

Elena Maria Maria Rossi

List of Publications by Year in descending order

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Version: 2024-02-01

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3,978
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62
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docs citations

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times ranked

3684
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001. | 1.5 | 451 |
| 2 | Afterglow light curves, viewing angle and the jet structure of γ -ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 332, 945-950. | 1.6 | 347 |
| 3 | Multiband light curves of tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 359-367. | 1.6 | 245 |
| 4 | The afterglow of GRB021004: Surfing on density waves. <i>Astronomy and Astrophysics</i> , 2002, 396, L5-L9. | 2.1 | 166 |
| 5 | Disc formation from tidal disruptions of stars on eccentric orbits by Schwarzschild black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2253-2266. | 1.6 | 159 |
| 6 | Prospects for detection of detached double white dwarf binaries with Gaia, LSST and LISA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1894-1910. | 1.6 | 143 |
| 7 | LINKING THE SPIN EVOLUTION OF MASSIVE BLACK HOLES TO GALAXY KINEMATICS. <i>Astrophysical Journal</i> , 2014, 794, 104. | 1.6 | 138 |
| 8 | Quasi-stars: accreting black holes inside massive envelopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 1649-1659. | 1.6 | 128 |
| 9 | LISA verification binaries with updated distances from Gaia Data Release 2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 302-309. | 1.6 | 126 |
| 10 | The redshift distribution of Swift gamma-ray bursts: evidence for evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 372, 1034-1042. | 1.6 | 121 |
| 11 | The polarization of afterglow emission reveals γ -ray bursts jet structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 354, 86-100. | 1.6 | 120 |
| 12 | eXTP: Enhanced X-ray Timing and Polarization mission. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 106 |
| 13 | High-redshift formation and evolution of central massive objects - II. The census of BH seeds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1465-1475. | 1.6 | 85 |
| 14 | Compton drag as a mechanism for very high linear polarization in gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 347, L1-L5. | 1.6 | 83 |
| 15 | HYPERVELOCITY STARS AND THE RESTRICTED PARABOLIC THREE-BODY PROBLEM. <i>Astrophysical Journal</i> , 2010, 708, 605-614. | 1.6 | 76 |
| 16 | Black hole mergers: the first light. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 2021-2035. | 1.6 | 66 |
| 17 | Gaia DR2 in 6D: searching for the fastest stars in the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 157-171. | 1.6 | 63 |
| 18 | Long-term stream evolution in tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2816-2830. | 1.6 | 61 |

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|----|---|------|-----------|
| 19 | Rates of Stellar Tidal Disruption. <i>Space Science Reviews</i> , 2020, 216, 1. | 3.7 | 60 |
| 20 | The hierarchical assembly of galaxies and black holes in the first billion years: predictions for the era of gravitational wave astronomy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 2336-2350. | 1.6 | 57 |
| 21 | The unusual gamma-ray burst GRB 101225A explained as a minor body falling onto a neutron star. <i>Nature</i> , 2011, 480, 69-71. | 13.7 | 51 |
| 22 | Observatory science with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1. | 2.0 | 50 |
| 23 | A multimessenger study of the Milky Way's stellar disc and bulge with LISA, Gaia, and LSST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 5518-5533. | 1.6 | 49 |
| 24 | Gamma-ray burst afterglow emission with a decaying magnetic field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 339, 881-886. | 1.6 | 46 |
| 25 | The complex light curve of the afterglow of GRB071010A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 347-356. | 1.6 | 44 |
| 26 | The X-ray afterglow of GRB 030329. <i>Astronomy and Astrophysics</i> , 2003, 409, 983-987. | 2.1 | 43 |
| 27 | Populations of double white dwarfs in Milky Way satellites and their detectability with LISA. <i>Astronomy and Astrophysics</i> , 2020, 638, A153. | 2.1 | 42 |
| 28 | Delayed X-ray emission from fallback in compact-object mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 1451-1455. | 1.6 | 39 |
| 29 | Detectability of Double White Dwarfs in the Local Group with LISA. <i>Astrophysical Journal Letters</i> , 2018, 866, L20. | 3.0 | 39 |
| 30 | Neutron-loaded outflows in gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 1797-1807. | 1.6 | 38 |
| 31 | THE VELOCITY DISTRIBUTION OF HYPERVELOCITY STARS. <i>Astrophysical Journal</i> , 2014, 795, 125. | 1.6 | 37 |
| 32 | On the jet structure and magnetic field configuration of GRB 020813. <i>Astronomy and Astrophysics</i> , 2004, 422, 121-128. | 2.1 | 37 |
| 33 | Magnetic field evolution in tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4879-4888. | 1.6 | 35 |
| 34 | Predicting the hypervelocity star population in Gaia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4697-4712. | 1.6 | 31 |
| 35 | EJECTION AND CAPTURE DYNAMICS IN RESTRICTED THREE-BODY ENCOUNTERS. <i>Astrophysical Journal</i> , 2012, 748, 105. | 1.6 | 30 |
| 36 | Emission lines in GRBs constrain the total energy reservoir. <i>Astronomy and Astrophysics</i> , 2002, 389, L33-L36. | 2.1 | 30 |

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|----|--|------|-----------|
| 37 | LOFT: the Large Observatory For X-ray Timing. Proceedings of SPIE, 2012, , . | 0.8 | 29 |
| 38 | Bad prospects for the detection of giant starsâ€™ tidal disruption: effect of the ambient medium on bound debris. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3324-3330. | 1.6 | 27 |
| 39 | Joint constraints on the Galactic dark matter halo and GC from hypervelocity stars. Monthly Notices of the Royal Astronomical Society, 0, , stx098. | 1.6 | 27 |
| 40 | Properties of X-ray rich gamma ray bursts and X-ray flashes detected with BeppoSAX and Hete-2. Astronomy and Astrophysics, 2006, 460, 653-664. | 2.1 | 26 |
| 41 | Radiative Emission Mechanisms. Space Science Reviews, 2020, 216, 1. | 3.7 | 25 |
| 42 | â€œOrphanâ€™ afterglows in the Universal structured jet model for Î³-ray bursts. Monthly Notices of the Royal Astronomical Society, 2008, 390, 675-682. | 1.6 | 24 |
| 43 | Core-collapse supernovae in binaries as the origin of galactic hyper-runaway stars. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5344-5363. | 1.6 | 24 |
| 44 | An artificial neural network to discover hypervelocity stars: candidates in Gaia DR1/TGAS. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1388-1403. | 1.6 | 23 |
| 45 | Hypervelocity Stars from a Supermassive Black Holeâ€™Intermediate-mass Black Hole Binary. Astrophysical Journal, 2019, 878, 17. | 1.6 | 22 |
| 46 | Simulations of stripped core-collapse supernovae in close binaries. Computational Astrophysics and Cosmology, 2016, 3, . | 22.7 | 20 |
| 47 | A lower limit on the halo mass to form supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2011, 417, 3035-3046. | 1.6 | 19 |
| 48 | Circumbinary exoplanets and brown dwarfs with the Laser Interferometer Space Antenna. Astronomy and Astrophysics, 2019, 632, A113. | 2.1 | 19 |
| 49 | Galactic potential constraints from clustering in action space of combined stellar stream data. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4170-4193. | 1.6 | 18 |
| 50 | Recent developments in the theory of tidal disruption events. Journal of High Energy Astrophysics, 2015, 7, 158-162. | 2.4 | 17 |
| 51 | Bright vigorous winds as signposts of supermassive black hole birth. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2-16. | 1.6 | 17 |
| 52 | On measuring the Galactic dark matter halo with hypervelocity stars. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4025-4036. | 1.6 | 17 |
| 53 | On the eccentricity evolution of massive black hole binaries in stellar backgrounds. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 493, L114-L119. | 1.2 | 17 |
| 54 | The Process of Stellar Tidal Disruption by Supermassive Black Holes. Space Science Reviews, 2021, 217, 1. | 3.7 | 16 |

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|----|--|-----|-----------|
| 55 | Microphysical dissipation, turbulence and magnetic fields in hyper-accreting discs. Monthly Notices of the Royal Astronomical Society, 2008, 391, 922-934. | 1.6 | 13 |
| 56 | The fate of supernova remnants near quiescent supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3096-3114. | 1.6 | 11 |
| 57 | Paving the way to simultaneous multi-wavelength astronomy. New Astronomy Reviews, 2017, 79, 26-48. | 5.2 | 11 |
| 58 | The Milky Way's bar structural properties from gravitational waves. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4958-4971. | 1.6 | 11 |
| 59 | Constraining white dwarf viscosity through tidal heating in detached binary systems. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1057-1064. | 1.6 | 10 |
| 60 | The Large Observatory for x-ray timing. Proceedings of SPIE, 2014, , . | 0.8 | 10 |
| 61 | RADIO-X-RAY SYNERGY TO DISCOVER AND STUDY JETTED TIDAL DISRUPTION EVENTS. Astrophysical Journal, 2015, 803, 36. | 1.6 | 9 |
| 62 | The LOFT mission concept: a status update. Proceedings of SPIE, 2016, , . | 0.8 | 9 |
| 63 | Light or heavy supermassive black hole seeds: the role of internal rotation in the fate of supermassive stars. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2259-2269. | 1.6 | 9 |
| 64 | The gravitational wave background signal from tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2020, 498, 507-516. | 1.6 | 9 |
| 65 | Tidal torque induced by orbital decay in compact object binaries. Monthly Notices of the Royal Astronomical Society, 2013, 428, 518-531. | 1.6 | 8 |
| 66 | Comparing hypervelocity star populations from the Large Magellanic Cloud and the Milky Way. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4997-5012. | 1.6 | 8 |
| 67 | Vertical structure of hyper-accreting disks and consequences for gamma-ray burst outflows. Astrophysics and Space Science, 2007, 311, 185-190. | 0.5 | 7 |
| 68 | Tidal disruption of inclined or eccentric binaries by massive black holes. Monthly Notices of the Royal Astronomical Society, 2018, 477, 5682-5691. | 1.6 | 7 |
| 69 | Streams collision as possible precursor of double tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1301-1316. | 1.6 | 7 |
| 70 | Gamma-Ray Bursts and Afterglow Polarisation. AIP Conference Proceedings, 2005, , . | 0.3 | 3 |
| 71 | The contribution of young core-collapse supernova remnants to the X-ray emission near quiescent supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2537-2549. | 1.6 | 3 |
| 72 | The X-ray Afterglow of GRB030329 at Early and Late Times. AIP Conference Proceedings, 2004, , . | 0.3 | 1 |

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|----|---|-----|-----------|
| 73 | The AGILE Mission and Gamma-Ray Bursts. AIP Conference Proceedings, 2007, , . | 0.3 | 1 |
| 74 | One year of in-orbit operation of the AGILE Payload. , 2008, , . | | 1 |
| 75 | Afterglow Lightcurves, Viewing Angle and the Jet Structure of Gamma-Ray Bursts. AIP Conference Proceedings, 2003, , . | 0.3 | 0 |
| 76 | Heating and Deceleration of GRB Fireballs by Neutron Decay. AIP Conference Proceedings, 2004, , . | 0.3 | 0 |
| 77 | Comparison of Three Afterglow Morphologies. AIP Conference Proceedings, 2004, , . | 0.3 | 0 |
| 78 | The redshift distribution of long gamma-ray bursts. AIP Conference Proceedings, 2006, , . | 0.3 | 0 |
| 79 | AGILE and Gamma-Ray Bursts. AIP Conference Proceedings, 2006, , . | 0.3 | 0 |
| 80 | Predictions for afterglows detected in surveys in the Universal Structured Jet Model. AIP Conference Proceedings, 2008, , . | 0.3 | 0 |
| 81 | Hypervelocity star candidates in <i>Gaia</i> DR1/TGAS. Proceedings of the International Astronomical Union, 2017, 12, 181-184. | 0.0 | 0 |
| 82 | Supermassive black hole seeds: updates on the "quasi-star model". Journal of Physics: Conference Series, 2017, 840, 012027. | 0.3 | 0 |
| 83 | Discovering intermediate massive black holes through tidally disrupted stars. International Journal of Modern Physics D, 2019, 28, 1944015. | 0.9 | 0 |
| 84 | Editorial to the Topical Collection: The Tidal Disruption of Stars by Massive Black Holes. Space Science Reviews, 2021, 217, 1. | 3.7 | 0 |
| 85 | Exploring Gaia potential to detect HVVs. EAS Publications Series, 2014, 67-68, 251-254. | 0.3 | 0 |