

Roberto De Pietri

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

26,412
citations

50276

46
h-index

31849

101
g-index

108
all docs

108
docs citations

108
times ranked

12977
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Calibration of advanced Virgo and reconstruction of the detector strain $h(t)$ during the observing run O3. Classical and Quantum Gravity, 2022, 39, 045006. | 4.0 | 20 |
| 2 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, . | 6.6 | 20 |
| 3 | A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218. | 4.5 | 144 |
| 4 | First Demonstration of Early Warning Gravitational-wave Alerts. Astrophysical Journal Letters, 2021, 910, L21. | 8.3 | 33 |
| 5 | The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386. | 4.3 | 9 |
| 6 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3. | 26.7 | 447 |
| 7 | A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. Astrophysical Journal, 2020, 893, 100. | 4.5 | 12 |
| 8 | GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$. Physical Review Letters, 2020, 125, 101102. | 7.8 | 35 |
| 9 | Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. Physical Review Letters, 2020, 125, 131101. | 7.8 | 35 |
| 10 | GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, . | 4.7 | 394 |
| 11 | Model comparison from LIGO-Virgo data on GW170817's binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006. | 4.0 | 109 |
| 12 | A guide to LIGO-Virgo detector noise and extraction of transient gravitational-wave signals. Classical and Quantum Gravity, 2020, 37, 055002. | 4.0 | 188 |
| 13 | Advanced Virgo Status. Journal of Physics: Conference Series, 2020, 1342, 012010. | 0.4 | 9 |
| 14 | Numerical-relativity simulations of long-lived remnants of binary neutron star mergers. Physical Review D, 2020, 101, . | 4.7 | 27 |
| 15 | Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. Physical Review D, 2020, 101, . | 4.7 | 69 |
| 16 | Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13. | 8.3 | 406 |
| 17 | Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21. | 8.3 | 65 |
| 18 | Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. Physical Review D, 2019, 99, . | 4.7 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 102 |
| 20 | All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 54 |
| 21 | Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019, 123, 011102. | 7.8 | 370 |
| 22 | 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, . | 4.7 | 52 |
| 23 | Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102. | 7.8 | 119 |
| 24 | Merger of Compact Stars in the Two-families Scenario. <i>Astrophysical Journal</i> , 2019, 881, 122. | 4.5 | 42 |
| 25 | Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 52 |
| 26 | 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, . | 8.9 | 2,022 |
| 27 | Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 200 |
| 28 | A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019, 871, L13. | 8.3 | 145 |
| 29 | All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , 2019, 99, . | 4.7 | 22 |
| 30 | 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. | 4.5 | 32 |
| 31 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019, 875, 122. | 4.5 | 61 |
| 32 | Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019, 875, 160. | 4.5 | 97 |
| 33 | Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019, 875, 161. | 4.5 | 71 |
| 34 | Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , 2019, 874, 163. | 4.5 | 26 |
| 35 | Constraining the p -Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> . 2019. 122. 061104. | 7.8 | 36 |
| 36 | Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 470 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | 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. | 7.8 | 254 |
| 38 | 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, . | 4.7 | 46 |
| 39 | Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019, 9, . | 8.9 | 728 |
| 40 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101. | 7.8 | 166 |
| 41 | Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103. | 7.8 | 77 |
| 42 | GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018, 121, 161101. | 7.8 | 1,473 |
| 43 | Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ (t) Tj ETQq1 1 0.784314 rgBT /Overd | 4.0 | 41 |
| 44 | Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018, 182, 02003. | 0.3 | 9 |
| 45 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102. | 7.8 | 85 |
| 46 | Convective Excitation of Inertial Modes in Binary Neutron Star Mergers. <i>Physical Review Letters</i> , 2018, 120, 221101. | 7.8 | 27 |
| 47 | Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018, 97, . | 4.7 | 46 |
| 48 | Modeling mergers of known galactic systems of binary neutron stars. <i>Classical and Quantum Gravity</i> , 2017, 34, 034001. | 4.0 | 14 |
| 49 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017, 119, 141101. | 7.8 | 1,600 |
| 50 | A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017, 551, 85-88. | 27.8 | 674 |
| 51 | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017, 119, 161101. | 7.8 | 6,413 |
| 52 | Multi-messenger Observations of a Binary Neutron Star Merger [*] . <i>Astrophysical Journal Letters</i> , 2017, 848, L12. | 8.3 | 2,805 |
| 53 | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 848, L13. | 8.3 | 2,314 |
| 54 | Spectral analysis of gravitational waves from binary neutron star merger remnants. <i>Physical Review D</i> , 2017, 96, . | 4.7 | 31 |

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| 55 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16. | 8.3 | 189 |
| 56 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39. | 8.3 | 156 |
| 57 | 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. | 8.3 | 135 |
| 58 | First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017, 96, . | 4.7 | 47 |
| 59 | On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40. | 8.3 | 73 |
| 60 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017, 851, L35. | 8.3 | 968 |
| 61 | Power-Efficient Computing: Experiences from the COSA Project. <i>Scientific Programming</i> , 2017, 2017, 1-14. | 0.7 | 6 |
| 62 | Binary neutron star merger simulations with different initial orbital frequency and equation of state. <i>Classical and Quantum Gravity</i> , 2016, 33, 175009. | 4.0 | 26 |
| 63 | Modeling equal and unequal mass binary neutron star mergers using public codes. <i>Physical Review D</i> , 2016, 93, . | 4.7 | 40 |
| 64 | Stiffness effects on the dynamics of the bar-mode instability of neutron stars in full general relativity. <i>Physical Review D</i> , 2015, 91, . | 4.7 | 16 |
| 65 | Neutron star instabilities in full general relativity using a γ -fluid. <i>Physical Review D</i> , 2014, 90, . | 4.7 | 12 |
| 66 | Porting workflows based on small and medium parallelism applications to the Italian Grid Infrastructure. , 2014, , . | | 0 |
| 67 | Dynamical bar-mode instability in rotating and magnetized relativistic stars. <i>Physical Review D</i> , 2013, 88, . | 4.7 | 17 |
| 68 | The HPC Testbed of the Italian Grid Infrastructure. , 2013, , . | | 2 |
| 69 | HPC on the Grid: The Theophys Experience. <i>Journal of Grid Computing</i> , 2013, 11, 265-280. | 3.9 | 2 |
| 70 | Bar-mode instability suppression in magnetized relativistic stars. <i>Journal of Physics: Conference Series</i> , 2013, 470, 012008. | 0.4 | 3 |
| 71 | Effects of interplanetary dust on the LISA drag-free constellation. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 107, 255-264. | 1.4 | 1 |
| 72 | On the shear instability in relativistic neutron stars. <i>Classical and Quantum Gravity</i> , 2010, 27, 114104. | 4.0 | 45 |

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| 73 | Modulation of LISA free-fall orbits due to the Earth-Moon system. <i>Classical and Quantum Gravity</i> , 2010, 27, 165007. | 4.0 | 6 |
| 74 | Publisher's Note: Gravitational-wave extraction from neutron-star oscillations: Comparing linear and nonlinear techniques [Phys. Rev. D79, 024002 (2009)]. <i>Physical Review D</i> , 2010, 81, . | 4.7 | 0 |
| 75 | Local dark matter searches with LISA. <i>Classical and Quantum Gravity</i> , 2009, 26, 094022. | 4.0 | 4 |
| 76 | Gravitational-wave extraction from neutron-star oscillations: Comparing linear and nonlinear techniques. <i>Physical Review D</i> , 2009, 79, . | 4.7 | 36 |
| 77 | Dynamical excitation of space-time modes of compact objects. <i>Physical Review D</i> , 2008, 77, . | 4.7 | 14 |
| 78 | The planar spectrum in U(N)-invariant quantum mechanics by Fock space methods: I. The bosonic case. <i>Journal of High Energy Physics</i> , 2007, 2007, 018-018. | 4.7 | 5 |
| 79 | Dynamical non-axisymmetric instabilities in rotating relativistic stars. <i>Classical and Quantum Gravity</i> , 2007, 24, S171-S186. | 4.0 | 35 |
| 80 | Accurate simulations of the dynamical bar-mode instability in full general relativity. <i>Physical Review D</i> , 2007, 75, . | 4.7 | 102 |
| 81 | A model for QCD at high density and large quark mass. <i>Physical Review D</i> , 2007, 76, . | 4.7 | 29 |
| 82 | Accurate simulations of the bar-mode instability in General Relativity. <i>AIP Conference Proceedings</i> , 2006, , . | 0.4 | 2 |
| 83 | The apeNEXT project. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005, 140, 176-182. | 0.4 | 6 |
| 84 | Gravitational waves from oscillating accretion tori: Comparison between different approaches. <i>Physical Review D</i> , 2005, 72, . | 4.7 | 20 |
| 85 | Exact and semiclassical approach to a class of singular integral operators arising in fluid mechanics and quantum field theory. <i>Journal of Physics A</i> , 2004, 37, 11379-11389. | 1.6 | 0 |
| 86 | Review: Hamiltonian Linearization of the Rest-Frame Instant Form of Tetrad Gravity in a Completely Fixed 3-Orthogonal Gauge: A Radiation Gauge for Background-Independent Gravitational Waves in a Post-Minkowskian Einstein Spacetime. <i>General Relativity and Gravitation</i> , 2004, 36, 1055-1134. | 2.0 | 37 |
| 87 | apeNEXT: A Multi-TFlops computer for elementary particle physics. <i>Advances in Parallel Computing</i> , 2004, 13, 355-362. | 0.3 | 0 |
| 88 | Status of the apeNEXT project. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 119, 1038-1040. | 0.4 | 6 |
| 89 | The apeNEXT project. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002, 106-107, 173-176. | 0.4 | 10 |
| 90 | Status of APEmille. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002, 106-107, 1043-1045. | 0.4 | 8 |

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| 91 | APE computersâ€™ past, present and future. Computer Physics Communications, 2002, 147, 402-409. | 7.5 | 4 |
| 92 | Review: Dirac's Observables for the Rest-Frame Instant Form of Tetrad Gravity in a Completely Fixed 3-Orthogonal Gauge. General Relativity and Gravitation, 2002, 34, 877-1033. | 2.0 | 44 |
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| 95 | Feynman diagrams of generalized matrix models and the associated manifolds in dimension four. Journal of Mathematical Physics, 2000, 41, 6671. | 1.1 | 52 |
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| 97 | The basis of the physical Hilbert space of lattice gauge theories. Nuclear Physics B, 2000, 566, 547-561. | 2.5 | 28 |
| 98 | Canonical â€œLoopâ€™Quantum Gravity and Spin Foam Models. , 2000, , 43-61. | | 0 |
| 99 | so (4) Plebanski action and relativistic spin-foam model. Classical and Quantum Gravity, 1999, 16, 2187-2196. | 4.0 | 138 |
| 100 | On the relation between the connection and the loop representation of quantum gravity. Classical and Quantum Gravity, 1997, 14, 53-69. | 4.0 | 32 |
| 101 | Matrix elements of Thiemann's Hamiltonian constraint in loop quantum gravity. Classical and Quantum Gravity, 1997, 14, 2793-2823. | 4.0 | 36 |
| 102 | Spin networks and recoupling in loop quantum gravity. Nuclear Physics, Section B, Proceedings Supplements, 1997, 57, 251-254. | 0.4 | 13 |
| 103 | Geometry eigenvalues and the scalar product from recoupling theory in loop quantum gravity. Physical Review D, 1996, 54, 2664-2690. | 4.7 | 117 |
| 104 | Gauging kinematical and internal symmetry groups for extended systems: the Galilean one-time and two-times harmonic oscillators. Classical and Quantum Gravity, 1996, 13, 1417-1450. | 4.0 | 4 |
| 105 | Eigenvalues of the Weyl operator as observables of general relativity. Classical and Quantum Gravity, 1995, 12, 1279-1285. | 4.0 | 5 |
| 106 | Standard and generalized Newtonian gravities as 'gauge' theories of the extended Galilei group: I. The standard theory. Classical and Quantum Gravity, 1995, 12, 219-254. | 4.0 | 46 |
| 107 | Standard and generalized Newtonian gravities as 'gauge' theories of the extended Galilei group: II. Dynamical 3-space theories. Classical and Quantum Gravity, 1995, 12, 255-272. | 4.0 | 7 |
| 108 | Gauging kinematical and internal symmetry groups for extended systems. , 1995, , 131-140. | | 0 |