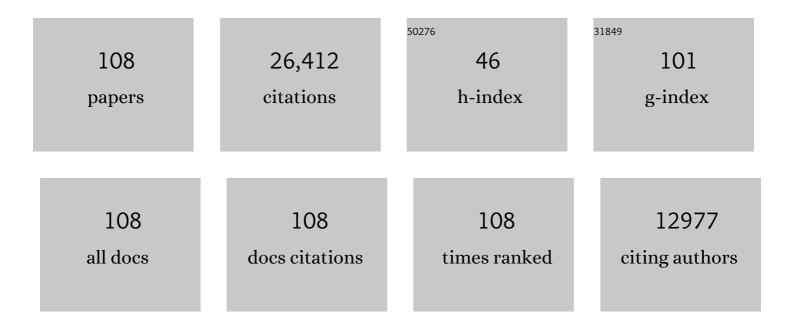
## Roberto De Pietri

List of Publications by Year in descending order

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| #  | Article                                                                                                                                                                                                                                                                                     | IF                 | CITATIONS                 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------|
| 1  | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101.                                                                                                                                                               | 7.8                | 6,413                     |
| 2  | Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . Astrophysical Journal<br>Letters, 2017, 848, L12.                                                                                                                                                               | 8.3                | 2,805                     |
| 3  | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A.<br>Astrophysical Journal Letters, 2017, 848, L13.                                                                                                                                           | 8.3                | 2,314                     |
| 4  | GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and<br>Virgo during the First and Second Observing Runs. Physical Review X, 2019, 9, .                                                                                                            | 8.9                | 2,022                     |
| 5  | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole<br>Coalescence. Physical Review Letters, 2017, 119, 141101.                                                                                                                                          | 7.8                | 1,600                     |
| 6  | GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018,<br>121, 161101.                                                                                                                                                                          | 7.8                | 1,473                     |
| 7  | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.                                                                                                                                                                      | 8.3                | 968                       |
| 8  | GW190521: A Binary Black Hole Merger with a Total Mass of <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"<br/>display="inline"&gt;<mml:mrow><mml:mn>150</mml:mn><mml:mtext> </mml:mtext><mml:mtext> stretchy="false"&gt;⊙</mml:mtext></mml:mrow>. Physical Review</mml:math<br> | ıml <b>m</b> text> | <nasadamsub></nasadamsub> |
| 9  | Letters, 2020, 125, 101102.<br>Properties of the Binary Neutron Star Merger GW170817. Physical Review X, 2019, 9, .                                                                                                                                                                         | 8.9                | 728                       |
| 10 | A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88.                                                                                                                                                                                           | 27.8               | 674                       |
| 11 | Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1.<br>Physical Review D, 2019, 100, .                                                                                                                                                       | 4.7                | 470                       |
| 12 | 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                       |
| 13 | Properties and Astrophysical Implications of the 150 M <sub>⊙</sub> Binary Black Hole Merger<br>GW190521. Astrophysical Journal Letters, 2020, 900, L13.                                                                                                                                    | 8.3                | 406                       |
| 14 | GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, .                                                                                                                                                                            | 4.7                | 394                       |
| 15 | Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102.                                                                                                                                                                                                      | 7.8                | 370                       |
| 16 | Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed<br>Vacuum States of Light. Physical Review Letters, 2019, 123, 231108.                                                                                                                    | 7.8                | 254                       |
| 17 | Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. Physical Review D, 2019, 100, .                                                                                                                                                        | 4.7                | 200                       |
| 18 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger<br>GW170817. Astrophysical Journal Letters, 2017, 851, L16.                                                                                                                                   | 8.3                | 189                       |

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| #  | Article                                                                                                                                                                              | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals.<br>Classical and Quantum Gravity, 2020, 37, 055002.                                     | 4.0 | 188       |
| 20 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101.                                | 7.8 | 166       |
| 21 | Barrett–Crane model from a Boulatov–Ooguri field theory over a homogeneous space. Nuclear<br>Physics B, 2000, 574, 785-806.                                                          | 2.5 | 165       |
| 22 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817.<br>Astrophysical Journal Letters, 2017, 850, L39.                                          | 8.3 | 156       |
| 23 | A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic<br>Counterpart. Astrophysical Journal Letters, 2019, 871, L13.                         | 8.3 | 145       |
| 24 | A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of<br>Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.                     | 4.5 | 144       |
| 25 | so (4) Plebanski action and relativistic spin-foam model. Classical and Quantum Gravity, 1999, 16, 2187-2196.                                                                        | 4.0 | 138       |
| 26 | Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube,<br>and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35. | 8.3 | 135       |
| 27 | Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. Physical<br>Review Letters, 2019, 123, 161102.                                               | 7.8 | 119       |
| 28 | Geometry eigenvalues and the scalar product from recoupling theory in loop quantum gravity.<br>Physical Review D, 1996, 54, 2664-2690.                                               | 4.7 | 117       |
| 29 | 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       |
| 30 | Accurate simulations of the dynamical bar-mode instability in full general relativity. Physical Review D, 2007, 75, .                                                                | 4.7 | 102       |
| 31 | All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO<br>O2 data. Physical Review D, 2019, 100, .                                        | 4.7 | 102       |
| 32 | Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger<br>GW170817. Astrophysical Journal, 2019, 875, 160.                                       | 4.5 | 97        |
| 33 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave<br>Background. Physical Review Letters, 2018, 120, 201102.                                  | 7.8 | 85        |
| 34 | Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. Physical<br>Review Letters, 2018, 121, 231103.                                                | 7.8 | 77        |
| 35 | On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850,<br>L40.                                                                          | 8.3 | 73        |
| 36 | Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced<br>LIGO and Virgo Observing Run. Astrophysical Journal, 2019, 875, 161.                | 4.5 | 71        |

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| #  | Article                                                                                                                                                                                                  | IF            | CITATIONS      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| 37 | Optically targeted search for gravitational waves emitted by core-collapse supernovae during the<br>first and second observing runs of advanced LIGO and advanced Virgo. Physical Review D, 2020, 101, . | 4.7           | 69             |
| 38 | Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical<br>Journal Letters, 2020, 902, L21.                                                                   | 8.3           | 65             |
| 39 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO <sup>*</sup> . Astrophysical Journal, 2019, 875, 122.                                          | 4.5           | 61             |
| 40 | Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. Physical Review D, 2019, 99, .                                                                        | 4.7           | 60             |
| 41 | All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo<br>run. Physical Review D, 2019, 100, .                                                                | 4.7           | 54             |
| 42 | Feynman diagrams of generalized matrix models and the associated manifolds in dimension four.<br>Journal of Mathematical Physics, 2000, 41, 6671.                                                        | 1.1           | 52             |
| 43 | Search for intermediate mass black hole binaries in the first and second observing runs of the<br>Advanced LIGO and Virgo network. Physical Review D, 2019, 100, .                                       | 4.7           | 52             |
| 44 | Directional limits on persistent gravitational waves using data from Advanced LIGO's first two<br>observing runs. Physical Review D, 2019, 100, .                                                        | 4.7           | 52             |
| 45 | First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. Physical Review D, 2017, 96, .                                                                 | 4.7           | 47             |
| 46 | 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             |
| 47 | Full band all-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2018,<br>97, .                                                                                         | 4.7           | 46             |
| 48 | Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. Physical Review D, 2019, 100, .                                         | 4.7           | 46             |
| 49 | On the shear instability in relativistic neutron stars. Classical and Quantum Gravity, 2010, 27, 114104.                                                                                                 | 4.0           | 45             |
| 50 | Review: Dirac's Observables for the Rest-Frame Instant Form of Tetrad Gravity in a Completely Fixed<br>3-Orthogonal Gauge. General Relativity and Gravitation, 2002, 34, 877-1033.                       | 2.0           | 44             |
| 51 | Merger of Compact Stars in the Two-families Scenario. Astrophysical Journal, 2019, 881, 122.                                                                                                             | 4.5           | 42             |
| 52 | Calibration of advanced Virgo and reconstruction of the gravitational wave signal <i>h</i> ( <i>t</i> ) Tj ETQqC                                                                                         | 0 0 0 rgBT /0 | Overlock 10 Tf |
| 53 | Modeling equal and unequal mass binary neutron star mergers using public codes. Physical Review D, 2016, 93                                                                                              | 4.7           | 40             |

Review: Hamiltonian Linearization of the Rest-Frame Instant Form of Tetrad Gravity in a Completely 54 Fixed 3-Orthogonal Gauge: A Radiation Gauge for Background-Independent Gravitational Waves in a 2.0 37 Post-Minkowskian Einstein Spacetime. General Relativity and Gravitation, 2004, 36, 1055-1134.

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| #  | Article                                                                                                                                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Matrix elements of Thiemann's Hamiltonian constraint in loop quantum gravity. Classical and<br>Quantum Gravity, 1997, 14, 2793-2823.                                                                                                                                                                                                              | 4.0 | 36        |
| 56 | Gravitational-wave extraction from neutron-star oscillations: Comparing linear and nonlinear techniques. Physical Review D, 2009, 79, .                                                                                                                                                                                                           | 4.7 | 36        |
| 57 | Constraining the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mi>p</mml:mi></mml:math> -Mode– <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mi>g</mml:mi><br/>-Mode Tidal Instability with GW170817. Physical Review Letters. 2019. 122. 061104.</mml:math<br> | 7.8 | 36        |
| 58 | Dynamical non-axisymmetric instabilities in rotating relativistic stars. Classical and Quantum Gravity, 2007, 24, S171-S186.                                                                                                                                                                                                                      | 4.0 | 35        |
| 59 | Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced<br>Virgo Detector. Physical Review Letters, 2020, 125, 131101.                                                                                                                                                                                    | 7.8 | 35        |
| 60 | First Demonstration of Early Warning Gravitational-wave Alerts. Astrophysical Journal Letters, 2021, 910, L21.                                                                                                                                                                                                                                    | 8.3 | 33        |
| 61 | On the relation between the connection and the loop representation of quantum gravity. Classical and Quantum Gravity, 1997, 14, 53-69.                                                                                                                                                                                                            | 4.0 | 32        |
| 62 | Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced<br>LIGO during Its First Observing Run, ANTARES, and IceCube. Astrophysical Journal, 2019, 870, 134.                                                                                                                                             | 4.5 | 32        |
| 63 | Spectral analysis of gravitational waves from binary neutron star merger remnants. Physical Review D, 2017, 96, .                                                                                                                                                                                                                                 | 4.7 | 31        |
| 64 | A model for QCD at high density and large quark mass. Physical Review D, 2007, 76, .                                                                                                                                                                                                                                                              | 4.7 | 29        |
| 65 | The basis of the physical Hilbert space of lattice gauge theories. Nuclear Physics B, 2000, 566, 547-561.                                                                                                                                                                                                                                         | 2.5 | 28        |
| 66 | Convective Excitation of Inertial Modes in Binary Neutron Star Mergers. Physical Review Letters, 2018, 120, 221101.                                                                                                                                                                                                                               | 7.8 | 27        |
| 67 | Numerical-relativity simulations of long-lived remnants of binary neutron star mergers. Physical Review D, 2020, 101, .                                                                                                                                                                                                                           | 4.7 | 27        |
| 68 | Binary neutron star merger simulations with different initial orbital frequency and equation of state. Classical and Quantum Gravity, 2016, 33, 175009.                                                                                                                                                                                           | 4.0 | 26        |
| 69 | Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced<br>LIGO's Second Observing Run. Astrophysical Journal, 2019, 874, 163.                                                                                                                                                                            | 4.5 | 26        |
| 70 | All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. Physical Review D, 2019, 99, .                                                                                                                                                                                                          | 4.7 | 22        |
| 71 | Gravitational waves from oscillating accretion tori: Comparison between different approaches.<br>Physical Review D, 2005, 72, .                                                                                                                                                                                                                   | 4.7 | 20        |
| 72 | 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        |

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| #  | Article                                                                                                                                                                                                                                                                                                      | IF     | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|
| 73 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600.<br>Progress of Theoretical and Experimental Physics, 2022, 2022, .                                                                                                                                                | 6.6    | 20        |
| 74 | Dynamical bar-mode instability in rotating and magnetized relativistic stars. Physical Review D, 2013, 88, .                                                                                                                                                                                                 | 4.7    | 17        |
| 75 | Stiffness effects on the dynamics of the bar-mode instability of neutron stars in full general relativity. Physical Review D, 2015, 91, .                                                                                                                                                                    | 4.7    | 16        |
| 76 | Dynamical excitation of space-time modes of compact objects. Physical Review D, 2008, 77, .                                                                                                                                                                                                                  | 4.7    | 14        |
| 77 | Modeling mergers of known galactic systems of binary neutron stars. Classical and Quantum Gravity, 2017, 34, 034001.                                                                                                                                                                                         | 4.0    | 14        |
| 78 | Spin networks and recoupling in loop quantum gravity. Nuclear Physics, Section B, Proceedings<br>Supplements, 1997, 57, 251-254.                                                                                                                                                                             | 0.4    | 13        |
| 79 | Neutron star instabilities in full general relativity using a <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mrow><mml:mi<br>mathvariant="normal"&gt;î"<mml:mo>=</mml:mo><mml:mn>2.75</mml:mn></mml:mi<br></mml:mrow></mml:math<br> fluid. Physical Review D. 2014, 90 | >ideal | 12        |
| 80 | 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        |
| 81 | The apeNEXT project. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 173-176.                                                                                                                                                                                                            | 0.4    | 10        |
| 82 | Status of Advanced Virgo. EPJ Web of Conferences, 2018, 182, 02003.                                                                                                                                                                                                                                          | 0.3    | 9         |
| 83 | The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386.                                                                                                                                                                                           | 4.3    | 9         |
| 84 | Advanced Virgo Status. Journal of Physics: Conference Series, 2020, 1342, 012010.                                                                                                                                                                                                                            | 0.4    | 9         |
| 85 | Status of APEmille. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 1043-1045.                                                                                                                                                                                                           | 0.4    | 8         |
| 86 | Standard and generalized Newtonian gravities as `gauge' theories of the extended Galilei group: II.<br>Dynamical 3-space theories. Classical and Quantum Gravity, 1995, 12, 255-272.                                                                                                                         | 4.0    | 7         |
| 87 | Status of the apeNEXT project. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 1038-1040.                                                                                                                                                                                                    | 0.4    | 6         |
| 88 | The apeNEXT project. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 176-182.                                                                                                                                                                                                                | 0.4    | 6         |
| 89 | Modulation of LISA free-fall orbits due to the Earth–Moon system. Classical and Quantum Gravity, 2010, 27, 165007.                                                                                                                                                                                           | 4.0    | 6         |
| 90 | Power-Efficient Computing: Experiences from the COSA Project. Scientific Programming, 2017, 2017, 1-14.                                                                                                                                                                                                      | 0.7    | 6         |

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| #   | Article                                                                                                                                                                                      | IF  | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Eigenvalues of the Weyl operator as observables of general relativity. Classical and Quantum Gravity, 1995, 12, 1279-1285.                                                                   | 4.0 | 5         |
| 92  | The planar spectrum in U(N)-invariant quantum mechanics by Fock space methods: I. The bosonic case.<br>Journal of High Energy Physics, 2007, 2007, 018-018.                                  | 4.7 | 5         |
| 93  | 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         |
| 94  | APE computers—past, present and future. Computer Physics Communications, 2002, 147, 402-409.                                                                                                 | 7.5 | 4         |
| 95  | Local dark matter searches with LISA. Classical and Quantum Gravity, 2009, 26, 094022.                                                                                                       | 4.0 | 4         |
| 96  | Matrix model formulation of four dimensional gravity. Nuclear Physics, Section B, Proceedings<br>Supplements, 2001, 94, 697-700.                                                             | 0.4 | 3         |
| 97  | Bar-mode instability suppression in magnetized relativistic stars. Journal of Physics: Conference<br>Series, 2013, 470, 012008.                                                              | 0.4 | 3         |
| 98  | Accurate simulations of the barmode instability in General Relativity. AIP Conference Proceedings, 2006, , .                                                                                 | 0.4 | 2         |
| 99  | The HPC Testbed of the Italian Grid Infrastructure. , 2013, , .                                                                                                                              |     | 2         |
| 100 | HPC on the Grid: The Theophys Experience. Journal of Grid Computing, 2013, 11, 265-280.                                                                                                      | 3.9 | 2         |
| 101 | Hamiltonian LGT in the complete Fourier analysis basis. Nuclear Physics, Section B, Proceedings<br>Supplements, 2000, 83-84, 926-928.                                                        | 0.4 | 1         |
| 102 | Effects of interplanetary dust on the LISA drag-free constellation. Celestial Mechanics and Dynamical Astronomy, 2010, 107, 255-264.                                                         | 1.4 | 1         |
| 103 | Exact and semiclassical approach to a class of singular integral operators arising in fluid mechanics and quantum field theory. Journal of Physics A, 2004, 37, 11379-11389.                 | 1.6 | Ο         |
| 104 | apeNEXT: A Multi-TFlops computer for elementary particle physics. Advances in Parallel Computing, 2004, 13, 355-362.                                                                         | 0.3 | 0         |
| 105 | Publisher's Note: Gravitational-wave extraction from neutron-star oscillations: Comparing linear<br>and nonlinear techniques [Phys. Rev. D79, 024002 (2009)]. Physical Review D, 2010, 81, . | 4.7 | Ο         |
| 106 | Canonical "Loop―Quantum Gravity and Spin Foam Models. , 2000, , 43-61.                                                                                                                       |     | 0         |
| 107 | Porting workflows based on small and medium parallelism applications to the Italian Grid Infrastructure. , 2014, , .                                                                         |     | 0         |
| 108 | Gauging kinematical and internal symmetry groups for extended systems. , 1995, , 131-140.                                                                                                    |     | 0         |