

Asif ud-Doula

List of Publications by Year in descending order

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59
papers

2,980
citations

236925

25
h-index

175258

52
g-index

63
all docs

63
docs citations

63
times ranked

1478
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical Simulations of Magnetically Channeled Line-driven Stellar Winds. I. Isothermal, Nonrotating, Radially Driven Flow. <i>Astrophysical Journal</i> , 2002, 576, 413-428.	4.5	376
2	Simulating Radiating and Magnetized Flows in Multiple Dimensions with ZEUS-MP. <i>Astrophysical Journal, Supplement Series</i> , 2006, 165, 188-228.	7.7	268
3	A magnetic confinement versus rotation classification of massive-star magnetospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 398-422.	4.4	208
4	Dynamical simulations of magnetically channelled line-driven stellar winds - III. Angular momentum loss and rotational spin-down. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 1022-1033.	4.4	199
5	Dynamical simulations of magnetically channelled line-driven stellar winds - II. The effects of field-aligned rotation. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 385, 97-108.	4.4	196
6	Chandra/HETGS Multiphase Spectroscopy of the Young Magnetic O Star θ^1 Orionis C. <i>Astrophysical Journal</i> , 2005, 628, 986-1005.	4.5	181
7	The MiMeS survey of magnetism in massive stars: introduction and overview. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2-22.	4.4	174
8	AN INTRODUCTION TO THE CHANDRA CARINA COMPLEX PROJECT. <i>Astrophysical Journal, Supplement Series</i> , 2011, 194, 1.	7.7	117
9	X-RAY EMISSION FROM MAGNETIC MASSIVE STARS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 215, 10.	7.7	87
10	Backbone Dipoles Generate Positive Potentials in all Proteins: Origins and Implications of the Effect. <i>Biophysical Journal</i> , 2000, 78, 1126-1144.	0.5	82
11	Centrifugal Breakout of Magnetically Confined Line-driven Stellar Winds. <i>Astrophysical Journal</i> , 2006, 640, L191-L194.	4.5	72
12	Magnetic massive stars as progenitors of $\sim 10^6 M_{\odot}$ stellar-mass black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1052-1060.	4.4	72
13	A Rigid-Field Hydrodynamics approach to modelling the magnetospheres of massive stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 382, 139-157.	4.4	69
14	A dynamical magnetosphere model for periodic $H\alpha$ emission from the slowly rotating magnetic O star HD 191612. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 423, L21-L25.	3.3	68
15	The magnetic early B-type stars α^3 III. A main-sequence magnetic, rotational, and magnetospheric biography. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 274-295.	4.4	65
16	X-rays from magnetically confined wind shocks: effect of cooling-regulated shock retreat. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3600-3614.	4.4	60
17	The Effect of Magnetic Field Tilt and Divergence on the Mass Flux and Flow Speed in a Line-driven Stellar Wind. <i>Astrophysical Journal</i> , 2004, 600, 1004-1015.	4.5	58
18	Confirmation of the magnetic oblique rotator model for the Of?p star HD 191612. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 3160-3169.	4.4	58

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19	First 3DMHD simulation of a massive-star magnetosphere with application to H α emission from $\hat{A}1$ Ori C. Monthly Notices of the Royal Astronomical Society, 2013, 428, 2723-2730.	4.4	56
20	Investigating the spectroscopic, magnetic and circumstellar variability of the O9 subgiant star HD \hat{A} 57682. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2208-2227.	4.4	44
21	An \hat{A} -analytic dynamical magnetosphere \hat{A} ™ formalism for X-ray and optical emission from slowly rotating magnetic massive stars. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3830-3844.	4.4	44
22	Rotation, spectral variability, magnetic geometry and magnetosphere of the Of?p star CPD \hat{A} 28 \hat{A} ° 2561 \hat{A} Monthly Notices of the Royal Astronomical Society, 2015, 447, 2551-2567.	4.4	32
23	High surface magnetic field in red giants as a new signature of planet engulfment?. Astronomy and Astrophysics, 2016, 593, L15.	5.1	29
24	How the breakout-limited mass in B-star centrifugal magnetospheres controls their circumstellar H \hat{A} emission. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5366-5378.	4.4	28
25	Suppression of X-rays from radiative shocks by their thin-shell instability. Monthly Notices of the Royal Astronomical Society, 2014, 438, 3557-3567.	4.4	27
26	Phase-resolved ultraviolet spectroscopy of the magnetic Of?p star HD \hat{A} 191612. Monthly Notices of the Royal Astronomical Society, 2013, 431, 2253-2260.	4.4	26
27	Detection of 610-MHz radio emission from hot magnetic stars. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1245-1253.	4.4	25
28	High-entropy ejections from magnetized proto-neutron star winds: implications for heavy element nucleosynthesis. Monthly Notices of the Royal Astronomical Society, 2018, 476, 5502-5515.	4.4	24
29	Confirming HD 23478 as a new magnetic B star hosting an H \hat{A} -bright centrifugal magnetosphere. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1928-1938.	4.4	22
30	Magnetically confined wind shocks in X-rays \hat{A} “ A review. Advances in Space Research, 2016, 58, 680-693.	2.6	22
31	Investigating the origin of cyclical wind variability in hot, massive stars \hat{A} “ I. On the dipolar magnetic field hypothesis \hat{A} Monthly Notices of the Royal Astronomical Society, 2014, 444, 429-442.	4.4	20
32	A MULTIPHASE<i>SUZAKU</i>STUDY OF X-RAYS FROM \hat{A} , Sco. Astrophysical Journal, 2010, 721, 1412-1420.	4.5	18
33	X-ray emission from the giant magnetosphere of the magnetic O-type star NGC 1624-2. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3288-3299.	4.4	18
34	Extreme resonance line profile variations in the ultraviolet spectra of NGC 1624-2: probing the giant magnetosphere of the most strongly magnetized known O-type star. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2814-2824.	4.4	18
35	The changing UV and X-ray properties of the Of?p star CPD \hat{A} 28 \hat{A} °2561. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2641-2653.	4.4	15
36	A JVLA survey of the high-frequency radio emission of the massive magnetic B- and O-type stars. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2160-2169.	4.4	15

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37	Disruption of circumstellar discs by large-scale stellar magnetic fields. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3049-3055.	4.4	15
38	An investigation of the magnetic properties of the classical Be star ϵ Ori by the MiMeS Collaboration. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2738-2750.	4.4	13
39	CHANDRA VIEW OF MAGNETICALLY CONFINED WIND IN HD 191612: THEORY VERSUS OBSERVATIONS. Astrophysical Journal, 2016, 831, 138.	4.5	9
40	3D MHD simulations and synthetic radio emission from an oblique rotating magnetic massive star. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3251-3268.	4.4	8
41	Building galaxies, stars, planets and the ingredients for life between the stars. The science behind the European Ultraviolet-Visible Observatory. Astrophysics and Space Science, 2014, 354, 229-246.	1.4	7
42	Magnetic fields in massive stars and magnetically confined winds. Astronomische Nachrichten, 2017, 338, 944-951.	1.2	4
43	Co-existence and switching between fast and $\hat{\text{C}}$ -slow wind solutions in rapidly rotating massive stars. Monthly Notices of the Royal Astronomical Society, 2018, 477, 755-765.	4.4	4
44	Modelling magnetically channeled winds in 3D $\hat{\text{C}}$ I. Isothermal simulations of a magnetic O supergiant. Monthly Notices of the Royal Astronomical Society, 2022, 515, 237-255.	4.4	4
45	X-ray emission line profile modeling of hot stars. Review of Scientific Instruments, 2003, 74, 1966-1968.	1.3	3
46	Modeling the magnetospheres of luminous stars: Interactions between supersonic radiation-driven winds and stellar magnetic fields. Physics of Plasmas, 2007, 14, 056502.	1.9	2
47	Magnetic fields, winds and X-rays of massive stars in the Orion nebula cluster. Proceedings of the International Astronomical Union, 2010, 6, 208-209.	0.0	2
48	Stellar Winds, Magnetic Fields and Disks. Lecture Notes in Physics, 2013, , 207-230.	0.7	2
49	Magnetic Massive Stars. Proceedings of the International Astronomical Union, 2007, 3, 577-586.	0.0	1
50	The surprising X-ray emission of Oe stars. Proceedings of the International Astronomical Union, 2010, 6, 624-625.	0.0	1
51	Angular momentum loss and stellar spin-down in magnetic massive stars. Proceedings of the International Astronomical Union, 2008, 4, 423-424.	0.0	0
52	The latest developments on Of?p stars. Proceedings of the International Astronomical Union, 2010, 6, 626-627.	0.0	0
53	3D simulation of the wind of the magnetic massive star $\hat{\text{C}}$ 21 Ori C. , 2012, ,		0
54	Investigating the origin of cyclical spectral variations in hot, massive stars. Proceedings of the International Astronomical Union, 2013, 9, 334-337.	0.0	0

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55	Magnetic Field - Stellar Winds Interaction. Proceedings of the International Astronomical Union, 2014, 9, 321-329.	0.0	0
56	The X-ray properties of magnetic massive stars. Proceedings of the International Astronomical Union, 2014, 9, 437-442.	0.0	0
57	Stellar Models: What is the future direction?. Proceedings of the International Astronomical Union, 2014, 9, 501-504.	0.0	0
58	Destruction of Be star disk by large scale magnetic fields. Proceedings of the International Astronomical Union, 2016, 12, 453-453.	0.0	0
59	Closing gaps to our origins. Experimental Astronomy, 0, , 1.	3.7	0