Timothy A Davis

List of Publications by Year
in descending order

112 papers	9,772 citations	47006 47 h-index	36028 97 g-index
113 all docs	113 docs citations	113 times ranked	5105 citing authors

#	Article	IF	Citations
1	WISDOM Project â€" X. The morphology of the molecular ISM in galaxy centres and its dependence on galaxy structure. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1522-1540.	4.4	17
2	The AGN fuelling/feedback cycle in nearby radio galaxies â€" IV. Molecular gas conditions and jetâ€"ISM interaction in NGCâ€°3100. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4485-4503.	4.4	13
3	VERTICO II: How H i-identified Environmental Mechanisms Affect the Molecular Gas in Cluster Galaxies. Astrophysical Journal, 2022, 933, 10.	4.5	17
4	WISDOM project â€" XI. Star formation efficiency in the bulge of the AGN-host Galaxy NGCÂ3169 with SITELLE and ALMA. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5035-5055.	4.4	7
5	Down but Not Out: Properties of the Molecular Gas in the Stripped Virgo Cluster Early-type Galaxy NGC 4526. Astrophysical Journal, 2022, 933, 90.	4.5	3
6	A self-supervised, physics-aware, Bayesian neural network architecture for modelling galaxy emission-line kinematics. Monthly Notices of the Royal Astronomical Society, 2021, 503, 574-585.	4.4	2
7	AlFoCS Â+ÂF3D â€" II. Unexpectedly low gas-to-dust ratios in the Fornax galaxy cluster. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4723-4742.	4.4	7
8	A massive stellar bulge in a regularly rotating galaxy 1.2 billion years after the Big Bang. Science, 2021, 371, 713-716.	12.6	53
9	WISDOM project â€" VIII. Multiscale feedback cycles in the brightest cluster galaxy NGCâ€°0708. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5179-5192.	4.4	15
10	The Evolution of NGC 7465 as Revealed by Its Molecular Gas Properties. Astrophysical Journal, 2021, 909, 98.	4.5	11
11	WISDOM project â€" VII. Molecular gas measurement of the supermassive black hole mass in the elliptical galaxy NGC 7052. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5984-5996.	4.4	16
12	WISDOM Project â€" IX. Giant molecular clouds in the lenticular galaxy NGC 4429: effects of shear and tidal forces on clouds. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4048-4085.	4.4	19
13	The MBHBMâ€ Project â€" II. Molecular gas kinematics in the lenticular galaxy NGCÂ3593 reveal a supermassive black hole. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2920-2939.	4.4	9
14	VERTICO: The Virgo Environment Traced in CO Survey. Astrophysical Journal, Supplement Series, 2021, 257, 21.	7.7	25
15	Cross-checking SMBH mass estimates in NGCÂ6958 â€" I. Stellar dynamics from adaptive optics-assisted MUSE observations. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5416-5436.	4.4	13
16	The HASHTAG Project: The First Submillimeter Images of the Andromeda Galaxy from the Ground. Astrophysical Journal, Supplement Series, 2021, 257, 52.	7.7	5
17	The MALATANG survey: dense gas and star formation from high-transition HCN and HCO+ maps of NGCâ€°253. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1276-1296.	4.4	9
18	Revealing the intermediate-mass black hole at the heart of the dwarf galaxy NGCâ€°404 with sub-parsec resolution ALMA observations. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4061-4078.	4.4	43

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19	Decoupling the rotation of stars and gas – II. The link between black hole activity and simulated IFU kinematics in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4542-4547.	4.4	17
20	AlFoCS + Fornax3D: resolved star formation in the Fornax cluster with ALMA and MUSE. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2155-2182.	4.4	26
21	Stellar initial mass function variation in massive early-type galaxies: the potential role of the deuterium abundance. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4051-4059.	4.4	1
22	The HASHTAG project I. A survey of CO(3–2) emission from the star forming disc of M31. Monthly Notices of the Royal Astronomical Society, 2020, 492, 195-209.	4.4	3
23	The AGN fuelling/feedback cycle in nearby radio galaxies – III. 3D relative orientations of radio jets and CO discs and their interaction. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5719-5731.	4.4	9
24	WISDOM project – VI. Exploring the relation between supermassive black hole mass and galaxy rotation with molecular gas. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1933-1952.	4.4	14
25	Centrally concentrated molecular gas driving galactic-scale ionized gas outflows in star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3802-3820.	4.4	6
26	The MBHBM$_{†}$ Project. I. Measurement of the Central Black Hole Mass in Spiral Galaxy NGC 3504 Using Molecular Gas Kinematics. Astrophysical Journal, 2020, 892, 68.	4.5	24
27	Jet-driven Galaxy-scale Gas Outflows in the Hyperluminous Quasar 3C 273. Astrophysical Journal, 2019, 879, 75.	4.5	30
28	Evolution of the cold gas properties of simulated post-starburst galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2447-2461.	4.4	28
29	The AGN fuelling/feedback cycle in nearby radio galaxies – II. Kinematics of the molecular gas. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3739-3757.	4.4	23
30	Gas accretion as fuel for residual star formation in Galaxy Zoo elliptical galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 489, L108-L113.	3.3	13
31	WISDOM project – V. Resolving molecular gas in Keplerian rotation around the supermassive black hole in NGC 0383. Monthly Notices of the Royal Astronomical Society, 2019, 490, 319-330.	4.4	32
32	The MASSIVE survey – XI. What drives the molecular gas properties of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1404-1423.	4.4	45
33	WISDOM project – IV. A molecular gas dynamical measurement of the supermassive black hole mass in NGC 524. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4359-4374.	4.4	28
34	The AGN fuelling/feedback cycle in nearby radio galaxies I. ALMA observations and early results. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4239-4259.	4.4	41
35	ALMA observations of massive molecular gas reservoirs in dusty early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4617-4629.	4.4	9
36	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. Astrophysical Journal, 2019, 886, 51.	4.5	71

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37	The ALMA Fornax Cluster Survey I: stirring and stripping of the molecular gas in cluster galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2251-2268.	4.4	62
38	Six new supermassive black hole mass determinations from adaptive-optics assisted SINFONI observations. Astronomy and Astrophysics, 2019, 625, A62.	5.1	31
39	Quantifying the impact of mergers on the angular momentum of simulated galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4956-4974.	4.4	113
40	The Close AGN Reference Survey (CARS): SOFIA Detects Spatially Resolved [C ii] Emission in the Luminous AGN HE 0433-1028*. Astrophysical Journal Letters, 2018, 866, L9.	8.3	0
41	CO Tully–Fisher relation of star-forming galaxies at = 0.05–0.3. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3319-3334.	4.4	11
42	WISDOM Project – III. Molecular gas measurement of the supermassive black hole mass in the barred lenticular galaxy NGC4429. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3818-3834.	4.4	45
43	An ALMA view of star formation efficiency suppression in early-type galaxies after gas-rich minor mergers. Monthly Notices of the Royal Astronomical Society, 2018, 476, 122-132.	4.4	28
44	The connection between mass, environment, and slow rotation in simulated galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4327-4345.	4.4	65
45	The MALATANG Survey: The L_{GAS}–L_{IR} Correlation on Sub-kiloparsec Scale in Six Nearby Star-forming Galaxies as Traced by HCN $J=4\rightarrow3$ and HCO^{+} $J=4\rightarrow3$. Astrophysical Journal, 2018, 860, 165.	4.5	35
46	The MASSIVE Survey. VI. The Spatial Distribution and Kinematics of Warm Ionized Gas in the Most Massive Local Early-type Galaxies. Astrophysical Journal, 2017, 837, 40.	4.5	27
47	Angular momentum evolution of galaxies in EAGLE. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3850-3870.	4.4	126
48	A Multi-wavelength Study of the Turbulent Central Engine of the Low-mass AGN Hosted by NGC 404. Astrophysical Journal, 2017, 845, 50.	4.5	29
49	Star formation in nearby early-type galaxies: the radio continuum perspective. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1029-1064.	4.4	27
50	Spatially resolved variations of the IMF mass normalization in early-type galaxies as probed by molecular gas kinematics. Monthly Notices of the Royal Astronomical Society, 2017, 464, 453-468.	4.4	45
51	WISDOM project – I. Black hole mass measurement using molecular gas kinematics in NGC 3665. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4663-4674.	4.4	43
52	WISDOM Project – II. Molecular gas measurement of the supermassive black hole mass in NGC 4697. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4675-4690.	4.4	57
53	Molecular gas kinematics and line diagnostics in early-type galaxies: NGC 4710 and NGC 5866. Monthly Notices of the Royal Astronomical Society, 2016, 463, 4121-4152.	4.4	8
54	The atlas^{3D} Project – XXXI. Nuclear radio emission in nearby early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2221-2268.	4.4	53

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55	The Tully–Fisher relation of COLD GASS Galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3494-3515.	4.4	21
56	Cold, clumpy accretion onto an active supermassive black hole. Nature, 2016, 534, 218-221.	27.8	137
57	On the depletion and accretion time-scales of cold gas in local early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 457, 272-280.	4.4	44
58	The MASSIVE survey – III. Molecular gas and a broken Tully–Fisher relation in the most massive early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 455, 214-226.	4.4	43
59	Molecular and atomic gas in dust lane early-type galaxies – I. Low star formation efficiencies in minor merger remnants. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3503-3516.	4.4	56
60	SUPPRESSION OF STAR FORMATION IN NGC 1266. Astrophysical Journal, 2015, 798, 31.	4.5	111
61	Evidence of boosted 13CO/12CO ratio in early-type galaxies in dense environments. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3874-3885.	4.4	27
62	The ATLAS3D Project – XXX. Star formation histories and stellar population scaling relations of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 448, 3484-3513.	4.4	326
63	The origin of the atomic and molecular gas contents of early-type galaxies – II. Misaligned gas accretion. Monthly Notices of the Royal Astronomical Society, 2015, 448, 1271-1287.	4.4	49
64	The creation and persistence of a misaligned gas disc in a simulated early-type galaxy. Monthly Notices of the Royal Astronomical Society, 2015, 451, 3269-3277.	4.4	68
65	The ATLAS3D project – XXIX. The new look of early-type galaxies and surrounding fields disclosed by extremely deep optical images. Monthly Notices of the Royal Astronomical Society, 2015, 446, 120-143.	4.4	243
66	The H‰I Tully-Fisher relation of early-type galaxies. Astronomy and Astrophysics, 2015, 581, A98.	5.1	48
67	ALMA resolves turbulent, rotating [CII] emission in a young starburst galaxy at z = 4.8. Astronomy and Astrophysics, 2014, 565, A59.	5.1	99
68	The ATLAS3D project – XXVI. H‰i discs in real and simulated fast and slow rotators. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3388-3407.	4.4	58
69	The ATLAS3D project – XXVII. Cold gas and the colours and ages of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3408-3426.	4.4	92
70	The origin of the atomic and molecular gas contents of early-type galaxies – I. A new test of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1002-1021.	4.4	69
71	A figure of merit for black hole mass measurements with molecular gas. Monthly Notices of the Royal Astronomical Society, 2014, 443, 911-918.	4.4	31
72	The ATLAS 3D project – XXIV. The intrinsic shape distribution of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3340-3356.	4.4	100

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73	CONNECTION BETWEEN DYNAMICALLY DERIVED INITIAL MASS FUNCTION NORMALIZATION AND STELLAR POPULATION PARAMETERS. Astrophysical Journal Letters, 2014, 792, L37.	8.3	40
74	Molecular gas properties of the giant molecular cloud complexes in the arms and inter-arms of the spiral galaxy NGC 6946. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1434-1455.	4.4	8
75	Systematic variation of the 12CO/13CO ratio as a function of star formation rate surface density. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2378-2384.	4.4	34
76	NGC 1266 AS A LOCAL CANDIDATE FOR RAPID CESSATION OF STAR FORMATION. Astrophysical Journal, 2014, 780, 186.	4.5	31
77	A 30 kpc CHAIN OF "BEADS ON A STRING" STAR FORMATION BETWEEN TWO MERGING EARLY TYPE GALAXIES IN THE CORE OF A STRONG-LENSING GALAXY CLUSTER. Astrophysical Journal Letters, 2014, 790, L26.	8.3	12
78	The ATLAS3D Project – XXVIII. Dynamically driven star formation suppression in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3427-3445.	4.4	150
79	A black-hole mass measurement from molecular gas kinematics in NGC4526. Nature, 2013, 494, 328-330.	27.8	82
80	The ATLAS3D project – XV. Benchmark for early-type galaxies scaling relations from 260 dynamical models: mass-to-light ratio, dark matter, Fundamental Plane and Mass Plane. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1709-1741.	4.4	532
81	The ATLAS3D project – XXII. Low-efficiency star formation in early-type galaxies: hydrodynamic models and observations. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1914-1927.	4.4	94
82	The ATLAS3D project – XIX. The hot gas content of early-type galaxies: fast versus slow rotators. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1845-1861.	4.4	50
83	The ATLAS3D Project – XXIII. Angular momentum and nuclear surface brightness profiles. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2812-2839.	4.4	60
84	Discovery of a giant H‰i tail in the galaxy group HCG 44. Monthly Notices of the Royal Astronomical Society, 2013, 428, 370-380.	4.4	53
85	ISM chemistry in metal-rich environments: molecular tracers of metallicity. Monthly Notices of the Royal Astronomical Society, 2013, 433, 1659-1674.	4.4	15
86	The ATLAS3D project – XVII. Linking photometric and kinematic signatures of stellar discs in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1768-1795.	4.4	127
87	The molecular ISM in luminous infrared galaxies: a λ=3‰mm line survey of Arp 157. Monthly Notices of the Royal Astronomical Society, 2013, 436, 570-583.	4.4	11
88	The ATLAS3D project – XX. Mass–size and mass–σ distributions of early-type galaxies: bulge fraction drives kinematics, mass-to-light ratio, molecular gas fraction and stellar initial mass function. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1862-1893.	4.4	496
89	The ATLAS3D Project – XIV. The extent and kinematics of the molecular gas in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 429, 534-555.	4.4	175
90	The ATLAS3D project – XVI. Physical parameters and spectral line energy distributions of the molecular gas in gas-rich early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1742-1767.	4.4	17

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91	The ATLAS3D project â€" XVIII. CARMA CO imaging survey of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1796-1844.	4.4	121
92	The ATLAS3D project â€" XXI. Correlations between gradients of local escape velocity and stellar populations in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1894-1913.	4.4	73
93	DETECTION OF A HIGH BRIGHTNESS TEMPERATURE RADIO CORE IN THE ACTIVE-GALACTIC-NUCLEUS-DRIVEN MOLECULAR OUTFLOW CANDIDATE NGC 1266. Astrophysical Journal, 2013, 779, 173.	4.5	46
94	Gemini GMOS and WHT SAURON integral-field spectrograph observations of the AGN-driven outflow in NGCâ€‰1266. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1574-1590.	4.4	48
95	Systematic variation of the stellar initial mass function in early-type galaxies. Nature, 2012, 484, 485-488.	27.8	496
96	The ATLAS^{3D}project - XI. Dense molecular gas properties of CO-luminous early-type galaxies$^{˜...}$. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1298-1314.	4.4	70
97	The ATLAS3D project - XIII. Mass and morphology of Hâ€ƒi in early-type galaxies as a function of environment. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1835-1862.	4.4	326
98	The coronal X-ray-age relation and its implications for the evaporation of exoplanets. Monthly Notices of the Royal Astronomical Society, 2012, 422, 2024-2043.	4.4	174
99	The ATLAS project - XII. Recovery of the mass-to-light ratio of simulated early-type barred galaxies with axisymmetric dynamical models. Monthly Notices of the Royal Astronomical Society, 2012, 424, 1495-1521.	4.4	44
100	The ATLAS3D project - V. The CO Tully-Fisher relation of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 414, 968-984.	4.4	61
101	The ATLAS3D project - I. A volume-limited sample of 260 nearby early-type galaxies: science goals and selection criteria. Monthly Notices of the Royal Astronomical Society, 2011, 413, 813-836.	4.4	867
102	The ATLAS3D project - III. A census of the stellar angular momentum within the effective radius of early-type galaxies: unveiling the distribution of fast and slow rotators. Monthly Notices of the Royal Astronomical Society, 2011, 414, 888-912.	4.4	587
103	The ATLAS3D project - II. Morphologies, kinemetric features and alignment between photometric and kinematic axes of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2923-2949.	4.4	378
104	The ATLAS3D project - IV. The molecular gas content of early-type galaxies˜…. Monthly Notices of the Royal Astronomical Society, 2011, 414, 940-967.	4.4	334
105	The ATLAS3D project - VII. A new look at the morphology of nearby galaxies: the kinematic morphology-density relation. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1680-1696.	4.4	354
106	The ATLAS3D project - VI. Simulations of binary galaxy mergers and the link with fast rotators, slow rotators and kinematically distinct cores. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1654-1679.	4.4	164
107	The ATLAS3D project - IX. The merger origin of a fast- and a slow-rotating early-type galaxy revealed with deep optical imaging: first results. Monthly Notices of the Royal Astronomical Society, 2011, 417, 863-881.	4.4	87
108	The ATLAS3D project - X. On the origin of the molecular and ionized gas in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 417, 882-899.	4.4	235

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109	The ATLAS3D project - VIII. Modelling the formation and evolution of fast and slow rotator early-type galaxies within ΛCDM. Monthly Notices of the Royal Astronomical Society, 2011, 417, 845-862.	4.4	87
110	High Excitation Molecular Gas in the Galactic Center Loops; 12CO ($J = 2-1$ and $J = 3-2$) Observations. Publication of the Astronomical Society of Japan, 2011, 63, 171-197.	2.5	14
111	Evidence for a lost population of close-in exoplanets. Monthly Notices of the Royal Astronomical Society, 2009, 396, 1012-1017.	4.4	81
112	Using machine learning to study the kinematics of cold gas in galaxies. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	4