# Yudai Suwa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5957496/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 38 papers | 1,507 citations | 361413 20 h-index | 434195 31 g-index |
| 38 all docs | 38 docs citations | 38 times ranked | 1425 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Truncated Moment Formalism for Radiation Hydrodynamics in Numerical Relativity. Progress of Theoretical Physics, 2011, 125, 1255-1287. | 2.0 | 171 |
| 2 | Symmetry energy impact in simulations of core-collapse supernovae. European Physical Journal A, 2014, 50, 1. | 2.5 | 142 |
| 3 | Explosion Geometry of a Rotating 13 $ M_{odot}$ Star Driven by the SASI-Aided Neutrino-Heating Supernova Mechanism. Publication of the Astronomical Society of Japan, 2010, 62, L49-L53. | 2.5 | 131 |
| 4 | Three-dimensional simulations of rapidly rotating core-collapse supernovae: finding a neutrino-powered explosion aided by non-axisymmetric flows. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 461, L112-L116. | 3.3 | 120 |
| 5 | CAN GAMMA-RAY BURST JETS BREAK OUT THE FIRST STARS?. Astrophysical Journal, 2011, 726, 107. | 4.5 | 88 |
| 6 | ON THE IMPORTANCE OF THE EQUATION OF STATE FOR THE NEUTRINO-DRIVEN SUPERNOVA EXPLOSION MECHANISM. Astrophysical Journal, 2013, 764, 99. | 4.5 | 80 |
| 7 | On the minimum mass of neutron stars. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3305-3312. | 4.4 | 74 |
| 8 | Neutrino-driven explosions of ultra-stripped Type Ic supernovae generating binary neutron stars. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3073-3081. | 4.4 | 73 |
| 9 | Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001. | 2.1 | 73 |
| 10 | Space-based gravitational-wave detectors can determine the thermal history of the early Universe. Physical Review D, 2008, 77, . | 4.7 | 72 |
| 11 | Core-collapse supernovae as supercomputing science: A status report toward six-dimensional simulations with exact Boltzmann neutrino transport in full general relativity. Progress of Theoretical and Experimental Physics, 2012, 2012, . | 6.6 | 68 |
| 12 | Magnetorotational Collapse of Population III Stars. Publication of the Astronomical Society of Japan, 2007, 59, 771-785. | 2.5 | 56 |
| 13 | THE CRITERION OF SUPERNOVA EXPLOSION REVISITED: THE MASS ACCRETION HISTORY. Astrophysical Journal, 2016, 816, 43. | 4.5 | 43 |
| 14 | Observing Supernova Neutrino Light Curves with Super-Kamiokande: Expected Event Number over 10 s. Astrophysical Journal, 2019, 881, 139. | 4.5 | 40 |
| 15 | LONG-DURATION X-RAY FLASH AND X-RAY-RICH GAMMA-RAY BURSTS FROM LOW-MASS POPULATION III STARS. Astrophysical Journal, 2012, 759, 128. | 4.5 | 37 |
| 16 | Gravitational Wave Background from Population III Stars. Astrophysical Journal, 2007, 665, L43-L46. | 4.5 | 36 |
| 17 | Explosive nucleosynthesis of ultra-stripped Type Ic supernovae: application to light trans-iron elements. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4275-4285. | 4.4 | 28 |
| 18 | PROBING THE ROTATION OF CORE-COLLAPSE SUPERNOVA WITH A CONCURRENT ANALYSIS OF GRAVITATIONAL WAVES AND NEUTRINOS. Astrophysical Journal, 2015, 811, 86. | 4.5 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Importance of 56Ni production on diagnosing explosion mechanism of core-collapse supernova. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3607-3617. | 4.4 | 26 |
| 20 | From supernovae to neutron stars. Publication of the Astronomical Society of Japan, 2014, 66, . | 2.5 | 24 |
| 21 | Observing Supernova Neutrino Light Curves with Super-Kamiokande. II. Impact of the Nuclear Equation of State. Astrophysical Journal, 2022, 925, 98. | 4.5 | 15 |
| 22 | Developing an end-to-end simulation framework of supernova neutrino detection. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 14 |
| 23 | IMPACT OF ROTATION ON NEUTRINO EMISSION AND RELIC NEUTRINO BACKGROUND FROM POPULATION III STARS. Astrophysical Journal, 2009, 690, 913-922. | 4.5 | 10 |
| 24 | Analytic solutions for neutrino-light curves of core-collapse supernovae. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 10 |
| 25 | On the Energy Source of Ultrastripped Supernovae. Astrophysical Journal, 2022, 927, 223. | 4.5 | 10 |
| 26 | Neutrino acceleration by bulk matter motion and explosion mechanism of gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2013, 428, 2443-2449. | 4.4 | 9 |
| 27 | Supernova forecast with strong lensing. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2612-2616. | 4.4 | 8 |
| 28 | A Consistent Modeling of Neutrino-driven Wind with Accretion Flow onto a Protoneutron Star and Its Implications for <sup>56</sup>Ni Production. Astrophysical Journal, 2021, 908, 6. | 4.5 | 8 |
| 29 | Kompaneets equation for neutrinos: Application to neutrino heating in supernova explosions. Progress of Theoretical and Experimental Physics, 2019, 2019, . | 6.6 | 6 |
| 30 | Can Population III stars be major origins of both merging binary black holes and extremely metal poor stars?. Publication of the Astronomical Society of Japan, 2022, 74, 521-532. | 2.5 | 5 |
| 31 | Gravitational Wave Background from Population III Stars. , 2008, , . | | 3 |
| 32 | On the importance of the equation of state for the neutrino-driven supernova explosion mechanism. Proceedings of the International Astronomical Union, 2011, 7, 397-398. | 0.0 | 1 |
| 33 | The Accretion-Powered Jet Propagations and Breakout Criteria for GRB Progenitors. Proceedings of the International Astronomical Union, 2011, 7, 363-364. | 0.0 | 0 |
| 34 | 3D hydrodynamic core-collapse SN simulations for an 11.2 MâŠ™ star with spectral neutrino transport. Proceedings of the International Astronomical Union, 2011, 7, 409-410. | 0.0 | 0 |
| 35 | Long duration X-ray flash from low mass population III stars. , 2012, , . | | 0 |
| 36 | First gamma-ray bursts imprinting population III progenitor structure. , 2012, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | From Supernovae to Neutron Stars. , 2018, , . | | 0 |
| 38 | GRAVITATIONAL COLLAPSE OF POPULATION III STARS. , 2008, , . | | 0 |