Pak-Shing Li

List of Publications by Year
in descending order

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38 papers	1,468 citations	331670 21 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	1568 citing authors

#	Article	IF	Citations
1	Simulating Radiating and Magnetized Flows in Multiple Dimensions with ZEUSâ€MP. Astrophysical Journal, Supplement Series, 2006, 165, 188-228.	7.7	268
2	Two Regimes of Turbulent Fragmentation and the Stellar Initial Mass Function from Primordial to Presentâ€Day Star Formation. Astrophysical Journal, 2007, 661, 972-981.	4.5	149
3	COMPARING NUMERICAL METHODS FOR ISOTHERMAL MAGNETIZED SUPERSONIC TURBULENCE. Astrophysical Journal, 2011, 737, 13.	4.5	105
4	Magnetized interstellar molecular clouds â€“ I. Comparison between simulations and Zeeman observations. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2500-2527.	4.4	65
5	SUB-ALFVÃ‰NIC NON-IDEAL MHD TURBULENCE SIMULATIONS WITH AMBIPOLAR DIFFUSION. II. COMPARISON WITH OBSERVATION, CLUMP PROPERTIES, AND SCALING TO PHYSICAL UNITS. Astrophysical Journal, 2010, 720, 1612-1634.	4.5	59
6	A Holistic Perspective on the Dynamics of G035.39-00.33: The Interplay between Gas and Magnetic Fields. Astrophysical Journal, 2018, 859, 151.	4.5	57
7	Subâ€AlfvÃ©nic Nonideal MHD Turbulence Simulations with Ambipolar Diffusion. I. Turbulence Statistics. Astrophysical Journal, 2008, 684, 380-394.	4.5	56
8	A STABLE, ACCURATE METHODOLOGY FOR HIGH MACH NUMBER, STRONG MAGNETIC FIELD MHD TURBULENCE WITH ADAPTIVE MESH REFINEMENT: RESOLUTION AND REFINEMENT STUDIES. Astrophysical Journal, 2012, 745, 139.	4.5	51
9	The TOP-SCOPE Survey of Planck Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. Astrophysical Journal, Supplement Series, 2018, 234, 28.	7.7	50
10	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions â€“ I. Survey description and a first look at G9.62+0.19. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2790-2820.	4.4	45
11	Formation of stellar clusters in magnetized, filamentary infrared dark clouds. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4220-4241.	4.4	43
12	ALMA Reveals Sequential High-mass Star Formation in the G9.62+0.19 Complex. Astrophysical Journal, 2017, 849, 25.	4.5	41
13	The Formation and Evolution of Wide-orbit Stellar Multiples In Magnetized Clouds. Astrophysical Journal, 2019, 887, 232.	4.5	39
14	The Heavyâ€Ion Approximation for Ambipolar Diffusion Calculations for Weakly Ionized Plasmas. Astrophysical Journal, 2006, 653, 1280-1291.	4.5	38
15	Magnetic Fields in the Infrared Dark Cloud G34.43+0.24. Astrophysical Journal, 2019, 883, 95.	4.5	38
16	Magnetic fields in the formation of the first stars â€“ I. Theory versus simulation. Monthly Notices of the Royal Astronomical Society, 2020, 496, 5528-5551.	4.4	31
17	Massive-star Formation via the Collapse of Subvirial and Virialized Turbulent Massive Cores. Astrophysical Journal, 2019, 887, 108.	4.5	29
18	Magnetized interstellar molecular clouds â€“ II. The large-scale structure and dynamics of filamentary molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4509-4528.	4.4	29

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19	AMBIPOLAR DIFFUSION HEATING IN TURBULENT SYSTEMS. Astrophysical Journal, 2012, 760, 33.	4.5	25
20	The CH⁺abundance in turbulent, diffuse molecular clouds. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2748-2759.	4.4	24
21	Mapping the magnetic field in the Taurus/B211 filamentary cloud with SOFIA HAWCÂ+Âand comparing with simulation. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6085-6109.	4.4	24
22	ATOMS: ALMA three-millimeter observations of massive star-forming regions â€“ III. Catalogues of candidate hot molecular cores and hyper/ultra compact Hâ€‰<scp>ii</scp> regions. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2801-2818.	4.4	23
23	Photoionization Rates in Clumpy Molecular Clouds. Astrophysical Journal, 2007, 667, 275-287.	4.5	20
24	ATOMS: ALMA three-millimeter observations of massive star-forming regions â€“ II. Compact objects in ACA observations and star formation scaling relations. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2821-2835.	4.4	20
25	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions â€“ XI. From inflow to infall in hub-filament systems. Monthly Notices of the Royal Astronomical Society, 2022, 514, 6038-6052.	4.4	19
26	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions â€“ V. Hierarchical fragmentation and gas dynamics in IRDC G034.43+00.24. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5009-5022.	4.4	17
27	ALMA Observations Reveal No Preferred Outflow-filament and Outflow-magnetic Field Orientations in Protoclusters. Astrophysical Journal, 2020, 890, 44.	4.5	16
28	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): Detection of Extremely High-density Compact Structure of Prestellar Cores and Multiple Substructures Within. Astrophysical Journal Letters, 2021, 907, L15.	8.3	16
29	Magnetic fields in the formation of the first stars â€“ II. Results. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5042-5069.	4.4	15
30	SUB-ALFVÃ‰NIC NON-IDEAL MAGNETOHYDRODYNAMIC TURBULENCE SIMULATIONS WITH AMBIPOLAR DIFFUSION. III. IMPLICATIONS FOR OBSERVATIONS AND TURBULENT ENHANCEMENT. Astrophysical Journal, 2012, 744, 73.	4.5	14
31	The Davisâ€“Chandrasekharâ€“Fermi method revisited. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1575-1594.	4.4	11
32	The TOP-SCOPE Survey of PGCCs: PMO and SCUBA-2 Observations of 64 PGCCs in the Second Galactic Quadrant. Astrophysical Journal, Supplement Series, 2018, 236, 49.	7.7	10
33	Compressed Magnetic Field in the Magnetically Regulated Global Collapsing Clump of G9.62+0.19. Astrophysical Journal Letters, 2018, 869, L5.	8.3	9
34	The role of magnetic fields in the stability and fragmentation of filamentary molecular clouds: two case studies at OMC-3 and OMC-4. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3024-3040.	4.4	5
35	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): How Do Dense Core Properties Affect the Multiplicity of Protostars?. Astrophysical Journal, 2022, 931, 158.	4.5	4
36	The mass distribution of unstable cores in turbulent magnetized clouds. Proceedings of the International Astronomical Union, 2006, 2, 283-291.	0.0	1

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37	Ambipolar Diffusion Effects on Weakly Ionized Turbulence Molecular Clouds. Proceedings of the International Astronomical Union, 2010, 6, 421-424.	0.0	0
38	Numerical simulation of star formation in filamentary dark molecular clouds. Proceedings of the International Astronomical Union, 2015, 11, 103-106.	0.0	0