

Joshua S Speagle

List of Publications by Year in descending order

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Version: 2024-02-01

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	Star formation near the Sun is driven by expansion of the Local Bubble. <i>Nature</i> , 2022, 601, 334-337.	27.8	78
2	Fast, Slow, Early, Late: Quenching Massive Galaxies at $z \approx 0.8$. <i>Astrophysical Journal</i> , 2022, 926, 134.	4.5	70
3	Nested sampling for physical scientists. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	21.2	40
4	The outer stellar mass of massive galaxies: a simple tracer of halo mass with scatter comparable to richness and reduced projection effects. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 4722-4752.	4.4	5
5	Orbital Clustering Identifies the Origins of Galactic Stellar Streams. <i>Astrophysical Journal Letters</i> , 2021, 909, L26.	8.3	51
6	Stellar Population Inference with Prospector. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 22.	7.7	259
7	Inferring the Morphology of Stellar Distribution in TNG50: Twisted and Twisted-stretched Shapes. <i>Astrophysical Journal</i> , 2021, 918, 7.	4.5	9
8	On the Three-dimensional Structure of Local Molecular Clouds. <i>Astrophysical Journal</i> , 2021, 919, 35.	4.5	33
9	Making the sum greater than its parts. <i>Nature Astronomy</i> , 2021, 5, 971-972.	10.1	0
10	Reconstructing the Last Major Merger of the Milky Way with the H3 Survey. <i>Astrophysical Journal</i> , 2021, 923, 92.	4.5	76
11	Searching for globular cluster chemical anomalies on the main sequence of a young massive cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 375-382.	4.4	11
12	Constraining the distance to the North Polar Spur with Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5863-5872.	4.4	14
13	Photometric Biases in Modern Surveys. <i>Astronomical Journal</i> , 2020, 159, 165.	4.7	10
14	dynesty: a dynamic nested sampling package for estimating Bayesian posteriors and evidences. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 3132-3158.	4.4	957
15	A Galactic-scale gas wave in the solar neighbourhood. <i>Nature</i> , 2020, 578, 237-239.	27.8	86
16	Weak lensing reveals a tight connection between dark matter halo mass and the distribution of stellar mass in massive galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3685-3707.	4.4	24
17	High-resolution Spectroscopy of the GD-1 Stellar Stream Localizes the Perturber near the Orbital Plane of Sagittarius. <i>Astrophysical Journal Letters</i> , 2020, 892, L37.	8.3	34
18	A compendium of distances to molecular clouds in the Star Formation Handbook. <i>Astronomy and Astrophysics</i> , 2020, 633, A51.	5.1	141

#	ARTICLE	IF	CITATIONS
19	A New Census of the 0.2 M_{\odot}–3.0 Universe. I. The Stellar Mass Function. <i>Astrophysical Journal</i> , 2020, 893, 111.	4.5	71
20	MINESweeper: Spectrophotometric Modeling of Stars in the Gaia Era. <i>Astrophysical Journal</i> , 2020, 900, 28.	4.5	32
21	A Diffuse Metal-poor Component of the Sagittarius Stream Revealed by the H3 Survey. <i>Astrophysical Journal</i> , 2020, 900, 103.	4.5	21
22	Discovery of Magellanic Stellar Debris in the H3 Survey. <i>Astrophysical Journal Letters</i> , 2020, 905, L3.	8.3	10
23	Measuring Star Formation Histories, Distances, and Metallicities with Pixel Color–Magnitude Diagrams. I. Model Definition and Mock Tests. <i>Astrophysical Journal</i> , 2019, 876, 78.	4.5	8
24	A Large Catalog of Accurate Distances to Local Molecular Clouds: The Gaia DR2 Edition. <i>Astrophysical Journal</i> , 2019, 879, 125.	4.5	183
25	Towards a radially resolved semi-analytic model for the evolution of disc galaxies tuned with machine learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 3581-3606.	4.4	31
26	An Older, More Quiescent Universe from Panchromatic SED Fitting of the 3D-HST Survey. <i>Astrophysical Journal</i> , 2019, 877, 140.	4.5	156
27	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. <i>Astrophysical Journal Letters</i> , 2019, 878, L14.	8.3	15
28	How to Measure Galaxy Star Formation Histories. II. Nonparametric Models. <i>Astrophysical Journal</i> , 2019, 876, 3.	4.5	248
29	An older, more quiescent universe from panchromatic SED fitting of the 3D-HST survey. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 99-102.	0.0	0
30	Galaxy–Galaxy lensing in HSC: Validation tests and the impact of heterogeneous spectroscopic training sets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5658-5677.	4.4	20
31	A 3D Dust Map Based on Gaia, Pan-STARRS 1, and 2MASS. <i>Astrophysical Journal</i> , 2019, 887, 93.	4.5	681
32	The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	174
33	Mapping Distances across the Perseus Molecular Cloud Using CO Observations, Stellar Photometry, and Gaia DR2 Parallax Measurements. <i>Astrophysical Journal</i> , 2018, 869, 83.	4.5	78
34	Source selection for cluster weak lensing measurements in the Hyper Suprime-Cam survey. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	35
35	An optically-selected cluster catalog at redshift 0.1 <math> < i> z < /i> < /math>–1.1 from the Hyper Suprime-Cam Subaru Strategic Program S16A data. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	85
36	Deriving photometric redshifts using fuzzy archetypes and self-organizing maps – I. Methodology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1186-1204.	4.4	19

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37	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
38	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