Benjamin J Owen

List of Publications by Year
in descending order

43 papers	4,552 citations	201575 27 h-index	243529 44 g-index
45 all docs	45 docs citations	45 times ranked	3514 citing authors

#	Article	IF	Citations
1	Constraints on a phenomenologically parametrized neutron-star equation of state. Physical Review D, 2009, 79, .	1.6	592
2	Search templates for gravitational waves from inspiraling binaries: Choice of template spacing. Physical Review D, 1996, 53, 6749-6761.	1.6	384
3	Gravitational waves from hot young rapidly rotating neutron stars. Physical Review D, 1998, 58, .	1.6	367
4	Gravitational Radiation Instability in Hot Young Neutron Stars. Physical Review Letters, 1998, 80, 4843-4846.	2.9	351
5	Matched filtering of gravitational waves from inspiraling compact binaries: Computational cost and template placement. Physical Review D, 1999, 60, .	1.6	326
6	Cleavage and hydrodeoxygenation (HDO) of Câ€“O bonds relevant to lignin conversion using Pd/Zn synergistic catalysis. Chemical Science, 2013, 4, 806-813.	3.7	294
7	Model waveform accuracy standards for gravitational wave data analysis. Physical Review D, 2008, 78, .	1.6	233
8	Maximum Elastic Deformations of Compact Stars with Exotic Equations of State. Physical Review Letters, 2005, 95, 211101.	2.9	190
9	Observational constraints on hyperons in neutron stars. Physical Review D, 2006, 73, .	1.6	151
10	Maximum elastic deformations of relativistic stars. Physical Review D, 2013, 88, .	1.6	135
11	Gravitational waves from inspiraling compact binaries: Validity of the stationary-phase approximation to the Fourier transform. Physical Review D, 1999, 59, .	1.6	134
12	Effect of hyperon bulk viscosity on neutron-starr-modes. Physical Review D, 2002, 65, .	1.6	133
13	Gravitational field and equations of motion of spinning compact binaries to 2.5 post-Newtonian order. Physical Review D, 2001, 63, .	1.6	131
14	Second-order rotational effects on ther-modes of neutron stars. Physical Review D, 1999, 60, .	1.6	95
15	High-Performance Liquid Chromatography/High-Resolution Multiple Stage Tandem Mass Spectrometry Using Negative-Ion-Mode Hydroxide-Doped Electrospray Ionization for the Characterization of Lignin Degradation Products. Analytical Chemistry, 2012, 84, 6000-6007.	3.2	94
16	Effect of a neutron-star crust on the r-mode instability. Physical Review D, 2000, 62, .	1.6	82
17	How to adapt broad-band gravitational-wave searches for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi></mml:math>-modes. Physical Review D, 2010, 82, .	1.6	82
18	Characterization of organosolv switchgrass lignin by using high performance liquid chromatography/high resolution tandem mass spectrometry using hydroxide-doped negative-ion mode electrospray ionization. Green Chemistry, 2014, 16, 2713-2727.	4.6	78

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19	R-modes of accreting hyperon stars as persistent sources of gravitational waves. Physical Review D, 2006, 73, .	1.6	77
20	Testing gravitational parity violation with coincident gravitational waves and short gamma-ray bursts. Physical Review D, 2010, 82, .	1.6	68
21	Maximum gravitational-wave energy emissible in magnetar flares. Physical Review D, 2011, 83, .	1.6	57
22	Binary black hole initial data from matched asymptotic expansions. Physical Review D, 2006, 74, .	1.6	52
23	Conformally curved binary black hole initial data including tidal deformations and outgoing radiation. Physical Review D, 2009, 80, .	1.6	49
24	Characterization of model compounds of processed lignin and the lignome by using atmospheric pressure ionization tandem mass spectrometry. Fuel, 2012, 95, 634-641.	3.4	47
25	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml:math>-mode frequencies of slowly rotating relativistic neutron stars with realistic equations of state. Physical Review D, 2015, 91, .	1.6	47
26	Nonprecessional spin-orbit effects on gravitational waves from inspiraling compact binaries to second post-Newtonian order. Physical Review D, 1998, 57, 6168-6175.	1.6	36
27	Carbon disulfide reagent allows the characterization of nonpolar analytes by atmospheric pressure chemical ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 1924-1928.	0.7	29
28	Gravitational radiation from the r -mode instability. Classical and Quantum Gravity, 2002, 19, 1247-1253.	1.5	26
29	How to search for gravitational waves from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi></mml:math> -modes of known pulsars. Physical Review D, 2019, 100, .	1.6	25
30	Improved time-domain accuracy standards for model gravitational waveforms. Physical Review D, 2010, 82, .	1.6	23
31	Directed searches for continuous gravitational waves from twelve supernova remnants in data from Advanced LIGOâ€™s second observing run. Physical Review D, 2020, 101, .	1.6	21
32	Constraints on r-modes and Mountains on Millisecond Neutron Stars in Binary Systems. Astrophysical Journal Letters, 2022, 929, L19.	3.0	18
33	Detectability of periodic gravitational waves by initial interferometers. Classical and Quantum Gravity, 2006, 23, S1-S7.	1.5	16
34	Cross-correlation method for intermediate-duration gravitational wave searches associated with gamma-ray bursts. Physical Review D, 2016, 93, .	1.6	16
35	A Fundamental Tandem Mass Spectrometry Study of the Collisionâ€Activated Dissociation of Small Deprotonated Molecules Related to Lignin. ChemSusChem, 2016, 9, 3513-3526.	3.6	15
36	Differentiation of Regioisomeric Aromatic Ketocarboxylic Acids by Positive Mode Atmospheric Pressure Chemical Ionization Collision-Activated Dissociation Tandem Mass Spectrometry in a Linear Quadrupole Ion Trap Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2011, 22, 670-682.	1.2	14

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37	How photon astronomy affects searches for continuous gravitational waves. Classical and Quantum Gravity, 2009, 26, 204014.	1.5	12
38	Identification and Counting of Oxygen Functionalities and Alkyl Groups of Aromatic Analytes in Mixtures by Positive-Mode Atmospheric Pressure Chemical Ionization Tandem Mass Spectrometry Coupled with High-Performance Liquid Chromatography. Energy & Fuels, 2012, 26, 2975-2989.	2.5	12
39	Parameter space metric for 3.5 post-Newtonian gravitational waves from compact binary inspirals. Physical Review D, 2013, 88, .	1.6	10
40	First searches for gravitational waves from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi></mml:math> -modes of the Crab pulsar. Physical Review D, 2021, 104, .	1.6	10
41	Shear modulus of the hadron-quark mixed phase. Physical Review D, 2012, 86, .	1.6	9
42	Laser-Induced Acoustic Desorption/Electron Ionization of Amino Acids and Small Peptides. Journal of the American Society for Mass Spectrometry, 2017, 28, 1091-1098.	1.2	7
43	Gravitational waves from the r-modes of rapidly rotating neutron stars. AIP Conference Proceedings, 2000, , .	0.3	0