	In an expanding universe, what doesn't expand?. American Journal of Physics, 2012, 80, 376-381.	0.7	14
16	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
17	OBSERVABILITY OF PULSAR BEAM BENDING BY THE Sgr A* BLACK HOLE. Astrophysical Journal, 2012, 744, 143.	4.5	5
18	The Lorentz transformation: Simplification through complexification. American Journal of Physics, 2010, 78, 14-19.	0.7	4

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19	Newman-Penrose Stokes fields for radio astronomy. <i>Physical Review D</i> , 2010, 82, .	4.7	3
20	DETECTING MASSIVE GRAVITONS USING PULSAR TIMING ARRAYS. <i>Astrophysical Journal</i> , 2010, 722, 1589-1597.	4.5	73
21	STRONG FIELD EFFECTS ON PULSAR ARRIVAL TIMES: CIRCULAR ORBITS AND EQUATORIAL BEAMS. <i>Astrophysical Journal</i> , 2009, 697, 237-246.	4.5	13
22	STRONG FIELD EFFECTS ON PULSAR ARRIVAL TIMES: GENERAL ORIENTATIONS. <i>Astrophysical Journal</i> , 2009, 705, 1252-1259.	4.5	14
23	PULSAR TIMING AND SPACETIME CURVATURE. <i>Astrophysical Journal</i> , 2009, 693, 1113-1117.	4.5	4
24	Periodic standing-wave approximation: Computations in full general relativity. <i>Physical Review D</i> , 2009, 79, .	4.7	9
25	Late-time tails in the Kerr spacetime. <i>Classical and Quantum Gravity</i> , 2008, 25, 072001.	4.0	39
26	Pulsar Timing as a Probe of Non-Einsteinian Polarizations of Gravitational Waves. <i>Astrophysical Journal</i> , 2008, 685, 1304-1319.	4.5	119
27	Periodic standing-wave approximation: Post-Minkowski computations. <i>Physical Review D</i> , 2007, 76, .	4.7	14
28	Multidomain spectral method for the helically reduced wave equation. <i>Journal of Computational Physics</i> , 2007, 227, 1126-1161.	3.8	16
29	Periodic standing-wave approximation: Eigenspectral computations for linear gravity and nonlinear toy models. <i>Physical Review D</i> , 2006, 74, .	4.7	12
30	Projectiles, pendula, and special relativity. <i>American Journal of Physics</i> , 2005, 73, 433-438.	0.7	5
31	THE PHYSICAL BASIS OF BLACK HOLE ASTROPHYSICS. , 2005, , 124-151.		0
32	Periodic standing-wave approximation: Nonlinear scalar fields, adapted coordinates, and the eigenspectral method. <i>Physical Review D</i> , 2005, 71, .	4.7	14
33	Ballistic trajectory: Parabola, ellipse, or what?. <i>American Journal of Physics</i> , 2005, 73, 516-520.	0.7	9
34	Binary inspiral: finding the right approximation. <i>Classical and Quantum Gravity</i> , 2004, 21, S281-S293.	4.0	12
35	Late time tails from momentarily stationary, compact initial data in Schwarzschild spacetimes. <i>Physical Review D</i> , 2004, 70, .	4.7	23
36	Radiation content of conformally flat initial data. <i>Physical Review D</i> , 2004, 69, .	4.7	13

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37	Radiation tails and boundary conditions for black hole evolutions. <i>Physical Review D</i> , 2004, 70, .	4.7	13
38	Periodic standing-wave approximation: Overview and three-dimensional scalar models. <i>Physical Review D</i> , 2004, 70, .	4.7	19
39	Letter: Normal Forces in Stationary Spacetimes. <i>General Relativity and Gravitation</i> , 2004, 36, 2171-2173.	2.0	1
40	Radiation-balanced simulations for binary inspiral. <i>Classical and Quantum Gravity</i> , 2002, 19, 1285-1290.	4.0	19
41	Field just outside a long solenoid. <i>American Journal of Physics</i> , 2001, 69, 751-754.	0.7	25
42	Cosmological expansion in the classroom. <i>American Journal of Physics</i> , 2001, 69, 125-128.	0.7	5
43	Tidal Interaction in Binary-Black-Hole Inspiral. <i>Physical Review Letters</i> , 2001, 87, 231101.	7.8	24
44	Gravitational radiation from Schwarzschild black holes: the second-order perturbation formalism. <i>Physics Reports</i> , 2000, 325, 41-81.	25.6	65
45	Quasi-stationary binary inspiral: II. Radiation-balanced boundary conditions. <i>Classical and Quantum Gravity</i> , 2000, 17, 4895-4911.	4.0	22
46	Shell sources as a probe of relativistic effects in neutron star models. <i>Physical Review D</i> , 2000, 62, .	4.7	1
47	Nonexistence of conformally flat slices of the Kerr spacetime. <i>Physical Review D</i> , 2000, 61, .	4.7	85
48	Gauge invariant formalism for second order perturbations of Schwarzschild spacetimes. <i>Physical Review D</i> , 2000, 61, .	4.7	26
49	A circular twin paradox. <i>American Journal of Physics</i> , 2000, 68, 1016-1020.	0.7	20
50	Formation of a Rotating Black Hole from a Close-Limit Head-On Collision. <i>Physical Review Letters</i> , 1999, 82, 1358-1361.	7.8	12
51	Quantifying excitations of quasinormal mode systems. <i>Journal of Mathematical Physics</i> , 1999, 40, 980-1010.	1.1	62
52	Collision of boosted black holes: Second order close limit calculations. <i>Physical Review D</i> , 1999, 59, .	4.7	27
53	Excitation of the odd parity quasinormal modes of compact objects. <i>Physical Review D</i> , 1999, 60, .	4.7	21
54	Aim high and go far—Optimal projectile launch angles greater than 45°. <i>American Journal of Physics</i> , 1998, 66, 109-113.	0.7	17

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55	Comment on "On the optimal angle of projection in general media," by C. W. Groetsch [Am. J. Phys. 65 (8), 797-799 (1997)]. American Journal of Physics, 1998, 66, 114-114.	0.7	11
56	Improved initial data for black hole collisions. Physical Review D, 1998, 57, 1073-1083.	4.7	22
57	Evolving the Bowen-York initial data for spinning black holes. Physical Review D, 1998, 57, 3401-3407.	4.7	48
58	Initial data for superposed rotating black holes. Physical Review D, 1998, 58, .	4.7	26
59	The weight of time. Physics Teacher, 1998, 36, 432-434.	0.3	4
60	Head-on collisions of black holes: The particle limit. Physical Review D, 1997, 55, 2124-2138.	4.7	70
61	Understanding initial data for black hole collisions. Physical Review D, 1997, 56, 6439-6457.	4.7	65
62	Head-on collisions of unequal mass black holes: Close-limit predictions. Physical Review D, 1997, 56, 6336-6350.	4.7	37
63	In-depth problems for collaborative learning. AIP Conference Proceedings, 1997, , .	0.4	2
64	Zero time dilation in an accelerating rocket. American Journal of Physics, 1997, 65, 979-980.	0.7	13
65	The conical resistor conundrum: A potential solution. American Journal of Physics, 1996, 64, 1150-1153.	0.7	20
66	Black-hole collisions from Brill-Lindquist initial data: Predictions of perturbation theory. Physical Review D, 1996, 53, 1972-1976.	4.7	41
67	Colliding Black Holes: How Far Can the Close Approximation Go?. Physical Review Letters, 1996, 77, 4483-4486.	7.8	85
68	Applying black hole perturbation theory to numerically generated spacetimes. Physical Review D, 1996, 53, 1963-1971.	4.7	65
69	Second-order perturbations of a Schwarzschild black hole. Classical and Quantum Gravity, 1996, 13, L117-L124.	4.0	62
70	Head-on collision of two black holes: Comparison of different approaches. Physical Review D, 1995, 52, 4462-4480.	4.7	85
71	Embedding initial data for black-hole collisions. Classical and Quantum Gravity, 1995, 12, 875-893.	4.0	12
72	Late-time behavior of stellar collapse and explosions. I. Linearized perturbations. Physical Review D, 1994, 49, 883-889.	4.7	388

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73	Colliding black holes: The close limit. <i>Physical Review Letters</i> , 1994, 72, 3297-3300.	7.8	192
74	Late-time behavior of stellar collapse and explosions. II. Nonlinear evolution. <i>Physical Review D</i> , 1994, 49, 890-899.	4.7	167
75	Negative mass can be positively amusing. <i>American Journal of Physics</i> , 1993, 61, 216-217.	0.7	22
76	Escape of gravitational radiation from the field of massive bodies. <i>Physical Review Letters</i> , 1993, 70, 1572-1575.	7.8	7
77	Emergence of radiation from gravitational potential wells: The absence of effects. <i>Physical Review D</i> , 1992, 46, 2497-2506.	4.7	4
78	Model for the completeness of quasinormal modes of relativistic stellar oscillations. <i>Physical Review Letters</i> , 1992, 68, 1973-1976.	7.8	25
79	Some Developments in Black Hole Astrophysics. <i>Annals of the New York Academy of Sciences</i> , 1991, 631, 235-245.	3.8	3
80	Relation of gauge formalisms for pulsations of general-relativistic stellar models. <i>Physical Review D</i> , 1991, 44, 307-313.	4.7	10
81	Nonradial pulsations of stellar models in general relativity. <i>Physical Review D</i> , 1991, 43, 1768-1773.	4.7	41
82	Excitation of Schwarzschild quasinormal modes by collapse. <i>Physical Review D</i> , 1990, 41, 2492-2506.	4.7	16
83	Modelling considerations for electrostatic forces in electrostatic microactuators. <i>Sensors and Actuators</i> , 1989, 20, 107-114.	1.7	36
84	Excitation of quasinormal ringing of a Schwarzschild black hole. <i>Physical Review D</i> , 1988, 38, 1040-1052.	4.7	47
85	Membrane viewpoint on black holes: Properties and evolution of the stretched horizon. <i>Physical Review D</i> , 1986, 33, 915-941.	4.7	221
86	The lightning-rod fallacy. <i>American Journal of Physics</i> , 1985, 53, 843-848.	0.7	17
87	General relativity primer. <i>American Journal of Physics</i> , 1982, 50, 300-329.	0.7	17
88	Paradox and resolution in electrostatics. <i>American Journal of Physics</i> , 1977, 45, 645-648.	0.7	0
89	Electromagnetic radiation due to spacetime oscillations. <i>Physical Review D</i> , 1975, 11, 747-759.	4.7	13
90	Electromagnetic Radiation from an Unmoving Charge. <i>Physical Review Letters</i> , 1973, 31, 1018-1022.	7.8	17

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91	Role of Constraining Forces for Ultrarelativistic Particle Motion as a Source of Gravitational Radiation. <i>Physical Review D</i> , 1973, 8, 1640-1644.	4.7	10
92	Nature of Gravitational Synchrotron Radiation. <i>Physical Review Letters</i> , 1972, 29, 185-188.	7.8	24
93	Nonspherical Perturbations of Relativistic Gravitational Collapse. II. Integer-Spin, Zero-Rest-Mass Fields. <i>Physical Review D</i> , 1972, 5, 2439-2454.	4.7	322
94	Nonspherical Perturbations of Relativistic Gravitational Collapse. I. Scalar and Gravitational Perturbations. <i>Physical Review D</i> , 1972, 5, 2419-2438.	4.7	740
95	Gravitational Radiation from a Particle Falling Radially into a Schwarzschild Black Hole. <i>Physical Review Letters</i> , 1971, 27, 1466-1469.	7.8	270