Joshua S Speagle

List of Publications by Year
in descending order

38 papers	3,797 citations	279798 23 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	5656 citing authors

#	Article	IF	Citations
1	dynesty: a dynamic nested sampling package for estimating Bayesian posteriors and evidences. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3132-3158.	4.4	957
2	A 3D Dust Map Based on Gaia, Pan-STARRS 1, and 2MASS. Astrophysical Journal, 2019, 887, 93.	4.5	681
3	Stellar Population Inference with Prospector. Astrophysical Journal, Supplement Series, 2021, 254, 22.	7.7	259
4	How to Measure Galaxy Star Formation Histories. II. Nonparametric Models. Astrophysical Journal, 2019, 876, 3.	4.5	248
5	A Large Catalog of Accurate Distances to Local Molecular Clouds: The Gaia DR2 Edition. Astrophysical Journal, 2019, 879, 125.	4.5	183
6	The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	174
7	An Older, More Quiescent Universe from Panchromatic SED Fitting of the 3D-HST Survey. Astrophysical Journal, 2019, 877, 140.	4.5	156
8	A compendium of distances to molecular clouds in the Star Formation Handbook. Astronomy and Astrophysics, 2020, 633, A51.	5.1	141
9	A Galactic-scale gas wave in the solar neighbourhood. Nature, 2020, 578, 237-239.	27.8	86
10	An optically-selected cluster catalog at redshift 0.1<z<1.1 from the Hyper Suprime-Cam Subaru Strategic Program S16A data. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	85
11	Mapping Distances across the Perseus Molecular Cloud Using CO Observations, Stellar Photometry, and Gaia DR2 Parallax Measurements. Astrophysical Journal, 2018, 869, 83.	4.5	78
12	Star formation near the Sun is driven by expansion of the Local Bubble. Nature, 2022, 601, 334-337.	27.8	78
13	Reconstructing the Last Major Merger of the Milky Way with the H3 Survey. Astrophysical Journal, 2021, 923, 92.	4.5	76
14	A New Census of the 0.2<z<3.0 Universe. I. The Stellar Mass Function. Astrophysical Journal, 2020, 893, 111.	4.5	71
15	Fast, Slow, Early, Late: Quenching Massive Galaxies at z ∼ 0.8. Astrophysical Journal, 2022, 926, 134.	4.5	70
16	Orbital Clustering Identifies the Origins of Galactic Stellar Streams. Astrophysical Journal Letters, 2021, 909, L26.	8.3	51
17	Nested sampling for physical scientists. Nature Reviews Methods Primers, 2022, 2, .	21.2	40
18	Source selection for cluster weak lensing measurements in the Hyper Suprime-Cam survey. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	35

#	ARTICLE	IF	CITATIONS
19	High-resolution Spectroscopy of the GD-1 Stellar Stream Localizes the Perturber near the Orbital Plane of Sagittarius. Astrophysical Journal Letters, 2020, 892, L37.	8.3	34
20	On the Three-dimensional Structure of Local Molecular Clouds. Astrophysical Journal, 2021, 919, 35.	4.5	33
21	MINESweeper: Spectrophotometric Modeling of Stars in the Gaia Era. Astrophysical Journal, 2020, 900, 28.	4.5	32
22	Towards a radially resolved semi-analytic model for the evolution of disc galaxies tuned with machine learning. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3581-3606.	4.4	31
23	Weak lensing reveals a tight connection between dark matter halo mass and the distribution of stellar mass in massive galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3685-3707.	4.4	24
24	A Diffuse Metal-poor Component of the Sagittarius Stream Revealed by the H3 Survey. Astrophysical Journal, 2020, 900, 103.	4.5	21
25	Galaxy–Galaxy lensing in HSC: Validation tests and the impact of heterogeneous spectroscopic training sets. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5658-5677.	4.4	20
26	Deriving photometric redshifts using fuzzy archetypes and self-organizing maps – I. Methodology. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1186-1204.	4.4	19
27	Exploring photometric redshifts as an optimization problem: an ensemble MCMC and simulated annealing-driven template-fitting approach. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3432-3442.	4.4	16
28	Deriving photometric redshifts using fuzzy archetypes and self-organizing maps – II. Implementation. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1205-1224.	4.4	16
29	Measuring the Delay Time Distribution of Binary Neutron Stars. III. Using the Individual Star Formation Histories of Gravitational-wave Event Host Galaxies in the Local Universe. Astrophysical Journal Letters, 2019, 878, L14.	8.3	15
30	Constraining the distance to the North Polar Spur with Gaia DR2. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5863-5872.	4.4	14
31	Searching for globular cluster chemical anomalies on the main sequence of a young massive cluster. Monthly Notices of the Royal Astronomical Society, 2020, 495, 375-382.	4.4	11
32	Photometric Biases in Modern Surveys. Astronomical Journal, 2020, 159, 165.	4.7	10
33	Discovery of Magellanic Stellar Debris in the H3 Survey. Astrophysical Journal Letters, 2020, 905, L3.	8.3	10
34	Inferring the Morphology of Stellar Distribution in TNG50: Twisted and Twisted-stretched Shapes. Astrophysical Journal, 2021, 918, 7.	4.5	9
35	Measuring Star Formation Histories, Distances, and Metallicities with Pixel Color–Magnitude Diagrams. I. Model Definition and Mock Tests. Astrophysical Journal, 2019, 876, 78.	4.5	8
36	The outer stellar mass of massive galaxies: a simple tracer of halo mass with scatter comparable to richness and reduced projection effects. Monthly Notices of the Royal Astronomical Society, 2022, 515, 4722-4752.	4.4	5

#	ARTICLE	IF	CITATIONS
37	An older, more quiescent universe from panchromatic SED fitting of the 3D-HST survey. Proceedings of the International Astronomical Union, 2019, 15, 99-102.	0.0	0
38	Making the sum greater than its parts. Nature Astronomy, 2021, 5, 971-972.	10.1	0