

Rodrigo Fernandez

List of Publications by Year in descending order

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48
papers

3,477
citations

136940

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49
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49
docs citations

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times ranked

2994
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term 3D MHD simulations of black hole accretion discs formed in neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 2689-2707.	4.4	18
2	The impact of r -process heating on the dynamics of neutron star merger accretion disc winds and their electromagnetic radiation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 2968-2979.	4.4	11
3	Probing magnetar emission mechanisms with X-ray spectropolarimetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 5024-5034.	4.4	8
4	Reconstructing Masses of Merging Neutron Stars from Stellar r -process Abundance Signatures. <i>Astrophysical Journal</i> , 2021, 909, 21.	4.5	13
5	Mass Ejection in Failed Supernovae: Equation of State and Neutrino Loss Dependence. <i>Astrophysical Journal</i> , 2021, 911, 6.	4.5	20
6	From Neutrino- to Photon-cooled in Three Years: Can fallback Accretion Explain the X-Ray Excess in GW170817?. <i>Astrophysical Journal Letters</i> , 2021, 916, L3.	8.3	16
7	Resolving the Fastest Ejecta from Binary Neutron Star Mergers: Implications for Electromagnetic Counterparts. <i>Astrophysical Journal</i> , 2021, 921, 161.	4.5	11
8	The Challenges Ahead for Multimessenger Analyses of Gravitational Waves and Kilonova: A Case Study on GW190425. <i>Astrophysical Journal</i> , 2021, 922, 269.	4.5	35
9	The landscape of disc outflows from black hole–neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 3221-3233.	4.4	51
10	A Deep CFHT Optical Search for a Counterpart to the Possible Neutron Star–Black Hole Merger GW190814. <i>Astrophysical Journal</i> , 2020, 895, 96.	4.5	40
11	Nuclear-dominated accretion flows in two dimensions – II. Ejecta dynamics and nucleosynthesis for CO and ONe white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 259-279.	4.4	28
12	The role of magnetic field geometry in the evolution of neutron star merger accretion discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4811-4825.	4.4	102
13	Long-term GRMHD simulations of neutron star merger accretion discs: implications for electromagnetic counterparts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3373-3393.	4.4	207
14	Mass ejection in failed supernovae: variation with stellar progenitor. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2366-2383.	4.4	76
15	A physical model of mass ejection in failed supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1225-1238.	4.4	27
16	Subphotospheric fluctuations in magnetized radiative envelopes: contribution from unstable magnetosonic waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2286-2297.	4.4	1
17	Hypermassive Neutron Star Disk Outflows and Blue Kilonovae. <i>Astrophysical Journal Letters</i> , 2018, 869, L3.	8.3	39
18	Signatures of hypermassive neutron star lifetimes on r -process nucleosynthesis in the disc ejecta from neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 904-918.	4.4	152

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19	Dynamics, nucleosynthesis, and kilonova signature of black hole–neutron star merger ejecta. <i>Classical and Quantum Gravity</i> , 2017, 34, 154001.	4.0	82
20	Electromagnetic Signatures of Neutron Star Mergers in the Advanced LIGO Era. <i>Annual Review of Nuclear and Particle Science</i> , 2016, 66, 23-45.	10.2	162
21	Production of the entire range of r -process nuclides by black hole accretion disc outflows from neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2323-2334.	4.4	147
22	Super-Eddington stellar winds driven by near-surface energy deposition. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1214-1233.	4.4	76
23	X-ray polarimetry with the Polarization Spectroscopic Telescope Array (PoSTAR). <i>Astroparticle Physics</i> , 2016, 75, 8-28.	4.3	42
24	Three-dimensional simulations of SASI- and convection-dominated core-collapse supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 2071-2086.	4.4	60
25	MONTE CARLO NEUTRINO TRANSPORT THROUGH REMNANT DISKS FROM NEUTRON STAR MERGERS. <i>Astrophysical Journal</i> , 2015, 813, 38.	4.5	49
26	The interplay of disc wind and dynamical ejecta in the aftermath of neutron star–black hole mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 390-402.	4.4	75
27	Outflows from accretion discs formed in neutron star mergers: effect of black hole spin. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 750-758.	4.4	115
28	Kilonova light curves from the disc wind outflows of compact object mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 1777-1786.	4.4	264
29	Red or blue? A potential kilonova imprint of the delay until black hole formation following a neutron star merger. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3444-3453.	4.4	320
30	Characterizing SASI- and convection-dominated core-collapse supernova explosions in two dimensions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2763-2780.	4.4	57
31	Delayed outflows from black hole accretion tori following neutron star binary coalescence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 502-517.	4.4	285
32	HEAD-ON COLLISIONS OF WHITE DWARFS IN TRIPLE SYSTEMS COULD EXPLAIN TYPE Ia SUPERNOVAE. <i>Astrophysical Journal Letters</i> , 2013, 778, L37.	8.3	219
33	NONLINEAR EVOLUTION OF THE RADIATION-DRIVEN MAGNETO-ACOUSTIC INSTABILITY. <i>Astrophysical Journal</i> , 2013, 767, 144.	4.5	4
34	NUCLEAR DOMINATED ACCRETION FLOWS IN TWO DIMENSIONS. I. TORUS EVOLUTION WITH PARAMETRIC MICROPHYSICS. <i>Astrophysical Journal</i> , 2013, 763, 108.	4.5	55
35	HYDRODYNAMICS OF CORE-COLLAPSE SUPERNOVAE AT THE TRANSITION TO EXPLOSION. I. SPHERICAL SYMMETRY. <i>Astrophysical Journal</i> , 2012, 749, 142.	4.5	57
36	THE X-RAY POLARIZATION SIGNATURE OF QUIESCENT MAGNETARS: EFFECT OF MAGNETOSPHERIC SCATTERING AND VACUUM POLARIZATION. <i>Astrophysical Journal</i> , 2011, 730, 131.	4.5	42

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37	THE SPIRAL MODES OF THE STANDING ACCRETION SHOCK INSTABILITY. <i>Astrophysical Journal</i> , 2010, 725, 1563-1580.	4.5	94
38	DYNAMICS OF A SPHERICAL ACCRETION SHOCK WITH NEUTRINO HEATING AND ALPHA-PARTICLE RECOMBINATION. <i>Astrophysical Journal</i> , 2009, 703, 1464-1485.	4.5	57
39	STABILITY OF A SPHERICAL ACCRETION SHOCK WITH NUCLEAR DISSOCIATION. <i>Astrophysical Journal</i> , 2009, 697, 1827-1841.	4.5	57
40	Constraining a possible time-variation of the gravitational constant through α -gravitochemical heating of neutron stars. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 314-314.	0.0	2
41	Multidimensional Resonant Cyclotron Scattering and the Quiescent X-ray Emission from Magnetars. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
42	Resonant Cyclotron Scattering in Three Dimensions and the Quiescent Nonthermal X-ray Emission of Magnetars. <i>Astrophysical Journal</i> , 2007, 660, 615-640.	4.5	101
43	Internal heating and thermal emission from old neutron stars. <i>Astrophysics and Space Science</i> , 2007, 308, 413-418.	1.4	3
44	Braking the Gas in the $\hat{1}^2$ Pictoris Disk. <i>Astrophysical Journal</i> , 2006, 643, 509-522.	4.5	72
45	Rotochemical Heating of Neutron Stars: Rigorous Formalism with Electrostatic Potential Perturbations. <i>Astrophysical Journal</i> , 2006, 653, 568-572.	4.5	14
46	Constraining a Possible Time Variation of the Gravitational Constant through α -Gravitochemical Heating of Neutron Stars. <i>Physical Review Letters</i> , 2006, 97, 131102.	7.8	44
47	Rotochemical Heating in Millisecond Pulsars: Formalism and Nonsuperfluid Case. <i>Astrophysical Journal</i> , 2005, 625, 291-306.	4.5	57
48	Proper Motion and Kinematics of the Ansa ϵ in NGC 7009. <i>Astrophysical Journal</i> , 2004, 603, 595-598.	4.5	10