

Antonio Marquina

List of Publications by Year in Descending Order

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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.

136 papers	21,172 citations	50 h-index	140 g-index
140 ext. papers	27,979 ext. citations	5 avg, IF	5.54 L-index

#	Paper	IF	Citations
136	Calibration of advanced Virgo and reconstruction of the detector strain $h(t)$ during the observing run O3. <i>Classical and Quantum Gravity</i> , 2022 , 39, 045006	3.3	2
135	All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2021 , 104,	4.9	4
134	Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021 , 921, 80	4.7	10
133	Constraints from LIGO O3 Data on Gravitational-wave Emission Due to R-modes in the Glitching Pulsar PSR J0537-6910. <i>Astrophysical Journal</i> , 2021 , 922, 71	4.7	8
132	All-sky search for long-duration gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2021 , 104,	4.9	1
131	All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data. <i>Physical Review D</i> , 2021 , 104,	4.9	15
130	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021 , 909, 218	4.7	46
129	All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems. <i>Physical Review D</i> , 2021 , 103,	4.9	15
128	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. <i>Astrophysical Journal Letters</i> , 2021 , 913, L27	7.9	13
127	Population Properties of Compact Objects from the Second LIGO-Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021 , 913, L7	7.9	194
126	Observation of Gravitational Waves from Two Neutron Star-Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021 , 915, L5	7.9	142
125	Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. <i>Physical Review D</i> , 2021 , 103,	4.9	81
124	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2021 , 126, 241102	7.4	21
123	GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. <i>Physical Review X</i> , 2021 , 11,	9.1	311
122	Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run. <i>Physical Review D</i> , 2021 , 104,	4.9	33
121	Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo's first three observing runs. <i>Physical Review D</i> , 2021 , 104,	4.9	12
120	Incomplete Riemann Solvers Based on Functional Approximations to the Absolute Value Function. <i>SEMA SIMAI Springer Series</i> , 2021 , 3-27	0.2	

119	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO/Virgo Run O3a. <i>Astrophysical Journal</i> , 2021 , 915, 86	4.7	6
118	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO/Virgo's Third Observing Run. <i>Astrophysical Journal</i> , 2021 , 923, 14	4.7	4
117	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. <i>Astrophysical Journal Letters</i> , 2020 , 896, L44	7.9	57 ¹
116	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2020 , 892, L3	7.9	59 ¹
115	Model comparison from LIGO/Virgo data on GW170817's binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , 2020 , 37, 045006	3.3	69
114	A guide to LIGO/Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020 , 37, 055002	3.3	78
113	Advanced Virgo Status. <i>Journal of Physics: Conference Series</i> , 2020 , 1342, 012010	0.3	8
112	Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020 , 900, L13	7.9	207
111	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3	32.5	144
110	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020 , 893, 100	4.7	9
109	Application of dictionary learning to denoise LIGO's blip noise transients. <i>Physical Review D</i> , 2020 , 102,	4.9	11
108	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$. <i>Physical Review Letters</i> , 2020 , 125, 101102	7.4	420
107	Quantum Backaction on kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. <i>Physical Review Letters</i> , 2020 , 125, 131101	7.4	17
106	The advanced Virgo longitudinal control system for the O2 observing run. <i>Astroparticle Physics</i> , 2020 , 116, 102386	2.4	7
105	Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. <i>Physical Review D</i> , 2020 , 101,	4.9	36
104	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019 , 882, L24	7.9	38 ¹
103	Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. <i>Physical Review D</i> , 2019 , 100,	4.9	31
102	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. <i>Physical Review X</i> , 2019 , 9,	9.1	1169

101	Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. <i>Physical Review D</i> , 2019 , 100,	4.9	117
100	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019 , 871, L13	7.9	77
99	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , 2019 , 99,	4.9	17
98	Neutron star collapse and gravitational waves with a non-convex equation of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 484, 4980-5008	4.3	22
97	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. <i>Astrophysical Journal</i> , 2019 , 870, 134	4.7	23
96	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. <i>Astrophysical Journal</i> , 2019 , 871, 90	4.7	22
95	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019 , 875, 122	4.7	45
94	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019 , 875, 160	4.7	60
93	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary Black-hole Merger GW170814. <i>Astrophysical Journal Letters</i> , 2019 , 876, L7	7.9	91
92	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019 , 875, 161	4.7	49
91	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , 2019 , 874, 163	4.7	17
90	Classification of gravitational-wave glitches via dictionary learning. <i>Classical and Quantum Gravity</i> , 2019 , 36, 075005	3.3	9
89	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. <i>Physical Review D</i> , 2019 , 99,	4.9	43
88	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. <i>Astrophysical Journal</i> , 2019 , 879, 10	4.7	63
87	All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , 2019 , 100,	4.9	81
86	All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2019 , 100,	4.9	39
85	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019 , 123, 011102	7.4	204
84	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. <i>Astrophysical Journal</i> , 2019 , 883, 149	4.7	36

83	Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. <i>Physical Review D</i> , 2019 , 100,	4.9	39
82	Capturing Composite Waves in Non-convex Special Relativistic Hydrodynamics. <i>Journal of Scientific Computing</i> , 2019 , 81, 2132-2161	2.3	1
81	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102	7.4	68
80	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019 , 122, 061104	7.4	22
79	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. <i>Physical Review D</i> , 2019 , 100,	4.9	258
78	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. <i>Physical Review Letters</i> , 2019 , 123, 231108	7.4	134
77	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019 , 886, 75	4.7	21
76	Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. <i>Physical Review D</i> , 2019 , 100,	4.9	31
75	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019 , 9,	9.1	423
74	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018 , 120, 091101	7.4	120
73	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018 , 97,	4.9	37
72	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
71	Total-variation methods for gravitational-wave denoising: Performance tests on Advanced LIGO data. <i>Physical Review D</i> , 2018 , 98,	4.9	10
70	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
69	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ during the observing run O2. <i>Classical and Quantum Gravity</i> , 2018 , 35, 205004	3.3	35
68	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018 , 182, 02003	0.3	4
67	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
66	Anomalous dynamics triggered by a non-convex equation of state in relativistic flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 476, 1100-1110	4.3	4

65	Jacobian-Free Incomplete Riemann Solvers. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 295-307	0.2	
64	Jacobian-free approximate solvers for hyperbolic systems: Application to relativistic magnetohydrodynamics. <i>Computer Physics Communications</i> , 2017 , 219, 108-120	4.2	4
63	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017 , 119, 141101	7.4	1270
62	A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017 , 551, 85-88	50.4	413
61	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017 , 119, 161101	7.4	4272
60	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2017 , 848, L12	7.9	1935
59	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017 , 848, L13	7.9	1614
58	Neurochemical correlates of rapid treatment response to electroconvulsive therapy in patients with major depression. <i>Journal of Psychiatry and Neuroscience</i> , 2017 , 42, 6-16	4.5	77
57	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 851, L16	7.9	133
56	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
55	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017 , 850, L35	7.9	104
54	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017 , 96,	4.9	39
53	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40	7.9	50
52	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
51	New Types of Jacobian-Free Approximate Riemann Solvers for Hyperbolic Systems. <i>Springer Proceedings in Mathematics and Statistics</i> , 2017 , 23-31	0.2	
50	Wavelength selection of rippling patterns in myxobacteria. <i>Physical Review E</i> , 2016 , 93, 012412	2.4	3
49	Approximate Osher-Solomon schemes for hyperbolic systems. <i>Applied Mathematics and Computation</i> , 2016 , 272, 347-368	2.7	26
48	Approximate Osher-Solomon Schemes for Hyperbolic Systems. <i>SEMA SIMAI Springer Series</i> , 2016 , 1-16	0.2	

47	Denoising of gravitational wave signals via dictionary learning algorithms. <i>Physical Review D</i> , 2016 , 94,	4.9	18
46	Denoising of MR spectroscopy signals using total variation and iterative Gauss-Seidel gradient updates 2015 ,		4
45	Split Bregman Method for Gravitational Wave Denoising. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2015 , 289-294	0.3	1
44	Total-variation-based methods for gravitational wave denoising. <i>Physical Review D</i> , 2014 , 90,	4.9	15
43	Anomalous wave structure in magnetized materials described by non-convex equations of state. <i>Physics of Fluids</i> , 2014 , 26, 016101	4.4	8
42	A Class of Incomplete Riemann Solvers Based on Uniform Rational Approximations to the Absolute Value Function. <i>Journal of Scientific Computing</i> , 2014 , 60, 363-389	2.3	21
41	Fronts propagating with signal dependent speed in limited diffusion and related Hamilton-Jacobi formulations. <i>Applied Numerical Mathematics</i> , 2013 , 73, 48-62	2.5	2
40	Variational multiframe restoration of images degraded by noisy (stochastic) blur kernels. <i>Journal of Computational and Applied Mathematics</i> , 2013 , 240, 123-134	2.4	6
39	The convergence of the perturbed Newton method and its application for ill-conditioned problems. <i>Applied Mathematics and Computation</i> , 2011 , 218, 2988-3001	2.7	6
38	FAST EDGE-FILTERED IMAGE UPSAMPLING. <i>Proceedings International Conference on Image Processing</i> , 2011 , 1165-1168	1.6	3
37	Diffusion front capturing schemes for a class of Fokker-Planck equations: Application to the relativistic heat equation. <i>Journal of Computational Physics</i> , 2010 , 229, 2659-2674	4.1	11
36	A note on the Bregmanized Total Variation and dual forms 2009 ,		3
35	Multiframe image restoration in the presence of noisy blur kernel 2009 ,		4
34	MRI RESOLUTION ENHANCEMENT USING TOTAL VARIATION REGULARIZATION 2009 , 2009, 161-164	1.5	12
33	Nonlinear Inverse Scale Space Methods for Total Variation Blind Deconvolution. <i>SIAM Journal on Imaging Sciences</i> , 2009 , 2, 64-83	1.9	21
32	Edge-Enhanced Image Reconstruction Using (TV) Total Variation and Bregman Refinement. <i>Lecture Notes in Computer Science</i> , 2009 , 389-400	0.9	3
31	On the Numerical Approximation of the Length of (Implicit) Level Curves. <i>Journal of Scientific Computing</i> , 2008 , 35, 99-113	2.3	1
30	Image Super-Resolution by TV-Regularization and Bregman Iteration. <i>Journal of Scientific Computing</i> , 2008 , 37, 367-382	2.3	340

29	Capturing blast waves in granular flow. <i>Computers and Fluids</i> , 2007 , 36, 1364-1372	2.8	6
28	A time evolution model for total-variation based blind deconvolution. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007 , 7, 1042301-1042302	0.2	
27	Shock-capturing schemes: high accuracy versus total-variation boundedness. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007 , 7, 1024101-1024102	0.2	
26	Blind deconvolution using TV regularization and Bregman iteration. <i>International Journal of Imaging Systems and Technology</i> , 2005 , 15, 74-83	2.5	64
25	Capturing shock waves in inelastic granular gases. <i>Journal of Computational Physics</i> , 2005 , 209, 787-795	4.1	16
24	Power ENO methods: a fifth-order accurate Weighted Power ENO method. <i>Journal of Computational Physics</i> , 2004 , 194, 632-658	4.1	80
23	Equilibrium real gas computations using Marquina's scheme. <i>International Journal for Numerical Methods in Fluids</i> , 2003 , 41, 275-301	1.9	7
22	A flux-split algorithm applied to conservative models for multicomponent compressible flows. <i>Journal of Computational Physics</i> , 2003 , 185, 120-138	4.1	92
21	Computation of travelling wave solutions of scalar conservation laws with a stiff source term. <i>Computers and Fluids</i> , 2003 , 32, 1161-1178	2.8	
20	A local spectral inversion of a linearized TV model for denoising and deblurring. <i>IEEE Transactions on Image Processing</i> , 2003 , 12, 808-16	8.7	11
19	Afternotes on PHM: Harmonic ENO Methods 2003 , 717-725		1
18	The Numerical Simulation of Relativistic Fluid Flow with Strong Shocks 2001 , 577-594		
17	High-Order Total Variation-Based Image Restoration. <i>SIAM Journal of Scientific Computing</i> , 2000 , 22, 503-516	2.6	499
16	Explicit Algorithms for a New Time Dependent Model Based on Level Set Motion for Nonlinear Deblurring and Noise Removal. <i>SIAM Journal of Scientific Computing</i> , 2000 , 22, 387-405	2.6	173
15	An Isobaric Fix for the Overheating Problem in Multimaterial Compressible Flows. <i>Journal of Computational Physics</i> , 1999 , 148, 545-578	4.1	80
14	Computing Strong Shocks in Ultrarelativistic Flows: A Robust Alternative 1999 , 243-251		
13	A New Time Dependent Model Based on Level Set Motion for Nonlinear Deblurring and Noise Removal. <i>Lecture Notes in Computer Science</i> , 1999 , 429-434	0.9	13
12	A Flux-Split Algorithm Applied to Relativistic Flows. <i>Journal of Computational Physics</i> , 1998 , 146, 58-81	4.1	99

11	Morphology and Dynamics of Relativistic Jets. <i>Astrophysical Journal</i> , 1997 , 479, 151-163	4.7	181
10	Capturing Shock Reflections: An Improved Flux Formula. <i>Journal of Computational Physics</i> , 1996 , 125, 42-58	4.1	201
9	Local Piecewise Hyperbolic Reconstruction of Numerical Fluxes for Nonlinear Scalar Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 1994 , 15, 892-915	2.6	111
8	Shooting Methods for One-Dimensional Diffusion-Absorption Problems. <i>SIAM Journal on Numerical Analysis</i> , 1994 , 31, 572-589	2.4	5
7	Shooting methods for 1D steady-state free boundary problems. <i>Computers and Mathematics With Applications</i> , 1993 , 25, 39-46	2.7	2
6	Recurrence relations for rational cubic methods II: The Chebyshev method. <i>Computing (Vienna/New York)</i> , 1990 , 45, 355-367	2.2	145
5	Recurrence relations for rational cubic methods I: The Halley method. <i>Computing (Vienna/New York)</i> , 1990 , 44, 169-184	2.2	142
4	Geometric Series in Incomplete Normed Algebras. <i>American Mathematical Monthly</i> , 1984 , 91, 49	0.3	2
3	Barrelledness conditions on $C_0(E)$. <i>Archiv Der Mathematik</i> , 1978 , 31, 589-596	0.4	13
2	A note on the closed graph theorem. <i>Archiv Der Mathematik</i> , 1977 , 28, 82-85	0.4	3
1	On quasibarrelled spaces. <i>Manuscripta Mathematica</i> , 1974 , 12, 387-398	0.5	1