

Benjamin J Owen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

3,779
citations

26
h-index

45
g-index

45
ext. papers

4,221
ext. citations

5.2
avg, IF

5.54
L-index

#	Paper	IF	Citations
42	Constraints on a phenomenologically parametrized neutron-star equation of state. <i>Physical Review D</i> , 2009 , 79,	4.9	450
41	Gravitational waves from hot young rapidly rotating neutron stars. <i>Physical Review D</i> , 1998 , 58,	4.9	327
40	Search templates for gravitational waves from inspiraling binaries: Choice of template spacing. <i>Physical Review D</i> , 1996 , 53, 6749-6761	4.9	317
39	Gravitational Radiation Instability in Hot Young Neutron Stars. <i>Physical Review Letters</i> , 1998 , 80, 4843-4846	4.9	315
38	Cleavage and hydrodeoxygenation (HDO) of C-D bonds relevant to lignin conversion using Pd/Zn synergistic catalysis. <i>Chemical Science</i> , 2013 , 4, 806-813	9.4	262
37	Matched filtering of gravitational waves from inspiraling compact binaries: Computational cost and template placement. <i>Physical Review D</i> , 1999 , 60,	4.9	247
36	Maximum elastic deformations of compact stars with exotic equations of state. <i>Physical Review Letters</i> , 2005 , 95, 211101	7.4	168
35	Model waveform accuracy standards for gravitational wave data analysis. <i>Physical Review D</i> , 2008 , 78,	4.9	158
34	Effect of hyperon bulk viscosity on neutron-star r-modes. <i>Physical Review D</i> , 2002 , 65,	4.9	124
33	Observational constraints on hyperons in neutron stars. <i>Physical Review D</i> , 2006 , 73,	4.9	119
32	Gravitational waves from inspiraling compact binaries: Validity of the stationary-phase approximation to the Fourier transform. <i>Physical Review D</i> , 1999 , 59,	4.9	116
31	Maximum elastic deformations of relativistic stars. <i>Physical Review D</i> , 2013 , 88,	4.9	113
30	Gravitational field and equations of motion of spinning compact binaries to 2.5 post-Newtonian order. <i>Physical Review D</i> , 2001 , 63,	4.9	103
29	Second-order rotational effects on the r-modes of neutron stars. <i>Physical Review D</i> , 1999 , 60,	4.9	89
28	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. <i>Analytical Chemistry</i> , 2012 , 84, 6000-7	7.8	85
27	Effect of a neutron-star crust on the r-mode instability. <i>Physical Review D</i> , 2000 , 62,	4.9	77
26	R-modes of accreting hyperon stars as persistent sources of gravitational waves. <i>Physical Review D</i> , 2006 , 73,	4.9	71

25	Characterization of organosolv switchgrass lignin by using high performance liquid chromatography/high resolution tandem mass spectrometry using hydroxide-doped negative-ion mode electrospray ionization. <i>Green Chemistry</i> , 2014 , 16, 2713-2727	10	69
24	How to adapt broad-band gravitational-wave searches for r-modes. <i>Physical Review D</i> , 2010 , 82,	4.9	68
23	Binary black hole initial data from matched asymptotic expansions. <i>Physical Review D</i> , 2006 , 74,	4.9	50
22	Testing gravitational parity violation with coincident gravitational waves and short gamma-ray bursts. <i>Physical Review D</i> , 2010 , 82,	4.9	49
21	Maximum gravitational-wave energy emissible in magnetar flares. <i>Physical Review D</i> , 2011 , 83,	4.9	49
20	Conformally curved binary black hole initial data including tidal deformations and outgoing radiation. <i>Physical Review D</i> , 2009 , 80,	4.9	45
19	Characterization of model compounds of processed lignin and the lignome by using atmospheric pressure ionization tandem mass spectrometry. <i>Fuel</i> , 2012 , 95, 634-641	7.1	41
18	Nonprecessional spin-orbit effects on gravitational waves from inspiraling compact binaries to second post-Newtonian order. <i>Physical Review D</i> , 1998 , 57, 6168-6175	4.9	35
17	R-mode frequencies of slowly rotating relativistic neutron stars with realistic equations of state. <i>Physical Review D</i> , 2015 , 91,	4.9	33
16	Gravitational radiation from the r -mode instability. <i>Classical and Quantum Gravity</i> , 2002 , 19, 1247-1253	3.3	26
15	Carbon disulfide reagent allows the characterization of nonpolar analytes by atmospheric pressure chemical ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 1924-8	2.2	24
14	Improved time-domain accuracy standards for model gravitational waveforms. <i>Physical Review D</i> , 2010 , 82,	4.9	20
13	How to search for gravitational waves from r-modes of known pulsars. <i>Physical Review D</i> , 2019 , 100,	4.9	18
12	Detectability of periodic gravitational waves by initial interferometers. <i>Classical and Quantum Gravity</i> , 2006 , 23, S1-S7	3.3	16
11	Directed searches for continuous gravitational waves from twelve supernova remnants in data from Advanced LIGO's second observing run. <i>Physical Review D</i> , 2020 , 101,	4.9	13
10	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 670-82	3.5	12
9	How photon astronomy affects searches for continuous gravitational waves. <i>Classical and Quantum Gravity</i> , 2009 , 26, 204014	3.3	12
8	Cross-correlation method for intermediate-duration gravitational wave searches associated with gamma-ray bursts. <i>Physical Review D</i> , 2016 , 93,	4.9	11

7	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. <i>Energy & Fuels</i> , 2012 , 26, 2975-2989	4.1	11
6	A Fundamental Tandem Mass Spectrometry Study of the Collision-Activated Dissociation of Small Deprotonated Molecules Related to Lignin. <i>ChemSusChem</i> , 2016 , 9, 3513-3526	8.3	10
5	Parameter space metric for 3.5 post-Newtonian gravitational waves from compact binary inspirals. <i>Physical Review D</i> , 2013 , 88,	4.9	8
4	Shear modulus of the hadron-quark mixed phase. <i>Physical Review D</i> , 2012 , 86,	4.9	7
3	Laser-Induced Acoustic Desorption/Electron Ionization of Amino Acids and Small Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1091-1098	3.5	5
2	First searches for gravitational waves from r -modes of the Crab pulsar. <i>Physical Review D</i> , 2021 , 104,	4.9	2
1	Constraints on r-modes and Mountains on Millisecond Neutron Stars in Binary Systems. <i>Astrophysical Journal Letters</i> , 2022 , 929, L19	7.9	1