

Timothy A Davis

List of Publications by Year in descending order

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papers

9,772
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47006

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times ranked

5105
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#	ARTICLE	IF	CITATIONS
1	The ATLAS3D project - I. A volume-limited sample of 260 nearby early-type galaxies: science goals and selection criteria. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 813-836.	4.4	867
2	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. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 888-912.	4.4	587
3	The ATLAS3D project â€“ XV. Benchmark for early-type galaxies scaling relations from 260 dynamical models: mass-to-light ratio, dark matter, Fundamental Plane and Mass Plane. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1709-1741.	4.4	532
4	Systematic variation of the stellar initial mass function in early-type galaxies. <i>Nature</i> , 2012, 484, 485-488.	27.8	496
5	The ATLAS3D project â€“ XX. Massâ€“size and massâ€“lf distributions of early-type galaxies: bulge fraction drives kinematics, mass-to-light ratio, molecular gas fraction and stellar initial mass function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1862-1893.	4.4	496
6	The ATLAS3D project - II. Morphologies, kinematic features and alignment between photometric and kinematic axes of early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2923-2949.	4.4	378
7	The ATLAS3D project - VII. A new look at the morphology of nearby galaxies: the kinematic morphology-density relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1680-1696.	4.4	354
8	The ATLAS3D project - IV. The molecular gas content of early-type galaxiesâ€“.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 940-967.	4.4	334
9	The ATLAS3D project - XIII. Mass and morphology of Hâ€“fi in early-type galaxies as a function of environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 1835-1862.	4.4	326
10	The ATLAS3D Project â€“ XXX. Star formation histories and stellar population scaling relations of early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 3484-3513.	4.4	326
11	The ATLAS3D project â€“ XXIX. The new look of early-type galaxies and surrounding fields disclosed by extremely deep optical images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 120-143.	4.4	243
12	The ATLAS3D project - X. On the origin of the molecular and ionized gas in early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 882-899.	4.4	235
13	The ATLAS3D Project â€“ XIV. The extent and kinematics of the molecular gas in early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 534-555.	4.4	175
14	The coronal X-ray-age relation and its implications for the evaporation of exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 2024-2043.	4.4	174
15	The ATLAS3D project - VI. Simulations of binary galaxy mergers and the link with fast rotators, slow rotators and kinematically distinct cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1654-1679.	4.4	164
16	The ATLAS3D Project â€“ XXVIII. Dynamically driven star formation suppression in early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 3427-3445.	4.4	150
17	Cold, clumpy accretion onto an active supermassive black hole. <i>Nature</i> , 2016, 534, 218-221.	27.8	137
18	The ATLAS3D project â€“ XVII. Linking photometric and kinematic signatures of stellar discs in early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1768-1795.	4.4	127

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19	Angular momentum evolution of galaxies in EAGLE. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3850-3870.	4.4	126
20	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
21	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
22	SUPPRESSION OF STAR FORMATION IN NGC 1266. Astrophysical Journal, 2015, 798, 31.	4.5	111
23	The ATLAS 3D project â€“ XXIV. The intrinsic shape distribution of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3340-3356.	4.4	100
24	ALMA resolves turbulent, rotating [CII] emission in a young starburst galaxy at $z = 4.8$. Astronomy and Astrophysics, 2014, 565, A59.	5.1	99
25	The ATLAS3D project â€“ 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
26	The ATLAS3D project â€“ 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
27	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
28	The ATLAS3D project - VIII. Modelling the formation and evolution of fast and slow rotator early-type galaxies within Λ CDM. Monthly Notices of the Royal Astronomical Society, 2011, 417, 845-862.	4.4	87
29	A black-hole mass measurement from molecular gas kinematics in NGC4526. Nature, 2013, 494, 328-330.	27.8	82
30	Evidence for a lost population of close-in exoplanets. Monthly Notices of the Royal Astronomical Society, 2009, 396, 1012-1017.	4.4	81
31	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
32	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. Astrophysical Journal, 2019, 886, 51.	4.5	71
33	The ATLAS ^{3D} project - XI. Dense molecular gas properties of CO-luminous early-type galaxies ^{â€“} . Monthly Notices of the Royal Astronomical Society, 2012, 421, 1298-1314.	4.4	70
34	The origin of the atomic and molecular gas contents of early-type galaxies â€“ I. A new test of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1002-1021.	4.4	69
35	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
36	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

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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	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
39	The ATLAS3D Project â€“ XXIII. Angular momentum and nuclear surface brightness profiles. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2812-2839.	4.4	60
40	The ATLAS3D project â€“ XXVI. H ₂ discs in real and simulated fast and slow rotators. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3388-3407.	4.4	58
41	WISDOM Project â€“ 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
42	Molecular and atomic gas in dust lane early-type galaxies â€“ I. Low star formation efficiencies in minor merger remnants. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3503-3516.	4.4	56
43	Discovery of a giant H ₂ tail in the galaxy group HCG 44. Monthly Notices of the Royal Astronomical Society, 2013, 428, 370-380.	4.4	53
44	The atlas ^{3D} Project â€“ XXXI. Nuclear radio emission in nearby early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2221-2268.	4.4	53
45	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
46	The ATLAS3D project â€“ 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
47	The origin of the atomic and molecular gas contents of early-type galaxies â€“ II. Misaligned gas accretion. Monthly Notices of the Royal Astronomical Society, 2015, 448, 1271-1287.	4.4	49
48	Gemini GMOS and WHT SAURON integral-field spectrograph observations of the AGN-driven outflow in NGC 1266. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1574-1590.	4.4	48
49	The H ₂ Tully-Fisher relation of early-type galaxies. Astronomy and Astrophysics, 2015, 581, A98.	5.1	48
50	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
51	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
52	WISDOM Project â€“ 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
53	The MASSIVE survey â€“ 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
54	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

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55	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
56	The MASSIVE survey â€“ III. Molecular gas and a broken Tullyâ€“Fisher relation in the most massive early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 455, 214-226.	4.4	43
57	WISDOM project â€“ 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
58	Revealing the intermediate-mass black hole at the heart of the dwarf galaxy NGC 404 with sub-parsec resolution ALMA observations. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4061-4078.	4.4	43
59	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
60	CONNECTION BETWEEN DYNAMICALLY DERIVED INITIAL MASS FUNCTION NORMALIZATION AND STELLAR POPULATION PARAMETERS. Astrophysical Journal Letters, 2014, 792, L37.	8.3	40
61	The MALATANG Survey: The L_{GAS} vs L_{IR} Correlation on Sub-kiloparsec Scale in Six Nearby Star-forming Galaxies as Traced by HCN $J=4-3$ and HCO^+ $J=4-3$. Astrophysical Journal, 2018, 860, 165.		35
62	Systematic variation of the $12\text{CO}/13\text{CO}$ ratio as a function of star formation rate surface density. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2378-2384.	4.4	34
63	WISDOM project â€“ 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
64	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
65	NGC 1266 AS A LOCAL CANDIDATE FOR RAPID CESSATION OF STAR FORMATION. Astrophysical Journal, 2014, 780, 186.	4.5	31
66	Six new supermassive black hole mass determinations from adaptive-optics assisted SINFONI observations. Astronomy and Astrophysics, 2019, 625, A62.	5.1	31
67	Jet-driven Galaxy-scale Gas Outflows in the Hyperluminous Quasar 3C 273. Astrophysical Journal, 2019, 879, 75.	4.5	30
68	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
69	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
70	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
71	WISDOM project â€“ 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
72	Evidence of boosted $13\text{CO}/12\text{CO}$ ratio in early-type galaxies in dense environments. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3874-3885.	4.4	27

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73	The MASSIVE Survey. VI. The Spatial Distribution and Kinematics of Warm Ionized Gas in the Most Massive Local Early-type Galaxies. <i>Astrophysical Journal</i> , 2017, 837, 40.	4.5	27
74	Star formation in nearby early-type galaxies: the radio continuum perspective. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 1029-1064.	4.4	27
75	ALFoCS + Fornax3D: resolved star formation in the Fornax cluster with ALMA and MUSE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2155-2182.	4.4	26
76	VERTICO: The Virgo Environment Traced in CO Survey. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 21.	7.7	25
77	The MBHBM Project. I. Measurement of the Central Black Hole Mass in Spiral Galaxy NGC 3504 Using Molecular Gas Kinematics. <i>Astrophysical Journal</i> , 2020, 892, 68.	4.5	24
78	The AGN fuelling/feedback cycle in nearby radio galaxies II. Kinematics of the molecular gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 3739-3757.	4.4	23
79	The Tully-Fisher relation of COLD GASS Galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 3494-3515.	4.4	21
80	WISDOM Project IX. Giant molecular clouds in the lenticular galaxy NGC 4429: effects of shear and tidal forces on clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4048-4085.	4.4	19
81	The ATLAS3D project XVI. Physical parameters and spectral line energy distributions of the molecular gas in gas-rich early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1742-1767.	4.4	17
82	Decoupling the rotation of stars and gas II. The link between black hole activity and simulated IFU kinematics in IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 4542-4547.	4.4	17
83	WISDOM Project X. The morphology of the molecular ISM in galaxy centres and its dependence on galaxy structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1522-1540.	4.4	17
84	VERTICO II: How H I-identified Environmental Mechanisms Affect the Molecular Gas in Cluster Galaxies. <i>Astrophysical Journal</i> , 2022, 933, 10.	4.5	17
85	WISDOM project VII. Molecular gas measurement of the supermassive black hole mass in the elliptical galaxy NGC 7052. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 5984-5996.	4.4	16
86	ISM chemistry in metal-rich environments: molecular tracers of metallicity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 1659-1674.	4.4	15
87	WISDOM project VIII. Multiscale feedback cycles in the brightest cluster galaxy NGC 0708. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 5179-5192.	4.4	15
88	High Excitation Molecular Gas in the Galactic Center Loops; $^{12}\text{CO}(\text{J} = 2 \rightarrow 1)$ and $^{13}\text{CO}(\text{J} = 3 \rightarrow 2)$ Observations. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 171-197.	2.5	14
89	WISDOM project VI. Exploring the relation between supermassive black hole mass and galaxy rotation with molecular gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1933-1952.	4.4	14
90	Gas accretion as fuel for residual star formation in Galaxy Zoo elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 489, L108-L113.	3.3	13

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91	Cross-checking SMBH mass estimates in NGC 6958 – I. Stellar dynamics from adaptive optics-assisted MUSE observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 5416-5436.	4.4	13
92	The AGN fuelling/feedback cycle in nearby radio galaxies – IV. Molecular gas conditions and jet-ISM interaction in NGC 3100. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4485-4503.	4.4	13
93	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. <i>Astrophysical Journal Letters</i> , 2014, 790, L26.	8.3	12
94	The molecular ISM in luminous infrared galaxies: a 3 mm line survey of Arp 157. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 570-583.	4.4	11
95	CO Tully-Fisher relation of star-forming galaxies at $z = 0.05-0.3$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3319-3334.	4.4	11
96	The Evolution of NGC 7465 as Revealed by Its Molecular Gas Properties. <i>Astrophysical Journal</i> , 2021, 909, 98.	4.5	11
97	ALMA observations of massive molecular gas reservoirs in dusty early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4617-4629.	4.4	9
98	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
99	The AGN fuelling/feedback cycle in nearby radio galaxies – III. 3D relative orientations of radio jets and CO discs and their interaction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5719-5731.	4.4	9
100	The MBHMAP Project – II. Molecular gas kinematics in the lenticular galaxy NGC 3593 reveal a supermassive black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 2920-2939.	4.4	9
101	Molecular gas properties of the giant molecular cloud complexes in the arms and inter-arms of the spiral galaxy NGC 6946. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 1434-1455.	4.4	8
102	Molecular gas kinematics and line diagnostics in early-type galaxies: NGC 4710 and NGC 5866. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 4121-4152.	4.4	8
103	ALFoCS 3D – II. Unexpectedly low gas-to-dust ratios in the Fornax galaxy cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 4723-4742.	4.4	7
104	WISDOM project – XI. Star formation efficiency in the bulge of the AGN-host Galaxy NGC 3169 with SITELLE and ALMA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 5035-5055.	4.4	7
105	Centrally concentrated molecular gas driving galactic-scale ionized gas outflows in star-forming galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3802-3820.	4.4	6
106	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
107	Using machine learning to study the kinematics of cold gas in galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	4
108	The HASHTAG project I. A survey of CO(3-2) emission from the star forming disc of M31. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 195-209.	4.4	3

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109	Down but Not Out: Properties of the Molecular Gas in the Stripped Virgo Cluster Early-type Galaxy NGC 4526. <i>Astrophysical Journal</i> , 2022, 933, 90.	4.5	3
110	A self-supervised, physics-aware, Bayesian neural network architecture for modelling galaxy emission-line kinematics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 574-585.	4.4	2
111	Stellar initial mass function variation in massive early-type galaxies: the potential role of the deuterium abundance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4051-4059.	4.4	1
112	The Close AGN Reference Survey (CARS): SOFIA Detects Spatially Resolved [C ii] Emission in the Luminous AGN HE 0433-1028. <i>Astrophysical Journal Letters</i> , 2018, 866, L9.	8.3	0