

# Alejandro Vigna-Gómez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8051089/publications.pdf>

Version: 2024-02-01

28  
papers

1,577  
citations

394421

19  
h-index

501196

28  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1518  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of the first three gravitational-wave observations through isolated binary evolution. <i>Nature Communications</i> , 2017, 8, 14906.	12.8	270
2	The effect of the metallicity-specific star formation history on double compact object mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 3740-3759.	4.4	192
3	On the formation history of Galactic double neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4009-4029.	4.4	189
4	The Impact of Pair-instability Mass Loss on the Binary Black Hole Mass Distribution. <i>Astrophysical Journal</i> , 2019, 882, 121.	4.5	114
5	Accuracy of inference on the physics of binary evolution from gravitational-wave observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4685-4695.	4.4	100
6	Impact of massive binary star and cosmic evolution on gravitational wave observations I: black hole–neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5028-5063.	4.4	83
7	Explosions Driven by the Coalescence of a Compact Object with the Core of a Massive-star Companion inside a Common Envelope: Circumstellar Properties, Light Curves, and Population Statistics. <i>Astrophysical Journal</i> , 2020, 892, 13.	4.5	57
8	Rapid Stellar and Binary Population Synthesis with COMPAS. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 34.	7.7	57
9	Detecting double neutron stars with LISA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3061-3072.	4.4	49
10	Binary population synthesis with probabilistic remnant mass and kick prescriptions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1380-1384.	4.4	49
11	Massive Stellar Triples Leading to Sequential Binary Black Hole Mergers in the Field. <i>Astrophysical Journal Letters</i> , 2021, 907, L19.	8.3	45
12	Luminous Red Novae: population models and future prospects. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3229-3240.	4.4	42
13	Be X-ray binaries in the SMC as indicators of mass-transfer efficiency. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4705-4720.	4.4	40
14	Common envelope episodes that lead to double neutron star formation. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	40
15	Chemically homogeneous evolution: a rapid population synthesis approach. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 663-676.	4.4	33
16	An extremely energetic supernova from a very massive star in a dense medium. <i>Nature Astronomy</i> , 2020, 4, 893-899.	10.1	31
17	<scp>stroopwafel</scp>: simulating rare outcomes from astrophysical populations, with application to gravitational-wave sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5228-5248.	4.4	30
18	Wind Mass-loss Rates of Stripped Stars Inferred from Cygnus X-1. <i>Astrophysical Journal</i> , 2021, 908, 118.	4.5	29

#	ARTICLE	IF	CITATIONS
19	Massive Stellar Mergers as Precursors of Hydrogen-rich Pulsational Pair Instability Supernovae. <i>Astrophysical Journal Letters</i> , 2019, 876, L29.	8.3	28
20	Formation pathway for lonely stripped-envelope supernova progenitors: implications for Cassiopeia A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1154-1171.	4.4	19
21	Constraints on Weak Supernova Kicks from Observed Pulsar Velocities. <i>Astrophysical Journal Letters</i> , 2021, 920, L37.	8.3	18
22	Stellar response after stripping as a model for common-envelope outcomes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 2326-2338.	4.4	16
23	Fallback Supernova Assembly of Heavy Binary Neutron Stars and Light Black Holeâ€“Neutron Star Pairs and the Common Stellar Ancestry of GW190425 and GW200115. <i>Astrophysical Journal Letters</i> , 2021, 920, L17.	8.3	12
24	COMPAS: A rapid binary population synthesis suite. <i>Journal of Open Source Software</i> , 2022, 7, 3838.	4.6	9
25	Exploring the Parameter Space of Compact Binary Population Synthesis. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 46-50.	0.0	8
26	Multimessenger Constraints on Magnetic Fields in Merging Black Holeâ€“Neutron Star Binaries. <i>Astrophysical Journal</i> , 2022, 927, 56.	4.5	8
27	Mergers prompted by dynamics in compact, multiple-star systems: a stellar-reduction case for the massive triple TIC 470710327. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 515, L50-L55.	3.3	5
28	Wide binary pulsars from electron-capture supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 6105-6110.	4.4	4