Christopher J Wareing

List of Publications by Year
in descending order

43	838	361413	477307
papers	citations	20 h-index	29 g-index

43	43	43	678
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The interaction of planetary nebulae and their asymptotic giant branch progenitors with the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2007, 382, 1233-1245.	4.4	94
2	Experimental measurement and Reynolds-averaged Navierâ€“Stokes modelling of the near-field structure of multi-phase CO2 jet releases. International Journal of Greenhouse Gas Control, 2013, 18, 139-149.	4.6	52
3	A composite equation of state for the modeling of sonic carbon dioxide jets in carbon capture and storage scenarios. AICHE Journal, 2013, 59, 3928-3942.	3.6	41
4	An integrated, multi-scale modelling approach for the simulation of multiphase dispersion from accidental CO2 pipeline releases in realistic terrain. International Journal of Greenhouse Gas Control, 2014, 27, 221-238.	4.6	40
5	The shaping of planetary nebula Sh 2-188 through interaction with the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2006, 366, 387-396.	4.4	37
6	Vortices in the Wakes of Asymptotic Giant Branch Stars. Astrophysical Journal, 2007, 660, L129-L132.	4.5	37
7	It's a Wonderful Tail: The Mass-Loss History of Mira. Astrophysical Journal, 2007, 670, L125-L129.	4.5	36
8	Validation of a model of gas and dense phase CO2 jet releases for carbon capture and storage application. International Journal of Greenhouse Gas Control, 2014, 20, 254-271.	4.6	36
9	Detached shells as tracers of asymptotic giant branch-interstellar medium bow shocks. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 372, L63-L67.	3.3	33
10	Forward and inverse cascades in decaying two-dimensional electron magnetohydrodynamic turbulence. Physics of Plasmas, 2009, 16, .	1.9	30
11	CO2PipeHaz: Quantitative Hazard Assessment for Next Generation CO2 Pipelines. Energy Procedia, 2014, 63, 2510-2529.	1.8	29
12	New Candidate Planetary Nebulae in the IPHAS Survey: the Case of Planetary Nebulae with ISM interaction. Publications of the Astronomical Society of Australia, 2010, 27, 166-173.	3.4	28
13	Cascades in decaying three-dimensional electron magnetohydrodynamic turbulence. Journal of Plasma Physics, 2010, 76, 117-128.	2.1	27
14	Magnetohydrodynamical simulation of the formation of clumps and filaments in quiescent diffuse medium by thermal instability. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1803-1818.	4.4	27
15	Techno-economic assessment of CO 2 quality effect on its storage and transport: CO 2 QUEST. International Journal of Greenhouse Gas Control, 2016, 54, 662-681.	4.6	25
16	VLT/near-infrared integral field spectrometer observations of molecular hydrogen lines in the knots of the planetary nebula NGC 7293 (the Helix Nebula). Monthly Notices of the Royal Astronomical Society, 2007, 382, 1447-1459.	4.4	23
17	Magnetohydrodynamic simulations of mechanical stellar feedback in a sheet-like molecular cloud. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2757-2783.	4.4	23
18	Hall cascades versus instabilities in neutron star magnetic fields. Astronomy and Astrophysics, 2009, 508, L39-L42.	5.1	21

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19	A new mechanical stellar wind feedback model for the Rosette Nebula. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3598-3612.	4.4	21
20	Modelling punctures of buried high-pressure dense phase CO 2 pipelines in CCS applications. International Journal of Greenhouse Gas Control, 2014, 29, 231-247.	4.6	20
21	CO2QUEST: Techno-economic Assessment of CO2 Quality Effect on Its Storage and Transport. Energy Procedia, 2014, 63, 2622-2629.	1.8	19
22	Hydrodynamic simulations of mechanical stellar feedback in a molecular cloud formed by thermal instability. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2283-2313.	4.4	18
23	Sheets, filaments, and clumps â€“ high-resolution simulations of how the thermal instability can form molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4686-4702.	4.4	15
24	Modelling ruptures of buried high pressure dense phase CO 2 pipelines in carbon capture and storage applicationsâ€”Part I. Validation. International Journal of Greenhouse Gas Control, 2015, 42, 701-711.	4.6	14
25	High pressure CO 2 CCS pipelines: Comparing dispersion models with multiple experimental datasets. International Journal of Greenhouse Gas Control, 2016, 54, 716-726.	4.6	13
26	Thermal instability revisited. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4484-4499.	4.4	13
27	Rebrightening of Planetary Nebulae Through Interaction with the Interstellar Medium. Publications of the Astronomical Society of Australia, 2010, 27, 220-226.	3.4	10
28	Modelling ruptures of buried high-pressure dense-phase CO 2 pipelines in carbon capture and storage applications â€“ Part II. A full-scale rupture. International Journal of Greenhouse Gas Control, 2015, 42, 712-728.	4.6	9
29	Large-Scale Validation of a Numerical Model of Accidental Releases from Buried CO2 Pipelines. Computer Aided Chemical Engineering, 2013, 32, 229-234.	0.5	9
30	Numerical Simulation of CO2 Dispersion From Punctures and Ruptures of Buried High-pressure Dense Phase CO2 Pipelines with Experimental Validation. Energy Procedia, 2014, 63, 2500-2509.	1.8	6
31	Numerical Modelling of Turbulent Particle-laden Sonic CO2 Jets with Experimental Validation. Procedia Engineering, 2015, 102, 1621-1629.	1.2	6
32	Numerical modelling of particle-laden sonic CO[sub 2] jets with experimental validation. AIP Conference Proceedings, 2013, , .	0.4	5
33	How to inflate a wind-blown bubble. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1768-1776.	4.4	5
34	RECONCILING THE EMISSION MECHANISM DISCREPANCY IN MIRA'S TAIL AND ITS EVOLUTION IN AN INTERFACE WITH SHEAR. Astrophysical Journal Letters, 2012, 748, L19.	8.3	4
35	Interactions of a shock with a molecular cloud at various stages of its evolution due to thermal instability and gravity. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3137-3154.	4.4	4
36	Striations, integrals, hourglasses, and collapse â€“ thermal instability driven magnetic simulations of molecular clouds. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2831-2849.	4.4	3

#	Article	IF	Citations
37	Measurement and RANS modelling of large-scale under-expanded CO[sub 2] releases for CCS applications. , 2013, , .		2
38	Measurement and Modelling of the Near-field Structure of Large-scale Sonic CO2 Releases from Pipelines. Computer Aided Chemical Engineering, 2014, 33, 919-924.	0.5	1
39	How D-type Hâ€‰<scp>ii</scp>â€‰region expansion depends on numerical resolution. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2797-2801.	4.4	1
40	Shocking interactions of supernova remnants with atomic and molecular clouds â€“ the interplay between shocks, thermal instability, and gravity in the large cloud regime. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3345-3358.	4.4	1
41	The shaping of planetary nebulae through interaction with the interstellar medium. Proceedings of the International Astronomical Union, 2006, 2, 541.	0.0	0
42	Validation of turbulence closures for the RANS modelling of under-expanded fluid releases. AIP Conference Proceedings, 2015, , .	0.4	0
43	Comparison of numerical predictions with CO2 pipeline release datasets of relevance to carbon capture and storage applications. AIP Conference Proceedings, 2015, , .	0.4	0