

Lei Qian

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,588
citations

218677

26
h-index

189892

50
g-index

62
all docs

62
docs citations

62
times ranked

1822
citing authors

#	ARTICLE	IF	CITATIONS
1	THE FIVE-HUNDRED-METER APERTURE SPHERICAL RADIO TELESCOPE (FAST) PROJECT. <i>International Journal of Modern Physics D</i> , 2011, 20, 989-1024.	2.1	616
2	FAST in Space: Considerations for a Multibeam, Multipurpose Survey Using China's 500-m Aperture Spherical Radio Telescope (FAST). <i>IEEE Microwave Magazine</i> , 2018, 19, 112-119.	0.8	174
3	The fundamental performance of FAST with 19-beam receiver at L band. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 064.	1.7	157
4	Commissioning progress of the FAST. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	150
5	A bimodal burst energy distribution of a repeating fast radio burst source. <i>Nature</i> , 2021, 598, 267-271.	27.8	129
6	Diverse polarization angle swings from a repeating fast radio burst source. <i>Nature</i> , 2020, 586, 693-696.	27.8	109
7	First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. <i>Astrophysical Journal</i> , 2017, 842, 66.	4.5	79
8	Frequency-dependent polarization of repeating fast radio bursts—implications for their origin. <i>Science</i> , 2022, 375, 1266-1270.	12.6	55
9	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. <i>Astrophysical Journal</i> , 2018, 861, 65.	4.5	51
10	The TOP-SCOPE Survey of <i>Planck</i> Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 28.	7.7	50
11	A First Look at BISTRO Observations of the ρ Oph-A core. <i>Astrophysical Journal</i> , 2018, 859, 4.	4.5	46
12	How Do Stars Gain Their Mass? A JCMT/SCUBA-2 Transient Survey of Protostars in Nearby Star-forming Regions. <i>Astrophysical Journal</i> , 2017, 849, 43.	4.5	42
13	JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. <i>Astrophysical Journal</i> , 2019, 876, 42.	4.5	42
14	Dust polarized emission observations of NGC 6334. <i>Astronomy and Astrophysics</i> , 2021, 647, A78.	5.1	41
15	¹³ CO CORES IN THE TAURUS MOLECULAR CLOUD. <i>Astrophysical Journal</i> , 2012, 760, 147.	4.5	40
16	OUTFLOWS AND BUBBLES IN TAURUS: STAR-FORMATION FEEDBACK SUFFICIENT TO MAINTAIN TURBULENCE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 20.	7.7	39
17	The JCMT BISTRO Survey: Magnetic Fields Associated with a Network of Filaments in NGC 1333. <i>Astrophysical Journal</i> , 2020, 899, 28.	4.5	39
18	CLOUD STRUCTURE OF GALACTIC OB CLUSTER-FORMING REGIONS FROM COMBINING GROUND- AND SPACE-BASED BOLOMETRIC OBSERVATIONS. <i>Astrophysical Journal</i> , 2016, 828, 32.	4.5	38

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19	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core ρ Ophiuchus C. <i>Astrophysical Journal</i> , 2019, 877, 43.	4.5	38
20	The first pulsar discovered by FAST. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	38
21	The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. <i>Astrophysical Journal</i> , 2019, 877, 88.	4.5	37
22	FAST Globular Cluster Pulsar Survey: Twenty-four Pulsars Discovered in 15 Globular Clusters. <i>Astrophysical Journal Letters</i> , 2021, 915, L28.	8.3	37
23	Cloud Structure of Three Galactic Infrared Dark Star-forming Regions from Combining Ground- and Space-based Bolometric Observations. <i>Astrophysical Journal</i> , 2017, 840, 22.	4.5	33
24	FAST: Its Scientific Achievements and Prospects. <i>Innovation(China)</i> , 2020, 1, 100053.	9.1	32
25	A Fast Radio Burst Discovered in FAST Drift Scan Survey. <i>Astrophysical Journal Letters</i> , 2020, 895, L6.	8.3	31
26	CRAFTS for Fast Radio Bursts: Extending the Dispersion-Fluence Relation with New FRBs Detected by FAST. <i>Astrophysical Journal Letters</i> , 2021, 909, L8.	8.3	31
27	PSR J1926-0652: A Pulsar with Interesting Emission Properties Discovered at FAST. <i>Astrophysical Journal</i> , 2019, 877, 55.	4.5	28
28	Radio pulsations from a neutron star within the gamma-ray binary LS I +61 $^{\circ}$ 303. <i>Nature Astronomy</i> , 2022, 6, 698-702.	10.1	27
29	An in-depth investigation of 11 pulsars discovered by FAST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3515-3530.	4.4	26
30	FAST discovery of an extremely radio-faint millisecond pulsar from the Fermi-LAT unassociated source 3FGL J0318.1+0252. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	25
31	Status and perspectives of the CRAFTS extra-galactic HI survey. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	24
32	The FAST Discovery of an Eclipsing Binary Millisecond Pulsar in the Globular Cluster M92 (NGC 6341). <i>Astrophysical Journal Letters</i> , 2020, 892, L6.	8.3	22
33	Discovery and Timing of Pulsars in the Globular Cluster M13 with FAST. <i>Astrophysical Journal</i> , 2020, 892, 43.	4.5	21
34	The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry. <i>Astrophysical Journal Letters</i> , 2021, 912, L27.	8.3	21
35	An early transition to magnetic supercriticality in star formation. <i>Nature</i> , 2022, 601, 49-52.	27.8	21
36	A NEW METHOD FOR CONSTRAINING MOLECULAR CLOUD THICKNESS: A STUDY OF TAURUS, PERSEUS, AND OPHIUCHUS. <i>Astrophysical Journal</i> , 2015, 811, 71.	4.5	19

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37	Studies of Turbulence Dissipation in the Taurus Molecular Cloud with Core Velocity Dispersion. <i>Astrophysical Journal</i> , 2018, 864, 116.	4.5	18
38	FAST early pulsar discoveries: Effelsberg follow-up. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 300-314.	4.4	17
39	Observations of Magnetic Fields Surrounding LkH $\hat{\pm}$ 101 Taken by the BISTRO Survey with JCMT-POL-2. <i>Astrophysical Journal</i> , 2021, 908, 10.	4.5	16
40	B-fields in Star-forming Region Observations (BISTRO): Magnetic Fields in the Filamentary Structures of Serpens Main. <i>Astrophysical Journal</i> , 2022, 926, 163.	4.5	16
41	Large-scale Spectroscopic Mapping of the $\hat{\imath}$ -Ophiuchi Molecular Cloud Complex. I. The C ₂ H-to-N ₂ H ⁺ Ratio as a Signpost of Cloud Characteristics. <i>Astrophysical Journal</i> , 2017, 836, 194.	4.5	13
42	A Single-pulse Study of PSR J1022+1001 Using the FAST Radio Telescope. <i>Astrophysical Journal</i> , 2021, 908, 105.	4.5	13
43	The JCMT BISTRO Survey: An 850/450 $\hat{\imath}$ / $\hat{\mu}$ m Polarization Study of NGC 2071IR in Orion B. <i>Astrophysical Journal</i> , 2021, 918, 85.	4.5	13
44	A PRESTO-based parallel pulsar search pipeline used for FAST drift scan data. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 091.	1.7	10
45	Arecibo and FAST timing follow-up of 12 millisecond pulsars discovered in Commensal Radio Astronomy FAST Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 518, 1672-1682.	4.4	10
46	Periodic and Phase-locked Modulation in PSR B1929+10 Observed with FAST. <i>Astrophysical Journal</i> , 2021, 909, 170.	4.5	8
47	Three pulsars discovered by FAST in the globular cluster NGC 6517 with a pulsar candidate sifting code based on dispersion measure to signal-to-noise ratio plots. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 143.	1.7	8
48	Low-mass Active Galactic Nuclei on the Fundamental Plane of Black Hole Activity. <i>Astrophysical Journal</i> , 2018, 860, 134.	4.5	5
49	Pilot Hi survey of Planck Galactic Cold Clumps with FAST. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 077.	1.7	5
50	A GPU based single-pulse search pipeline (GSP) with database and its application to the Commensal Radio Astronomy FAST Survey (CRAFTS). <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 314.	1.7	5
51	Measurement of the Gamma-Ray Energy Spectrum beyond 100 TeV from the HESS J1843 $\hat{\alpha}$ “033 Region. <i>Astrophysical Journal</i> , 2022, 932, 120.	4.5	4
52	A Ringed Dwarf LINER 1 Galaxy Hosting an Intermediate-mass Black Hole with Large-scale Rotation-like Emission. <i>Astrophysical Journal</i> , 2017, 837, 109.	4.5	3
53	Tracing the Formation of Molecular Clouds in a Low-metallicity Galaxy: An H $\hat{\imath}$ Narrow Self-absorption Survey of the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2019, 887, 242.	4.5	3
54	An Eclipsing Black Widow Pulsar in NGC 6712. <i>Astrophysical Journal</i> , 2021, 921, 120.	4.5	3

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55	Observational Features of Exoplanetary Synchrotron Radio Bursts. <i>Astrophysical Journal</i> , 2020, 895, 22.	4.5	2
56	Spatial modulation search applied to the search and confirmation of highly scintillated pulsars at FAST with a pulsar discovered in M3. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 185.	1.7	2