

Mark G Rawlings

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

8,960
citations

159585

30
h-index

206112

48
g-index

53
all docs

53
docs citations

53
times ranked

3696
citing authors

#	ARTICLE	IF	CITATIONS
1	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
2	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
3	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
4	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
5	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
6	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
7	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
8	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
9	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
10	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
11	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
12	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	8.3	187
13	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
14	OMC-1 dust polarization in ALMA Band 7: diagnosing grain alignment mechanisms in the vicinity of Orion Source I. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 3414-3433.	4.4	15
15	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
16	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
17	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
18	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43

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19	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
20	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
21	The JCMT BISTRO Survey: An 850/450 $\hat{1}\frac{1}{4}$ m Polarization Study of NGC 2071IR in Orion B. <i>Astrophysical Journal</i> , 2021, 918, 85.	4.5	13
22	A Decade of SCUBA-2: A Comprehensive Guide to Calibrating 450 $\hat{1}\frac{1}{4}$ m and 850 $\hat{1}\frac{1}{4}$ m Continuum Data at the JCMT. <i>Astronomical Journal</i> , 2021, 162, 191.	4.7	22
23	The HASHTAG Project: The First Submillimeter Images of the Andromeda Galaxy from the Ground. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 52.	7.7	5
24	The MALATANG survey: dense gas and star formation from high-transition HCN and HCO ⁺ maps of NGC 253. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1276-1296.	4.4	9
25	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
26	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	5.1	54
27	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
28	Implementing remote observing at the JCMT. , 2020, , .		1
29	JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. <i>Astrophysical Journal</i> , 2019, 876, 42.	4.5	42
30	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core κ Ophiuchus C. <i>Astrophysical Journal</i> , 2019, 877, 43.	4.5	38
31	The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. <i>Astrophysical Journal</i> , 2019, 877, 88.	4.5	37
32	Near-infrared diffuse interstellar bands towards Her 36. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3398-3401.	4.4	4
33	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
34	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
35	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
36	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264

#	ARTICLE	IF	CITATIONS
37	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
38	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
39	The Properties of Planck Galactic Cold Clumps in the L1495 Dark Cloud. <i>Astrophysical Journal</i> , 2018, 856, 141.	4.5	19
40	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
41	Dust spectrum and polarisation at 850 μm in the massive IRDC G035.39-00.33. <i>Astronomy and Astrophysics</i> , 2018, 620, A26.	5.1	22
42	Planck Cold Clumps in the $\rho\text{O}3$ Orionis Complex. II. Environmental Effects on Core Formation. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 51.	7.7	22
43	Compressed Magnetic Field in the Magnetically Regulated Global Collapsing Clump of G9.62+0.19. <i>Astrophysical Journal Letters</i> , 2018, 869, L5.	8.3	9
44	A First Look at BISTRO Observations of the $\rho\text{Oph-A}$ core. <i>Astrophysical Journal</i> , 2018, 859, 4.	4.5	46
45	A Holistic Perspective on the Dynamics of G035.39-00.33: The Interplay between Gas and Magnetic Fields. <i>Astrophysical Journal</i> , 2018, 859, 151.	4.5	57
46	<i>Herschel</i> and SCUBA-2 observations of dust emission in a sample of <i>Planck</i> cold clumps. <i>Astronomy and Astrophysics</i> , 2018, 612, A71.	5.1	20
47	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. <i>Astrophysical Journal</i> , 2018, 861, 65.	4.5	51
48	The MALATANG Survey: The $L_{\text{GAS}} \propto L_{\text{IR}}$ Correlation on Sub-kiloparsec Scale in Six Nearby Star-forming Galaxies as Traced by HCN $J=4-3$ and HCO ⁺ $J=4-3$. <i>Astrophysical Journal</i> , 2018, 860, 165.	5	35
49	First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. <i>Astrophysical Journal</i> , 2017, 842, 66.	4.5	79
50	ALMA: the first year of observations. , 2012, , .		2
51	ALMA science operations and user support: software. , 2010, , .		2
52	A Census of Dust Absorption at the Galactic Centre. <i>Astronomische Nachrichten</i> , 2003, 324, 211-215.	1.2	0