

David Rubin

List of Publications by Year in descending order

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304368

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#	ARTICLE	IF	CITATIONS
1	THE <i>HUBBLE SPACE TELESCOPE</i> CLUSTER SUPERNOVA SURVEY. V. IMPROVING THE DARK-ENERGY CONSTRAINTS ABOVE $z > 1$ AND BUILDING AN EARLY-TYPE-HOSTED SUPERNOVA SAMPLE. <i>Astrophysical Journal</i> , 2012, 746, 85.	1.6	1,382
2	Improved Cosmological Constraints from New, Old, and Combined Supernova Data Sets. <i>Astrophysical Journal</i> , 2008, 686, 749-778.	1.6	1,217
3	SPECTRA AND <i>HUBBLE SPACE TELESCOPE</i> LIGHT CURVES OF SIX TYPE Ia SUPERNOVAE AT $0.511 < z < 1.12$ AND THE UNION2 COMPILATION. <i>Astrophysical Journal</i> , 2010, 716, 712-738.	1.6	1,143
4	CONFIRMATION OF A STAR FORMATION BIAS IN TYPE Ia SUPERNOVA DISTANCES AND ITS EFFECT ON THE MEASUREMENT OF THE HUBBLE CONSTANT. <i>Astrophysical Journal</i> , 2015, 802, 20.	1.6	171
5	SCALING RELATIONS AND OVERABUNDANCE OF MASSIVE CLUSTERS AT $z < 1$ FROM WEAK-LENSING STUDIES WITH THE <i>HUBBLE SPACE TELESCOPE</i> . <i>Astrophysical Journal</i> , 2011, 737, 59.	1.6	104
6	Strong dependence of Type Ia supernova standardization on the local specific star formation rate. <i>Astronomy and Astrophysics</i> , 2020, 644, A176.	2.1	96
7	TYPE Ia SUPERNOVA CARBON FOOTPRINTS. <i>Astrophysical Journal</i> , 2011, 743, 27.	1.6	78
8	UNITY: CONFRONTING SUPERNOVA COSMOLOGY'S STATISTICAL AND SYSTEMATIC UNCERTAINTIES IN A UNIFIED BAYESIAN FRAMEWORK. <i>Astrophysical Journal</i> , 2015, 813, 137.	1.6	68
9	IS THE EXPANSION OF THE UNIVERSE ACCELERATING? ALL SIGNS POINT TO YES. <i>Astrophysical Journal Letters</i> , 2016, 833, L30.	3.0	62
10	AN INTENSIVE <i>HUBBLE SPACE TELESCOPE</i> SURVEY FOR $z > 1$ TYPE Ia SUPERNOVAE BY TARGETING GALAXY CLUSTERS. <i>Astronomical Journal</i> , 2009, 138, 1271-1283.	1.9	60
11	IMPROVING COSMOLOGICAL DISTANCE MEASUREMENTS USING TWIN TYPE IA SUPERNOVAE. <i>Astrophysical Journal</i> , 2015, 815, 58.	1.6	47
12	THE <i>HUBBLE SPACE TELESCOPE</i> CLUSTER SUPERNOVA SURVEY. III. CORRELATED PROPERTIES OF TYPE Ia SUPERNOVAE AND THEIR HOSTS AT $0.9 < z < 1.46$. <i>Astrophysical Journal</i> , 2012, 750, 1.	1.6	46
13	PRECISION MEASUREMENT OF THE MOST DISTANT SPECTROSCOPICALLY CONFIRMED SUPERNOVA Ia WITH THE <i>HUBBLE SPACE TELESCOPE</i> . <i>Astrophysical Journal</i> , 2013, 763, 35.	1.6	39
14	SN2019dgc: A Helium-rich Ultra-stripped Envelope Supernova. <i>Astrophysical Journal</i> , 2020, 900, 46.	1.6	38
15	THE <i>HUBBLE SPACE TELESCOPE</i> CLUSTER SUPERNOVA SURVEY. II. THE TYPE Ia SUPERNOVA RATE IN HIGH-REDSHIFT GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2012, 745, 32.	1.6	37
16	SNEMO: Improved Empirical Models for Type Ia Supernovae. <i>Astrophysical Journal</i> , 2018, 869, 167.	1.6	37
17	Lensed Type Ia supernovae as probes of cluster mass models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2742-2754.	1.6	33
18	THE <i>HUBBLE SPACE TELESCOPE</i> CLUSTER SUPERNOVA SURVEY. VI. THE VOLUMETRIC TYPE Ia SUPERNOVA RATE. <i>Astrophysical Journal</i> , 2012, 745, 31.	1.6	28

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19	Is the Expansion of the Universe Accelerating? All Signs Still Point to Yes: A Local Dipole Anisotropy Cannot Explain Dark Energy. <i>Astrophysical Journal</i> , 2020, 894, 68.	1.6	27
20	SUGAR: An improved empirical model of Type Ia supernovae based on spectral features. <i>Astronomy and Astrophysics</i> , 2020, 636, A46.	2.1	26
21	Evidence for Cosmic Acceleration Is Robust to Observed Correlations between Type Ia Supernova Luminosity and Stellar Age. <i>Astrophysical Journal Letters</i> , 2020, 896, L4.	3.0	26
22	Progenitor Mass Distribution for Core-collapse Supernova Remnants in M31 and M33. <i>Astrophysical Journal</i> , 2018, 861, 92.	1.6	22
23	The Hyper Suprime-Cam SSP transient survey in COSMOS: Overview. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	1.0	22
24	The Discovery of a Gravitationally Lensed Supernova Ia at Redshift 2.22. <i>Astrophysical Journal</i> , 2018, 866, 65.	1.6	21
25	SN 2012dn from early to late times: O9dc-like supernovae reassessed... <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	19
26	Discovery of an Intermediate-luminosity Red Transient in M51 and Its Likely Dust-obscured, Infrared-variable Progenitor. <i>Astrophysical Journal Letters</i> , 2019, 880, L20.	3.0	19
27	The Extinction Properties of and Distance to the Highly Reddened Type Ia Supernova 2012cu. <i>Astrophysical Journal</i> , 2017, 836, 157.	1.6	18
28	Host Galaxy Mass Combined with Local Stellar Age Improve Type Ia Supernovae Distances. <i>Astrophysical Journal</i> , 2021, 909, 28.	1.6	14
29	The Twins Embedding of Type Ia Supernovae. II. Improving Cosmological Distance Estimates. <i>Astrophysical Journal</i> , 2021, 912, 71.	1.6	12
30	Understanding type Ia supernovae through their U -band spectra. <i>Astronomy and Astrophysics</i> , 2018, 614, A71.	2.1	11
31	The Twins Embedding of Type Ia Supernovae. I. The Diversity of Spectra at Maximum Light. <i>Astrophysical Journal</i> , 2021, 912, 70.	1.6	11
32	Precise Mass Determination of SPT-CL J2106-5844, the Most Massive Cluster at $z \approx 1$. <i>Astrophysical Journal</i> , 2019, 887, 76.	1.6	9
33	TYPE Ia SUPERNOVA DISTANCE MODULUS BIAS AND DISPERSION FROM K -CORRECTION ERRORS: A DIRECT MEASUREMENT USING LIGHT CURVE FITS TO OBSERVED SPECTRAL TIME SERIES. <i>Astrophysical Journal</i> , 2015, 800, 57.	1.6	8
34	Correcting for peculiar velocities of Type Ia supernovae in clusters of galaxies. <i>Astronomy and Astrophysics</i> , 2018, 615, A162.	2.1	8
35	The HST See Change Program. I. Survey Design, Pipeline, and Supernova Discoveries*. <i>Astrophysical Journal</i> , 2021, 912, 87.	1.6	8
36	Initial Evaluation of SNEMO2 and SNEMO7 Standardization Derived from Current Light Curves of Type Ia Supernovae. <i>Astrophysical Journal</i> , 2020, 890, 60.	1.6	7

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37	CONSTRAINING DUST AND COLOR VARIATIONS OF HIGH- <i>z</i> SNe USING NICMOS ON THE HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2009, 700, 1415-1427.	1.6	6
38	SN Ia Standardization on the Rise: Evidence for the Cosmological Importance of Pre-maximum Measurements. <i>Astrophysical Journal</i> , 2019, 871, 219.	1.6	6
39	See Change: VLT spectroscopy of a sample of high-redshift Type Ia supernova host galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3859-3880.	1.6	6
40	Going Forward with the Nancy Grace Roman Space Telescope Transient Survey: Validation of Precision Forward-modeling Photometry for Undersampled Imaging. <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 064001.	1.0	6
41	A <i>Spitzer</i> survey for dust-obscured supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 4199-4209.	1.6	6
42	A CALIBRATION OF NICMOS CAMERA 2 FOR LOW COUNT RATES. <i>Astronomical Journal</i> , 2015, 149, 159.	1.9	5
43	Constraining the Dimensionality of SN Ia Spectral Variation with Twins. <i>Astrophysical Journal</i> , 2020, 897, 40.	1.6	5
44	The SNEMO and SUGAR Companion Data Sets. <i>Research Notes of the AAS</i> , 2020, 4, 63.	0.3	5
45	Does Gravity Fall Down? Evidence for Gravitational-wave Deflection along the Line of Sight to GW170817. <i>Astrophysical Journal Letters</i> , 2020, 890, L6.	3.0	3
46	The Roman Space Telescope Relative Calibration System and the Dark Energy Figure of Merit. <i>Research Notes of the AAS</i> , 2021, 5, 66.	0.3	1
47	Characterization of Unstable Pixels Using a Mixture Model: Application to HST WFC3 IR. <i>Research Notes of the AAS</i> , 2018, 2, 141.	0.3	1