# Leonardo Gualtieri

List of Publications by Year
in descending order

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|---|---|---|---|
| 125 papers | 7,550 citations | 47 h-index | 85 g-index |
| | | 47006 | 53230 |
| 127 all docs | 127 docs citations | 127 times ranked | 4438 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Detecting fundamental fields with LISA observations of gravitational waves from extreme mass-ratio inspirals. Nature Astronomy, 2022, 6, 464-470. | 10.1 | 39 |
| 2 | Applications of the close-limit approximation: horizonless compact objects and scalar fields. Classical and Quantum Gravity, 2022, 39, 105005. | 4.0 | 2 |
| 3 | New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, . | 26.7 | 82 |
| 4 | Impact and detectability of spin-tidal couplings in neutron star inspirals. Physical Review D, 2022, 106, . | 4.7 | 9 |
| 5 | Quasinormal modes of rotating black holes in Einstein-dilaton Gauss-Bonnet gravity: The first order in rotation. Physical Review D, 2021, 103, . | 4.7 | 47 |
| 6 | Hidden symmetry between rotational tidal Love numbers of spinning neutron stars. Physical Review D, 2021, 104, . | 4.7 | 6 |
| 7 | Detecting Scalar Fields with Extreme Mass Ratio Inspirals. Physical Review Letters, 2020, 125, 141101. | 7.8 | 38 |
| 8 | Parametrized ringdown spin expansion coefficients: A data-analysis framework for black-hole spectroscopy with multiple events. Physical Review D, 2020, 101, . | 4.7 | 49 |
| 9 | Towards numerical relativity in scalar Gauss-Bonnet gravity: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math> decomposition beyond the small-coupling limit. Physical Review D, 2020, 101, . | 4.7 | 31 |
| 10 | A New Method to Constrain Neutron Star Structure from Quasi-periodic Oscillations. Astrophysical Journal, 2020, 899, 139. | 4.5 | 17 |
| 11 | From micro to macro and back: probing near-horizon quantum structures with gravitational waves. Classical and Quantum Gravity, 2019, 36, 167001. | 4.0 | 22 |
| 12 | Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001. | 4.0 | 451 |
| 13 | Self-interactions and spontaneous black hole scalarization. Physical Review D, 2019, 99, . | 4.7 | 104 |
| 14 | Black holes and binary mergers in scalar Gauss-Bonnet gravity: Scalar field dynamics. Physical Review D, 2019, 99, . | 4.7 | 131 |
| 15 | Electromagnetism and hidden vector fields in modified gravity theories: Spontaneous and induced vectorization. Physical Review D, 2019, 99, . | 4.7 | 42 |
| 16 | Stability of scalarized black hole solutions in scalar-Gauss-Bonnet gravity. Physical Review D, 2019, 99, . | 4.7 | 121 |
| 17 | Gravitational waves and higher dimensions: Love numbers and Kaluza-Klein excitations. Physical Review D, 2019, 100, . | 4.7 | 28 |
| 18 | Accretion in strong field gravity with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1. | 5.1 | 27 |

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| 19 | Probing Planckian Corrections at the Horizon Scale with LISA Binaries. Physical Review Letters, 2018, 120, 081101. | 7.8 | 95 |
| 20 | Spontaneous Scalarization of Black Holes and Compact Stars from a Gauss-Bonnet Coupling. Physical Review Letters, 2018, 120, 131104. | 7.8 | 391 |
| 21 | Impact of high-order tidal terms on binary neutron-star waveforms. Physical Review D, 2018, 98, . | 4.7 | 38 |
| 22 | Magnetic tidal Love numbers clarified. Physical Review D, 2018, 98, . | 4.7 | 28 |
| 23 | Post-Newtonian spin-tidal couplings for compact binaries. Physical Review D, 2018, 98, . | 4.7 | 39 |
| 24 | Evolution of a proto-neutron star with a nuclear many-body equation of state: Neutrino luminosity and gravitational wave frequencies. Physical Review D, 2017, 96, . | 4.7 | 52 |
| 25 | Constraining black holes with light boson hair and boson stars using epicyclic frequencies and quasiperiodic oscillations. Physical Review D, 2017, 95, . | 4.7 | 20 |
| 26 | Geodesic Models of Quasi-periodic-oscillations as Probes of Quadratic Gravity. Astrophysical Journal, 2017, 843, 25. | 4.5 | 40 |
| 27 | Recent progress on the tidal deformability of spinning compact objects. , 2017, , . | | 0 |
| 28 | Testing the strong field gravity regime with QPO observations. , 2017, , . | | 0 |
| 29 | Recent developments in the tidal deformability of spinning compact objects. International Journal of Modern Physics D, 2016, 25, 1641001. | 2.1 | 0 |
| 30 | Preface by the Editors. International Journal of Modern Physics D, 2016, 25, 1602002. | 2.1 | 1 |
| 31 | Numerical relativity and high energy physics: Recent developments. International Journal of Modern Physics D, 2016, 25, 1641022. | 2.1 | 8 |
| 32 | Testing the black hole â€˜no-hairâ€™ hypothesis. Classical and Quantum Gravity, 2016, 33, 174001. | 4.0 | 156 |
| 33 | Perturbed black holes in Einstein-dilaton-Gauss-Bonnet gravity: Stability, ringdown, and gravitational-wave emission. Physical Review D, 2016, 94, . | 4.7 | 152 |
| 34 | The LOFT mission concept: a status update. Proceedings of SPIE, 2016, , . | 0.8 | 9 |
| 35 | Spin evolution of a proto-neutron star. Physical Review D, 2016, 94, . | 4.7 | 10 |
| 36 | Black holes in Einstein-GauÃŸ-Bonnet-dilaton theory. Proceedings of the International Astronomical Union, 2016, 12, 265-272. | 0.0 | 18 |

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| 37 | Tidal deformations of a spinning compact object. Physical Review D, 2015, 92, . | 4.7 | 110 |
| 38 | Rotating black holes in Einstein-dilaton-Gauss-Bonnet gravity with finite coupling. Physical Review D, 2015, 92, . | 4.7 | 117 |
| 39 | Tidal Love numbers of a slowly spinning neutron star. Physical Review D, 2015, 92, . | 4.7 | 84 |
| 40 | Exploring New Physics Frontiers Through Numerical Relativity. Living Reviews in Relativity, 2015, 18, 1. | 26.7 | 64 |
| 41 | Superradiant instability of the Kerr brane. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 5 |
| 42 | Tensor-multi-scalar theories: relativistic stars and 3 + 1 decomposition. Classical and Quantum Gravity, 2015, 32, 204001. | 4.0 | 58 |
| 43 | Testing general relativity with present and future astrophysical observations. Classical and Quantum Gravity, 2015, 32, 243001. | 4.0 | 943 |
| 44 | TESTING GRAVITY WITH QUASI-PERIODIC OSCILLATIONS FROM ACCRETING BLACK HOLES: THE CASE OF THE EINSTEINâ€“DILATONâ€“GAUSSâ€“BONNET THEORY. Astrophysical Journal, 2015, 801, 115. | 4.5 | 63 |
| 45 | ON THE VALIDITY OF THE ADIABATIC APPROXIMATION IN COMPACT BINARY INSPIRALS. , 2015, , . | | 0 |
| 46 | Higher dimensional numerical relativity: Code comparison. Physical Review D, 2014, 90, . | 4.7 | 10 |
| 47 | Quasinormal modes of superfluid neutron stars. Physical Review D, 2014, 90, . | 4.7 | 24 |
| 48 | Rotating protoneutron stars: Spin evolution, maximum mass, and I-Love-Q relations. Physical Review D, 2014, 90, . | 4.7 | 45 |
| 49 | The Large Observatory for x-ray timing. Proceedings of SPIE, 2014, , . | 0.8 | 10 |
| 50 | Relativistic astrophysics at GR20. General Relativity and Gravitation, 2014, 46, 1. | 2.0 | 1 |
| 51 | Black Hole Collisions in Asymptotically de Sitter Spacetimes. Springer Proceedings in Physics, 2014, , 247-254. | 0.2 | 0 |
| 52 | Constraining the equation of state of nuclear matter with gravitational wave observations: Tidal deformability and tidal disruption. Physical Review D, 2013, 88, . | 4.7 | 47 |
| 53 | PREFACE â€" NR/HEP2: Spring School on Numerical Relativity and High Energy Physics. International Journal of Modern Physics A, 2013, 28, 1302003. | 1.5 | 0 |
| 54 | Dissipation in relativistic superfluid neutron stars. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1518-1536. | 4.4 | 23 |

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| 55 | Gravitoelectromagnetic Perturbations of Kerr-Newman Black Holes: Stability and Isospectrality in the Slow-Rotation Limit. Physical Review Letters, 2013, 110, 241103. | 7.8 | 65 |
| 56 | Equation-of-state-independent relations in neutron stars. Physical Review D, 2013, 88, . | 4.7 | 133 |
| 57 | Scalar, electromagnetic, and gravitational perturbations of Kerr-Newman black holes in the slow-rotation limit. Physical Review D, 2013, 88, . | 4.7 | 60 |
| 58 | Numerical simulations of single and binary black holes in scalar-tensor theories: Circumventing the no-hair theorem. Physical Review D, 2013, 87, . | 4.7 | 87 |
| 59 | Perturbations of slowly rotating black holes: Massive vector fields in the Kerr metric. Physical Review D, 2012, 86, . | 4.7 | 157 |
| 60 | Light scalar field constraints from gravitational-wave observations of compact binaries. Physical Review D, 2012, 85, . | 4.7 | 33 |
| 61 | Dynamics of black holes in de Sitter spacetimes. Physical Review D, 2012, 85, . | 4.7 | 19 |
| 62 | On the validity of the adiabatic approximation in compact binary inspirals. Physical Review D, 2012, 86, . | 4.7 | 25 |
| 63 | NR/HEP: roadmap for the future. Classical and Quantum Gravity, 2012, 29, 244001. | 4.0 | 50 |
| 64 | Tidal interaction in compact binaries: A post-Newtonian affine framework. Physical Review D, 2012, 85, . | 4.7 | 27 |
| 65 | Black-Hole Bombs and Photon-Mass Bounds. Physical Review Letters, 2012, 109, 131102. | 7.8 | 190 |
| 66 | Higher-dimensional puncture initial data. Physical Review D, 2011, 84, . | 4.7 | 15 |
| 67 | Simulations of black holes in compactified spacetimes. Journal of Physics: Conference Series, 2011, 314, 012103. | 0.4 | 2 |
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| 69 | Structure, deformations and gravitational wave emission of magnetars. Classical and Quantum Gravity, 2011, 28, 114014. | 4.0 | 21 |
| 70 | Oscillations of hot, young neutron stars: Gravitational wave frequencies and damping times. Physical Review D, 2011, 84, . | 4.7 | 30 |
| 71 | Floating and Sinking: The Imprint of Massive Scalars around Rotating Black Holes. Physical Review Letters, 2011, 107, 241101. | 7.8 | 120 |
| 72 | Head-on collisions of unequal mass black holes inD=5dimensions. Physical Review D, 2011, 83, . | 4.7 | 32 |

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| 73 | Gravitational waves from extreme mass-ratio inspirals in dynamical Chern-Simons gravity. Physical Review D, 2011, 83, . | 4.7 | 57 |
| 74 | Numerical relativity in higher dimensions. Journal of Physics: Conference Series, 2010, 229, 012074. | 0.4 | 2 |
| 75 | Black holes in a box. Journal of Physics: Conference Series, 2010, 229, 012072. | 0.4 | 5 |
| 76 | Threshold anomalies in Horavaâ€“Lifshitz-type theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 686, 283-287. | 4.1 | 6 |
| 77 | Structure and deformations of strongly magnetized neutron stars with twisted-torus configurations. Monthly Notices of the Royal Astronomical Society, 2010, 406, 2540-2548. | 4.4 | 85 |
| 78 | BLACK HOLEâ€“NEUTRON STAR COALESCING BINARIES. International Journal of Modern Physics D, 2010, 19, 1241-1248. | 2.1 | 0 |
| 79 | Numerical relativity forDdimensional space-times: Head-on collisions of black holes and gravitational wave extraction. Physical Review D, 2010, 82, . | 4.7 | 51 |
| 80 | Numerical relativity for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi></mml:math>dimensional axially symmetric space-times: Formalism and code tests. Physical Review D, 2010, 81, . | 4.7 | 51 |
| 81 | Neutron star tidal disruption in mixed binaries: The imprint of the equation of state. Physical Review D, 2010, 81, . | 4.7 | 47 |
| 82 | Gravitational signature of Schwarzschild black holes in dynamical Chern-Simons gravity. Physical Review D, 2010, 81, . | 4.7 | 133 |
| 83 | Comment on â€œKerr Black Holes as Particle Accelerators to Arbitrarily High Energyâ€: Physical Review Letters, 2009, 103, 239001. | 7.8 | 150 |
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| 86 | Perturbations of Schwarzschild black holes in dynamical Chern-Simons modified gravity. Physical Review D, 2009, 80, . | 4.7 | 76 |
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| 88 | Relativistic models of magnetars: structure and deformations. Monthly Notices of the Royal Astronomical Society, 2008, 385, 2080-2096. | 4.4 | 77 |
| 89 | THE RETURN OF THE MEMBRANE PARADIGM? BLACK HOLES AND STRINGS IN THE WATER TAP. International Journal of Modern Physics D, 2008, 17, 505-511. | 2.1 | 17 |
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| 91 | Unstable g -modes in proto-neutron stars. Classical and Quantum Gravity, 2007, 24, 5093-5102. | 4.0 | 8 |
| 92 | New approach to the study of quasinormal modes of rotating stars. Physical Review D, 2007, 76, . | 4.7 | 21 |
| 93 | Quark matter imprint on gravitational waves from oscillating stars. General Relativity and Gravitation, 2007, 39, 1323-1330. | 2.0 | 19 |
| 94 | Black Hole Particle Emission in Higher-Dimensional Spacetimes. Physical Review Letters, 2006, 96, 071301. | 7.8 | 95 |
| 95 | Coupling of radial and axial nonradial oscillations of compact stars: Gravitational waves from first-order differential rotation. Physical Review D, 2006, 73, . | 4.7 | 37 |
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| 97 | Relativistic r-modes and shear viscosity. AIP Conference Proceedings, 2006, , . | 0.4 | 0 |
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| 100 | Relativistic r modes and shear viscosity: regularizing the continuous spectrum. Monthly Notices of the Royal Astronomical Society, 2005, 363, 121-130. | 4.4 | 11 |
| 101 | Gravitational waves from neutron stars described by modern EOS. AIP Conference Proceedings, 2005, , . | 0.4 | 2 |
| 102 | Coupling of radial and nonradial oscillations of relativistic stars: Gauge-invariant formalism. Physical Review D, 2005, 71, . | 4.7 | 23 |
| 103 | Perturbative approach to the structure of rapidly rotating neutron stars. Physical Review D, 2005, 72, . | 4.7 | 52 |
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| 105 | Gravitational waves from rotating proto-neutron stars. Classical and Quantum Gravity, 2004, 21, S515-S519. | 4.0 | 8 |
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| 124 | On the Perturbations of a Nonrotating Star Excited by a Massive Source I.: The Matching Conditions at the Surface of the Star. International Journal of Modern Physics D, 1997, 06, 323-339. | 2.1 | 2 |
| 125 | General Relativity and its Applications. , 0, , . | | 9 |