

Carlos Andres Peralta Aros

List of Publications by Year in descending order

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45
papers

4,709
citations

186265

28
h-index

243625

44
g-index

46
all docs

46
docs citations

46
times ranked

4247
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2010, 27, 173001.	4.0	956
2	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013, 7, 613-619.	31.4	825
3	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011, 7, 962-965.	16.7	716
4	Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. <i>Physical Review D</i> , 2012, 85, .	4.7	185
5	Avalanche Dynamics of Radio Pulsar Glitches. <i>Astrophysical Journal</i> , 2008, 672, 1103-1118.	4.5	141
6	Calibration of the LIGO gravitational wave detectors in the fifth science run. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 624, 223-240.	1.6	120
7	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , 2010, 82, .	4.7	111
8	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. <i>Physical Review D</i> , 2010, 81, .	4.7	107
9	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010, 722, 1504-1513.	4.5	104
10	Transitions between Turbulent and Laminar Superfluid Vorticity States in the Outer Core of a Neutron Star. <i>Astrophysical Journal</i> , 2006, 651, 1079-1091.	4.5	97
11	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. <i>Physical Review Letters</i> , 2011, 107, 271102.	7.8	94
12	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. <i>Astrophysical Journal</i> , 2010, 715, 1453-1461.	4.5	90
13	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011, 737, 93.	4.5	89
14	Accounting for initial condition uncertainties in COSMO-DEEPS. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	89
15	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011, 83, .	4.7	85
16	A review of computational fluid dynamics (CFD) simulations of the wind flow around buildings for urban wind energy exploitation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 180, 66-87.	3.9	85
17	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012, 539, A124.	5.1	84
18	Roof region dependent wind potential assessment with different RANS turbulence models. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 142, 258-271.	3.9	73

#	ARTICLE	IF	CITATIONS
19	Global Three-dimensional Flow of a Neutron Superfluid in a Spherical Shell in a Neutron Star. <i>Astrophysical Journal</i> , 2005, 635, 1224-1232.	4.5	70
20	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012, 85, .	4.7	66
21	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 755, 2.	4.5	60
22	Superfluid Turbulence and Pulsar Glitch Statistics. <i>Astrophysical Journal</i> , 2007, 662, L99-L102.	4.5	55
23	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011, 734, L35.	8.3	55
24	Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar. <i>Physical Review D</i> , 2011, 83, .	4.7	54
25	An empirical heuristic optimization of the building-roof geometry for urban wind energy exploitation on high-rise buildings. <i>Applied Energy</i> , 2016, 164, 769-794.	10.1	50
26	GRAVITATIONAL RADIATION FROM HYDRODYNAMIC TURBULENCE IN A DIFFERENTIALLY ROTATING NEUTRON STAR. <i>Astrophysical Journal</i> , 2010, 709, 77-87.	4.5	33
27	Effect of roof-mounted solar panels on the wind energy exploitation on high-rise buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 145, 123-138.	3.9	33
28	Gravitational Radiation from Nonaxisymmetric Spherical Couette Flow in a Neutron Star. <i>Astrophysical Journal</i> , 2006, 644, L53-L56.	4.5	31
29	Superfluid spherical Couette flow. <i>Journal of Fluid Mechanics</i> , 2008, 609, 221-274.	3.4	25
30	On Roof Geometry for Urban Wind Energy Exploitation in High-Rise Buildings. <i>Computation</i> , 2015, 3, 299-325.	2.0	23
31	Micro-scale model comparison (benchmark) at the moderately complex forested site RyningsnÅs. <i>Wind Energy Science</i> , 2018, 3, 929-946.	3.3	20
32	AN UNSTABLE SUPERFLUID STEWARTSON LAYER IN A DIFFERENTIALLY ROTATING NEUTRON STAR. <i>Astrophysical Journal</i> , 2009, 701, L75-L78.	4.5	19
33	IEA-Task 31 WAKEBENCH: Towards a protocol for wind farm flow model evaluation. Part 1: Flow-over-terrain models. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012105.	0.4	17
34	Nonadiabatic charged spherical evolution in the postquasistatic approximation. <i>Physical Review D</i> , 2010, 82, .	4.7	11
35	Shear viscosity in the postquasistatic approximation. <i>Physical Review D</i> , 2010, 81, .	4.7	5
36	Computational fluid dynamics simulation and full-scale experimental model inter-comparison of the wind flow around a university campus. <i>Wind Engineering</i> , 2017, 41, 43-54.	1.9	4

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37	Superfluid spherical Couette flow. <i>Journal of Physics: Conference Series</i> , 2009, 150, 032081.	0.4	3
38	Publisher's Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D 81 (2010)]. <i>Physical Review D</i> , 2012, 85, .	4.7	3
39	Heat flow in the postquasistatic approximation. <i>Physical Review D</i> , 2010, 82, .	4.7	2
40	Publisher's Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D 83, 042001 (2011)]. <i>Physical Review D</i> , 2012, 85, .	4.7	2
41	Publisher's Note: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 [Phys. Rev. D 82, 102001 (2010)]. <i>Physical Review D</i> , 2012, 85, .	4.7	2
42	Relativistic gravitational deflection of photons. <i>Radiation Physics and Chemistry</i> , 2002, 65, 105-107.	2.8	1
43	Wind Power Energy in Southern Brazil: Evaluation using a Mesoscale Meteorological Model. <i>Energy Procedia</i> , 2015, 76, 164-168.	1.8	1
44	Publisher's Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D 83, 042001 (2011)]. <i>Physical Review D</i> , 2011, 83, .	4.7	0
45	Publisher's Note: Search for gravitational waves from binary black hole inspiral, merger, and ringdown [Phys. Rev. D 83, 122005 (2011)]. <i>Physical Review D</i> , 2012, 85, .	4.7	0