James D Neill

List of Publications by Year
in descending order

82 papers	7,482 citations	87888 38 h-index	58581 82 g-index
82 all docs	82 docs citations	82 times ranked	5870 citing authors

#	Article	IF	Citations
1	The Supernova Legacy Survey: measurement of $Omega_{mathsf{M}}$, $Omega_mathsf{Lambda}$ andwfrom the first year data set. Astronomy and Astrophysics, 2006, 447, 31-48.	5.1	2,091
2	The type Ia supernova SNLS-03D3bb from a super-Chandrasekhar-mass white dwarf star. Nature, 2006, 443, 308-311.	27.8	433
3	Rates and Properties of Type Ia Supernovae as a Function of Mass and Star Formation in Their Host Galaxies. Astrophysical Journal, 2006, 648, 868-883.	4.5	430
4	An ultravioletâ€“optical flare from the tidal disruption of a helium-rich stellar core. Nature, 2012, 485, 217-220.	27.8	373
5	Planetary nebulae as standard candles. II - The calibration in M31 and its companions. Astrophysical Journal, 1989, 339, 53.	4.5	253
6	GIANT SPARKS AT COSMOLOGICAL DISTANCES?. Astrophysical Journal, 2014, 797, 70.	4.5	176
7	iPTF16geu: A multiply imaged, gravitationally lensed type Ia supernova. Science, 2017, 356, 291-295.	12.6	168
8	Gemini Spectroscopy of Supernovae from the Supernova Legacy Survey: Improving Highâ€Redshift Supernova Selection and Classification. Astrophysical Journal, 2005, 634, 1190-1201.	4.5	160
9	SUPERNOVA PTF 09UJ: A POSSIBLE SHOCK BREAKOUT FROM A DENSE CIRCUMSTELLAR WIND. Astrophysical Journal, 2010, 724, 1396-1401.	4.5	152
10	The fast, luminous ultraviolet transient AT2018cow: extreme supernova, or disruption of a star by an intermediate-mass black hole?. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1031-1049.	4.4	136
11	The SED Machine: A Robotic Spectrograph for Fast Transient Classification. Publications of the Astronomical Society of the Pacific, 2018, 130, 035003.	3.1	132
12	Toward a Cosmological Hubble Diagram for Type IIâ€P Supernovae. Astrophysical Journal, 2006, 645, 841-850.	4.5	126
13	The Keck Cosmic Web Imager Integral Field Spectrograph. Astrophysical Journal, 2018, 864, 93.	4.5	126
14	From Spitzer Galaxy photometry to Tullyâ€“Fisher distances. Monthly Notices of the Royal Astronomical Society, 2014, 444, 527-541.	4.4	115
15	iPTF16fnl: A Faint and Fast Tidal Disruption Event in an E+A Galaxy. Astrophysical Journal, 2017, 844, 46.	4.5	111
16	A turbulent wake as a tracer of 30,000â€‰years of Miraâ€™s mass loss history. Nature, 2007, 448, 780-783.	27.8	109
17	The Zwicky Transient Facility Bright Transient Survey. II. A Public Statistical Sample for Exploring Supernova Demographics*. Astrophysical Journal, 2020, 904, 35.	4.5	107
18	PROBING THE INTERGALACTIC MEDIUM WITH FAST RADIO BURSTS. Astrophysical Journal, 2014, 797, 71.	4.5	98

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19	iPTF Discovery of the Rapid â€œTurn-onâ€•of a Luminous Quasar. Astrophysical Journal, 2017, 835, 144.	4.5	97
20	The Zwicky Transient Facility Bright Transient Survey. I. Spectroscopic Classification and the Redshift Completeness of Local Galaxy Catalogs. Astrophysical Journal, 2020, 895, 32.	4.5	91
21	The spatial distribution and population of novae in M31. Astrophysical Journal, 1987, 318, 520.	4.5	91
22	Fully automated integral field spectrograph pipeline for the SEDMachine: pysedm. Astronomy and Astrophysics, 2019, 627, A115.	5.1	89
23	GROWTH on S190425z: Searching Thousands of Square Degrees to Identify an Optical or Infrared Counterpart to a Binary Neutron Star Merger with the Zwicky Transient Facility and Palomar Gattini-IR. Astrophysical Journal Letters, 2019, 885, L19.	8.3	86
24	ZTF Early Observations of Type Ia Supernovae. I. Properties of the 2018 Sample. Astrophysical Journal, 2019, 886, 152.	4.5	77
25	The First Tidal Disruption Flare in ZTF: From Photometric Selection to Multi-wavelength Characterization. Astrophysical Journal, 2019, 872, 198.	4.5	74
26	A giant protogalactic disk linked to the cosmic web. Nature, 2015, 524, 192-195.	27.8	70
27	A New Class of Changing-look LINERs. Astrophysical Journal, 2019, 883, 31.	4.5	66
28	Cosmicflows-4: The Calibration of Optical and Infrared Tullyâ€“Fisher Relations. Astrophysical Journal, 2020, 896, 3.	4.5	59
29	Bright, Months-long Stellar Outbursts Announce the Explosion of Interaction-powered Supernovae. Astrophysical Journal, 2021, 907, 99.	4.5	59
30	The Zwicky Transient Facility Census of the Local Universe. I. Systematic Search for Calcium-rich Gap Transients Reveals Three Related Spectroscopic Subclasses. Astrophysical Journal, 2020, 905, 58.	4.5	57
31	The Palomar Transient Factory Core-collapse Supernova Host-galaxy Sample. I. Host-galaxy Distribution Functions and Environment Dependence of Core-collapse Supernovae. Astrophysical Journal, Supplement Series, 2021, 255, 29.	7.7	56
32	THEGALEXTIME DOMAIN SURVEY. I. SELECTION AND CLASSIFICATION OF OVER A THOUSAND ULTRAVIOLET VARIABLE SOURCES. Astrophysical Journal, 2013, 766, 60.	4.5	48
33	CLASSICAL NOVAE IN ANDROMEDA: LIGHT CURVES FROM THE PALOMAR TRANSIENT FACTORY ANDGALEX. Astrophysical Journal, 2012, 752, 133.	4.5	46
34	Real-time discovery of AT2020xnd: a fast, luminous ultraviolet transient with minimal radioactive ejecta. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5138-5147.	4.4	44
35	Direct evidence of AGN feedback: a post-starburst galaxy stripped of its gas by AGN-driven winds. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3993-4016.	4.4	43
36	Cosmicflows-4: The Catalog of â^¼10,000 Tullyâ€“Fisher Distances. Astrophysical Journal, 2020, 902, 145.	4.5	43

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37	Keck/Palomar Cosmic Web Imagers Reveal an Enormous LyÎ± Nebula in an Extremely Overdense Quasi-stellar Object Pair Field at zÂ=Â2.45. Astrophysical Journal Letters, 2018, 861, L3.	8.3	41
38	Three Lyman-Î±-emitting filaments converging to a massive galaxy group at z = 2.91: discussing the case for cold gas infall. Astronomy and Astrophysics, 2021, 649, A78.	5.1	41
39	Nova multiwavelength light curves: predicting UV precursor flashes and pre-maximum halts. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1962-1975.	4.4	40
40	The H-alpha light curves of novae in M31. Astrophysical Journal, 1990, 356, 472.	4.5	37
41	DEEPGALEXUV SURVEY OF THEKEPLERFIELD. I. POINT SOURCE CATALOG. Astrophysical Journal, 2015, 813, 100.	4.5	35
42	A NEWLY FORMING COLD FLOW PROTOGALACTIC DISK, A SIGNATURE OF COLD ACCRETION FROM THE COSMIC WEB. Astrophysical Journal Letters, 2016, 824, L5.	8.3	35
43	Multi-filament gas inflows fuelling young star-forming galaxies. Nature Astronomy, 2019, 3, 822-831.	10.1	34
44	The FLASHES Survey. I. Integral Field Spectroscopy of the CGM around 48 zÂâ‰ƒÂ2.3â€“3.1 QSOs. Astrophysical Journal, 2020, 894, 3.	4.5	34
45	The Keck Cosmic Web Imager: a capable new integral field spectrograph for the W. M. Keck Observatory. Proceedings of SPIE, 2012, , .	0.8	33
46	Andromedaâ€™s Parachute: A Bright Quadruply Lensed Quasar at zÂ=Â2.377. Astrophysical Journal, 2018, 859, 146.	4.5	32
47	THE CALIBRATION OF THEWISEW1 AND W2 TULLY-FISHER RELATION. Astrophysical Journal, 2014, 792, 129.	4.5	31
48	iPTF 16hgs: A Double-peaked Ca-rich Gap Transient in a Metal-poor, Star-forming Dwarf Galaxy. Astrophysical Journal, 2018, 866, 72.	4.5	31
49	Tramp Novae between Galaxies in the Fornax Cluster: Tracers of Intracluster Light. Astrophysical Journal, 2005, 618, 692-704.	4.5	30
50	ON THE CLASSIFICATION OF UGC 1382 AS A GIANT LOW SURFACE BRIGHTNESS GALAXY. Astrophysical Journal, 2016, 826, 210.	4.5	29
51	Characterization of the Nucleus, Morphology, and Activity of Interstellar Comet 2I/Borisov by Optical and Near-infrared GROWTH, Apache Point, IRTF, ZTF, and Keck Observations. Astronomical Journal, 2020, 160, 26.	4.7	28
52	A Hubble Space Telescope Survey for Novae in M87. II. Snuffing out the Maximum Magnitudeâ€“Rate of Decline Relation for Novae as a Non-standard Candle, and a Prediction of the Existence of Ultrafast Novae[*]. Astrophysical Journal, 2017, 839, 109.	4.5	27
53	2900 Square Degree Search for the Optical Counterpart of Short Gamma-Ray Burst GRB 180523B with the Zwicky Transient Facility. Publications of the Astronomical Society of the Pacific, 2019, 131, 048001.	3.1	27
54	A HUBBLE SPACE TELESCOPE SURVEY FOR NOVAE IN M87. I. LIGHT AND COLOR CURVES, SPATIAL DISTRIBUTIONS, AND THE NOVA RATE*. Astrophysical Journal, Supplement Series, 2016, 227, 1.	7.7	25

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55	SN 2020bvc: A Broad-line Type Ic Supernova with a Double-peaked Optical Light Curve and a Luminous X-Ray and Radio Counterpart. Astrophysical Journal, 2020, 902, 86.	4.5	25
56	The H Light Curves and Spatial Distribution of Novae in M81. Astronomical Journal, 2004, 127, 816-831.	4.7	24
57	ZTF18aalrxas: A Type IIb Supernova from a Very Extended Low-mass Progenitor. Astrophysical Journal Letters, 2019, 878, L5.	8.3	24
58	ZTF20aajnksq (AT 2020blt): A Fast Optical Transient at zÂâ‰ˆÂ2.9 with No Detected Gamma-Ray Burst Counterpart. Astrophysical Journal, 2020, 905, 98.	4.5	24
59	Cataclysmic Variables in the First Year of the Zwicky Transient Facility. Astronomical Journal, 2020, 159, 198.	4.7	22
60	Supernova PTF 12glz: A Possible Shock Breakout Driven through an Aspherical Wind. Astrophysical Journal, 2019, 872, 141.	4.5	20
61	Discovery of an Intermediate-luminosity Red Transient in M51 and Its Likely Dust-obscured, Infrared-variable Progenitor. Astrophysical Journal Letters, 2019, 880, L20.	8.3	19
62	The Dark Matter Distributions in Low-mass Disk Galaxies. II. The Inner Density Profiles. Astrophysical Journal, 2019, 887, 94.	4.5	19
63	A Non-equipartition Shock Wave Traveling in a Dense Circumstellar Environment around SN 2020oi. Astrophysical Journal, 2020, 903, 132.	4.5	19
64	An Ancient Massive Quiescent Galaxy Found in a Gas-rich z âˆ¼ 3 Group. Astrophysical Journal Letters, 2021, 917, L17.	8.3	18
65	SN 2018fif: The Explosion of a Large Red Supergiant Discovered in Its Infancy by the Zwicky Transient Facility. Astrophysical Journal, 2020, 902, 6.	4.5	18
66	Helium-rich Superluminous Supernovae from the Zwicky Transient Facility. Astrophysical Journal Letters, 2020, 902, L8.	8.3	18
67	EXPLORING THE ROLE OF GLOBULAR CLUSTER SPECIFIC FREQUENCY ON THE NOVA RATES IN THREE VIRGO ELLIPTICAL GALAXIES. Astrophysical Journal, 2015, 811, 34.	4.5	17
68	The luminous and rapidly evolving SN 2018bcc. Astronomy and Astrophysics, 2021, 649, A163.	5.1	14
69	New Modules for the SEDMachine to Remove Contaminations from Cosmic Rays and Non-target Light: byecr and contsep. Publications of the Astronomical Society of the Pacific, 2022, 134, 024505.	3.1	14
70	THE GALEX TIME DOMAIN SURVEY. II. WAVELENGTH-DEPENDENT VARIABILITY OF ACTIVE GALACTIC NUCLEI IN THE PAN-STARRS1 MEDIUM DEEP SURVEY. Astrophysical Journal, 2016, 833, 226.	4.5	12
71	iPTF Survey for Cool Transients. Publications of the Astronomical Society of the Pacific, 2018, 130, 034202.	3.1	12
72	Discovery of a LyÎ±-emitting Dark Cloud within the zÂâˆ¼Â2.8 SMM J02399-0136 System. Astrophysical Journal, 2019, 875, 130.	4.5	11

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73	SNIascore: Deep-learning Classification of Low-resolution Supernova Spectra. Astrophysical Journal Letters, 2021, 917, L2.	8.3	11
74	The Broad-lined Ic Supernova ZTF18aaqjovh (SN 2018bvw): An Optically Discovered Engine-driven Supernova Candidate with Luminous Radio Emission. Astrophysical Journal, 2020, 893, 132.	4.5	11
75	A blue ring nebula from a stellar merger several thousand years ago. Nature, 2020, 587, 387-391.	27.8	9
76	Early Ultraviolet Observations of Type IIn Supernovae Constrain the Asphericity of Their Circumstellar Material. Astrophysical Journal, 2020, 899, 51.	4.5	9
77	Resolving the H i in damped Lyman Î± systems that power star formation. Nature, 2022, 606, 59-63.	27.8	9
78	Supernova siblings and their parent galaxies in the Zwicky Transient Facility Bright Transient Survey. Monthly Notices of the Royal Astronomical Society, 2022, 511, 241-254.	4.4	6
79	THE INFLUENCE OF GALAXY SURFACE BRIGHTNESS ON THE MASSâ€“METALLICITY RELATION. Astrophysical Journal, 2015, 810, 151.	4.5	5
80	A Hubble Space Telescope survey for novae in M87 â€“ III. Are novae good standard candles 15â€‰d after maximum brightness?. Monthly Notices of the Royal Astronomical Society, 2018, 474, 1746-1751.	4.4	5
81	HO Puppis: Not a Be Star, but a Newly Confirmed IW And-type Star. Astrophysical Journal, 2021, 911, 51.	4.5	3
82	Emission-line Data Cubes of the HH 32 Stellar Jet. Astronomical Journal, 2020, 160, 165.	4.7	2