

Pierre Lesaffre

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

3,346
citations

759233

12
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

3789
citing authors

#	ARTICLE	IF	CITATIONS
1	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA). <i>Astrophysical Journal, Supplement Series</i> , 2011, 192, 3.	7.7	2,880
2	Low-velocity shocks: signatures of turbulent dissipation in diffuse irradiated gas. <i>Astronomy and Astrophysics</i> , 2013, 550, A106.	5.1	89
3	H ₂ distribution during the formation of multiphase molecular clouds. <i>Astronomy and Astrophysics</i> , 2016, 587, A76.	5.1	49
4	Temporal evolution of magnetic molecular shocks. <i>Astronomy and Astrophysics</i> , 2004, 427, 147-155.	5.1	48
5	UV-driven chemistry in simulations of the interstellar medium. <i>Astronomy and Astrophysics</i> , 2012, 544, A22.	5.1	41
6	Models of irradiated molecular shocks. <i>Astronomy and Astrophysics</i> , 2019, 622, A100.	5.1	40
7	Origin of CH ⁺ in diffuse molecular clouds. <i>Astronomy and Astrophysics</i> , 2017, 600, A114.	5.1	34
8	Effects of turbulent diffusion on the chemistry of diffuse clouds. <i>Astronomy and Astrophysics</i> , 2007, 469, 949-961.	5.1	32
9	Temporal evolution of magnetic molecular shocks. <i>Astronomy and Astrophysics</i> , 2004, 427, 157-167.	5.1	30
10	3D chemical structure of diffuse turbulent ISM. <i>Astronomy and Astrophysics</i> , 2020, 643, A36.	5.1	24
11	Exact shearing box solutions of magnetohydrodynamic flows with resistivity, viscosity and cooling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 381, 319-333.	4.4	21
12	H ₂ emission from non-stationary magnetized bow shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 1472-1488.	4.4	13
13	SOFIA/EXES Observations of Warm H ₂ at High Spectral Resolution: Witnessing Para-to-ortho Conversion behind a Molecular Shock Wave in HH7. <i>Astrophysical Journal Letters</i> , 2019, 878, L18.	8.3	10
14	Turbulence closure for mixing length theories. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 646-662.	4.4	8
15	Production and excitation of molecules by dissipation of two-dimensional turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 816-834.	4.4	8
16	A two-dimensional mixing length theory of convective transport. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 2200-2208.	4.4	5
17	Convective differential rotation in stars and planets – I. Theory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3758-3781.	4.4	5
18	Molecules, shocks, and disk in the axi-symmetric wind of the MS-type AGB star RS Cancri. <i>Astronomy and Astrophysics</i> , 2022, 658, A135.	5.1	5

#	ARTICLE	IF	CITATIONS
19	Convective differential rotation in stars and planets – II. Observational and numerical tests. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3782-3806.	4.4	3
20	H ₂ Distribution during 2-phase Molecular Cloud Formation. EAS Publications Series, 2015, 75-76, 393-394.	0.3	1