# Ovidiu Tesileanu

List of Publications by Year
in descending order



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|---|---|---|---|
| 47 papers | 2,063 citations | 471509 17 h-index | 330143 37 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 1835 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | PLUTO: A Numerical Code for Computational Astrophysics. Astrophysical Journal, Supplement Series, 2007, 170, 228-242. | 7.7 | 1,126 |
| 2 | The extreme light infrastructureâ€"nuclear physics (ELI-NP) facility: new horizons in physics with 10 PW ultra-intense lasers and 20 MeV brilliant gamma beams. Reports on Progress in Physics, 2018, 81, 094301. | 20.1 | 164 |
| 3 | Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, . | 3.9 | 114 |
| 4 | Perspectives for photonuclear research at the Extreme Light Infrastructure - Nuclear Physics (ELI-NP) facility. European Physical Journal A, 2015, 51, 1. | 2.5 | 56 |
| 5 | Multinucleon photonuclear reactions on 209Bi: Experiment and evaluation. European Physical Journal A, 2015, 51, 1. | 2.5 | 47 |
| 6 | Photoneutron cross sections for samarium isotopes: Toward a unified understanding of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>Î³</mml:mi><mml:mo>,</mml:mo xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo in the rare earth region. Physical Review C, 2014, 90, . | 2.9 | 44 |
| 7 | Simulating radiative astrophysical flows with the PLUTO code: a non-equilibrium, multi-species cooling function. Astronomy and Astrophysics, 2008, 488, 429-440. | 5.1 | 42 |
| 8 | Exploring the multihumped fission barrier of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>238</mml:mn></mml:msup></mml:math>U via sub-barrier photofission. Physical Review C, 2013, 87, . | 2.9 | 40 |
| 9 | Verification of detailed balance for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> absorption and emission in Dy isotopes. Physical Review C, 2018, 98, . | 2.9 | 40 |
| 10 | Energy Calibration of the NewSUBARU Storage Ring for Laser Compton-Scattering Gamma Rays and Applications. IEEE Transactions on Nuclear Science, 2014, 61, 1252-1258. | 2.0 | 38 |
| 11 | New frontiers in nuclear physics with high-power lasers and brilliant monochromatic gamma beams. Physica Scripta, 2016, 91, 093004. | 2.5 | 37 |
| 12 | Photoneutron cross sections for neodymium isotopes: Toward a unified understanding of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>Î³</mml:mi><mml:mo>,</mml:mo xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo in the rare earth region. Physical Review C, 2015, 91, . | 2.9 | 34 |
| 13 | New light in nuclear physics: The extreme light infrastructure. Europhysics Letters, 2017, 117, 28001. | 2.0 | 34 |
| 14 | The ELIâ€"NP facility for nuclear physics. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 198-202. | 1.4 | 32 |
| 15 | Low-energy enhancement in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math>-ray strength functions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>73</mml:mn><mml:mo>,</mml:mo><mml:mn>74</mml:mn></mml:mrow></mml:mmultiscripts></mml:math | 2.9 | 31 |
| 16 | Extreme Light Infrastructure â€" Nuclear Physics. Journal of Physics: Conference Series, 2013, 420, 012157. | 0.4 | 19 |
| 17 | Perspectives for photofission studies with highly brilliant, monochromaticÎ³â€"ray beams. EPJ Web of Conferences, 2012, 38, 08001. | 0.3 | 17 |
| 18 | NUMERICAL SIMULATIONS OF RADIATIVE MAGNETIZED HERBIGâ€"HARO JETS: THE INFLUENCE OF PRE-IONIZATION FROM X-RAYS ON EMISSION LINES. Astrophysical Journal, 2012, 746, 96. | 4.5 | 16 |

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|---|---|---|---|
| 19 | Time-dependent MHD shocks and line intensity ratios inÂtheÂHHÂ30Âjet: a focus on cooling function and numerical resolution. Astronomy and Astrophysics, 2009, 507, 581-588. | 5.1 | 15 |
| 20 | Young stellar object jet models: From theory to synthetic observations. Astronomy and Astrophysics, 2014, 562, A117. | 5.1 | 14 |
| 21 | Target normal sheath acceleration and laser wakefield acceleration particle-in-cell simulations performance on CPU & GPU architectures for high-power laser systems. Plasma Physics and Controlled Fusion, 2020, 62, 094005. | 2.1 | 14 |
| 22 | A TPC Detector for Studying Photo-nuclear Reactions at Astrophysical Energies with Gamma-ray Beams at ELI--NP. Acta Physica Polonica B, 2018, 49, 509. | 0.8 | 14 |
| 23 | Gamma ray beams for Nuclear Astrophysics: first results of tests and simulations of the ELISSA array. Journal of Instrumentation, 2017, 12, C03079-C03079. | 1.2 | 12 |
| 24 | Experiments with combined laser and gamma beams at ELI-NP. AIP Conference Proceedings, 2017, , . | 0.4 | 12 |
| 25 | Extreme light infrastructure nuclear physics (ELI-NP): present status and perspectives. Proceedings of SPIE, 2013, , . | 0.8 | 11 |
| 26 | Time Projection Chamber (TPC) detectors for nuclear astrophysics studies with gamma beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161779. | 1.6 | 9 |
| 27 | The Extreme Light Infrastructure Nuclear Physics Facility: Towards Experiments with Brilliant $gamma $-Ray Beams. Acta Physica Polonica B, 2014, 45, 483. | 0.8 | 7 |
| 28 | Towards experiments at the new ELI-NP facility. EPJ Web of Conferences, 2014, 78, 06001. | 0.3 | 4 |
| 29 | Geant4 simulations on Compton scattering of laser photons on relativistic electrons. , 2015, , . | | 4 |
| 30 | New Frontiers in Nuclear Physics Research at ELI--NP. Acta Physica Polonica B, 2015, 46, 743. | 0.8 | 4 |
| 31 | Photodisintegration reactions for nuclear astrophysics studies at ELI-NP. Journal of Physics: Conference Series, 2018, 940, 012025. | 0.4 | 3 |
| 32 | Photonuclear reactions in astrophysical p-process: Theoretical calculations and experiment simulation based on ELI-NP. EPJ Web of Conferences, 2017, 146, 01015. | 0.3 | 2 |
| 33 | Extreme Light Infrastructure â€“ Nuclear Physics A New Research Infrastructure at the Interface of Laser and Subatomic Physics. The Review of Laser Engineering, 2014, 42, 123. | 0.0 | 2 |
| 34 | First evidence of low energy enhancement in Ge isotopes. EPJ Web of Conferences, 2015, 93, 04003. | 0.3 | 1 |
| 35 | Nuclear physics with advanced brilliant gamma beams at ELIâ€“NP. EPJ Web of Conferences, 2016, 107, 01002. | 0.3 | 1 |
| 36 | High-flux electron beams from laser wakefield accelerators driven by petawatt lasers. Plasma Science and Technology, 2017, 19, 070502. | 1.5 | 1 |

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|---|---|---|---|
| 37 | Experimental design of radiation reaction by 1 PW laser pulse and linear accelerator electron bunch. High Energy Density Physics, 2021, 38, 100919. | 1.5 | 1 |
| 38 | Jets from Young Stellar Objects: From MHD Simulations to Synthetic Observations. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 447-452. | 0.3 | 1 |
| 39 | Radiative MHD simulations of the jets from RW Aurigae. Proceedings of the International Astronomical Union, 2010, 6, 410-411. | 0.0 | 0 |
| 40 | Energy calibration of the NewSUBARU storage ring by laser compton-scattering gamma rays and its applications. , 2013, , . | | 0 |
| 41 | Absolute photoneutron cross sections of Sm isotopes. , 2015, , . | | 0 |
| 42 | Photoneutron cross section measurements on Sm isotopes. EPJ Web of Conferences, 2015, 93, 02006. | 0.3 | 0 |
| 43 | Photoneutron Reactions in Nuclear Astrophysics. Journal of Physics: Conference Series, 2015, 590, 012023. | 0.4 | 0 |
| 44 | Laser-based acceleration for nuclear physics experiments at ELI-NP. EPJ Web of Conferences, 2016, 117, 05004. | 0.3 | 0 |
| 45 | Gamma Polari-Calorimeter: Performing simultaneous polarization and energy measurements of gamma rays using the pair production process. , 2017, , . | | 0 |
| 46 | Laboratory Astrophysics at Extreme Light Infrastructure: Nuclear Physics. Thirty Years of Astronomical Discovery With UKIRT, 2019, , 125-130. | 0.3 | 0 |
| 47 | First HPLS Experiments at ELI-NP: Spectral Broadening in Thin Films. , 2020, , . | | 0 |