Armin Rest

List of Publications by Year in descending order

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81 papers	11,623 citations	47 h-index	81 g-index
		47006	60623
82 all docs	82 docs citations	82 times ranked	6909 citing authors

#	Article	IF	Citations
1	Progenitor and close-in circumstellar medium of type II supernova 2020fqv from high-cadence photometry and ultra-rapid UV spectroscopy. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2777-2797.	4.4	17
2	Final Moments. I. Precursor Emission, Envelope Inflation, and Enhanced Mass Loss Preceding the Luminous Type II Supernova 2020tlf. Astrophysical Journal, 2022, 924, 15.	4.5	59
3	An Early-time Optical and Ultraviolet Excess in the Type-Ic SN 2020oi. Astrophysical Journal, 2022, 924, 55.	4.5	22
4	Locating the CSM Emission within the Type Ia Supernova Remnant N103B. Astrophysical Journal, 2022, 926, 207.	4.5	4
5	A Carbon/Oxygen-dominated Atmosphere Days after Explosion for the â€œSuper-Chandrasekharâ€•Type Ia SN 2020esm. Astrophysical Journal, 2022, 927, 78.	4.5	15
6	The Candidate Progenitor Companion Star of the Type Ib/c SN 2013ge. Astrophysical Journal Letters, 2022, 929, L15.	8.3	11
7	SOAR/Goodman Spectroscopic Assessment of Candidate Counterparts of the LIGO/Virgo Event GW190814*. Astrophysical Journal, 2022, 929, 115.	4.5	9
8	Target-of-opportunity Observations of Gravitational-wave Events with Vera C. Rubin Observatory. Astrophysical Journal, Supplement Series, 2022, 260, 18.	7.7	21
9	The Circumstellar Environments of Double-peaked, Calcium-strong Transients 2021gno and 2021inl. Astrophysical Journal, 2022, 932, 58.	4.5	15
10	Searching for a Hypervelocity White Dwarf SN Ia Companion: A Proper-motion Survey of SN 1006. Astrophysical Journal Letters, 2022, 933, L31.	8.3	7
11	Cosmological Results from the RAISIN Survey: Using Type Ia Supernovae in the Near Infrared as a Novel Path to Measure the Dark Energy Equation of State. Astrophysical Journal, 2022, 933, 172.	4.5	25
12	NEO Population, Velocity Bias, and Impact Risk from an ATLAS Analysis. Planetary Science Journal, 2021, 2, 12.	3.6	7
13	The Young Supernova Experiment: Survey Goals, Overview, and Operations. Astrophysical Journal, 2021, 908, 143.	4.5	52
14	A cool and inflated progenitor candidate for the Type Ib supernova 2019yvr at 2.6Âyr before explosion. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2073-2093.	4.4	48
15	Searches after Gravitational Waves Using ARizona Observatories (SAGUARO): Observations and Analysis from Advanced LIGO/Virgo's Third Observing Run. Astrophysical Journal, 2021, 912, 128.	4.5	24
16	AT 2019qyl in NGC 300: Internal Collisions in the Early Outflow from a Very Fast Nova in a Symbiotic Binary* â€. Astrophysical Journal, 2021, 920, 127.	4.5	4
17	The Gravity Collective: A Search for the Electromagnetic Counterpart to the Neutron Starâ€“Black Hole Merger GW190814. Astrophysical Journal, 2021, 923, 258.	4.5	19
18	The Foundation Supernova Survey: Photospheric Velocity Correlations in Type Ia Supernovae. Astrophysical Journal, 2021, 923, 267.	4.5	7

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19	SN 2018agk: A Prototypical Type Ia Supernova with a Smooth Power-law Rise in Kepler (K2). Astrophysical Journal, 2021, 923, 167.	4.5	10
20	K2: Background Survey â€“ the search for undiscovered transients in Kepler/K2 data. Monthly Notices of the Royal Astronomical Society, 2020, 498, 33-43.	4.4	3
21	Probing the extragalactic fast transient sky at minute time-scales with DECam. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5852-5866.	4.4	22
22	Observational constraints on the optical and near-infrared emission from the neutron starâ€“black hole binary merger candidate S190814bv. Astronomy and Astrophysics, 2020, 643, A113.	5.1	70
23	Design and Operation of the ATLAS Transient Science Server. Publications of the Astronomical Society of the Pacific, 2020, 132, 085002.	3.1	138
24	PS15cey and PS17cke: prospective candidates from the Pan-STARRS Search for kilonovae. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4213-4228.	4.4	13
25	SN 2019ehk: A Double-peaked Ca-rich Transient with Luminous X-Ray Emission and Shock-ionized Spectral Features. Astrophysical Journal, 2020, 898, 166.	4.5	48
26	A DESGW Search for the Electromagnetic Counterpart to the LIGO/Virgo Gravitational-wave Binary Neutron Star Merger Candidate S190510g. Astrophysical Journal, 2020, 903, 75.	4.5	8
27	Photometric Classification of 2315 Pan-STARRS1 Supernovae with Superphot. Astrophysical Journal, 2020, 905, 93.	4.5	15
28	SuperRAENN: A Semisupervised Supernova Photometric Classification Pipeline Trained on Pan-STARRS1 Medium-Deep Survey Supernovae. Astrophysical Journal, 2020, 905, 94.	4.5	43
29	Pan-STARRS Pixel Processing: Detrending, Warping, Stacking. Astrophysical Journal, Supplement Series, 2020, 251, 4.	7.7	77
30	Searches after Gravitational Waves Using ARizona Observatories (SAGUARO): System Overview and First Results from Advanced LIGO/Virgoâ€™s Third Observing Run. Astrophysical Journal Letters, 2019, 881, L26.	8.3	41
31	Discovery of a new WZÂSagittae-type cataclysmic variable in the Kepler/K2 data. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5551-5559.	4.4	7
32	SN2018kzr: A Rapidly Declining Transient from the Destruction of a White Dwarf. Astrophysical Journal Letters, 2019, 885, L23.	8.3	28
33	The Foundation Supernova Survey: Measuring Cosmological Parameters with Supernovae from a Single Telescope. Astrophysical Journal, 2019, 881, 19.	4.5	67
34	K2 Observations of SN 2018oh Reveal a Two-component Rising Light Curve for a Type Ia Supernova. Astrophysical Journal Letters, 2019, 870, L1.	8.3	80
35	A Search for Optical Emission from Binary Black Hole Merger GW170814 with the Dark Energy Camera. Astrophysical Journal Letters, 2019, 873, L24.	8.3	14
36	Supernova Photometric Classification Pipelines Trained on Spectroscopically Classified Supernovae from the Pan-STARRS1 Medium-deep Survey. Astrophysical Journal, 2019, 884, 83.	4.5	33

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37	Measuring Dark Energy Properties with Photometrically Classified Pan-STARRS Supernovae. II. Cosmological Parameters. Astrophysical Journal, 2018, 857, 51.	4.5	116
38	How Many Kilonovae Can Be Found in Past, Present, and Future Survey Data Sets?. Astrophysical Journal Letters, 2018, 852, L3.	8.3	60
39	An Empirical Study of Contamination in Deep, Rapid, and Wide-field Optical Follow-up of Gravitational Wave Events. Astrophysical Journal, 2018, 858, 18.	4.5	10
40	A fast-evolving luminous transient discovered by K2/Kepler. Nature Astronomy, 2018, 2, 307-311.	10.1	87
41	The Foundation Supernova Survey: motivation, design, implementation, and first data release. Monthly Notices of the Royal Astronomical Society, 2018, 475, 193-219.	4.4	88
42	The Cow: Discovery of a Luminous, Hot, and Rapidly Evolving Transient. Astrophysical Journal Letters, 2018, 865, L3.	8.3	146
43	The Expansion of the Young Supernova Remnant 0509-68.7 (N103B). Astrophysical Journal Letters, 2018, 865, L13.	8.3	16
44	Simulations of the WFIRST Supernova Survey and Forecasts of Cosmological Constraints. Astrophysical Journal, 2018, 867, 23.	4.5	112
45	Should Type Ia Supernova Distances Be Corrected for Their Local Environments?. Astrophysical Journal, 2018, 867, 108.	4.5	98
46	Testing the magnetar scenario for superluminous supernovae with circular polarimetry. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4984-4990.	4.4	15
47	ATLAS: A High-cadence All-sky Survey System. Publications of the Astronomical Society of the Pacific, 2018, 130, 064505.	3.1	569
48	Hydrogen-poor Superluminous Supernovae from the Pan-STARRS1 Medium Deep Survey. Astrophysical Journal, 2018, 852, 81.	4.5	88
49	Exceptionally fast ejecta seen in light echoes of Eta Carinaeâ€™s Great Eruption. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1457-1465.	4.4	21
50	The Complete Light-curve Sample of Spectroscopically Confirmed SNe Ia from Pan-STARRS1 and Cosmological Constraints from the Combined Pantheon Sample. Astrophysical Journal, 2018, 859, 101.	4.5	1,694
51	A kilonova as the electromagnetic counterpart to a gravitational-wave source. Nature, 2017, 551, 75-79.	27.8	601
52	Swope Supernova Survey 2017a (SSS17a), the optical counterpart to a gravitational wave source. Science, 2017, 358, 1556-1558.	12.6	811
53	Light curves of the neutron star merger GW170817/SSS17a: Implications for r-process nucleosynthesis. Science, 2017, 358, 1570-1574.	12.6	517
54	Electromagnetic evidence that SSS17a is the result of a binary neutron star merger. Science, 2017, 358, 1583-1587.	12.6	203

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55	Early spectra of the gravitational wave source GW170817: Evolution of a neutron star merger. Science, 2017, 358, 1574-1578.	12.6	240
56	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. II. UV, Optical, and Near-infrared Light Curves and Comparison to Kilonova Models. Astrophysical Journal Letters, 2017, 848, L17.	8.3	656
57	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. III. Optical and UV Spectra of a Blue Kilonova from Fast Polar Ejecta. Astrophysical Journal Letters, 2017, 848, L18.	8.3	327
58	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. IV. Detection of Near-infrared Signatures of r-process Nucleosynthesis with Gemini-South. Astrophysical Journal Letters, 2017, 848, L19.	8.3	390
59	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VIII. A Comparison to Cosmological Short-duration Gamma-Ray Bursts. Astrophysical Journal Letters, 2017, 848, L23.	8.3	103
60	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VII. Properties of the Host Galaxy and Constraints on the Merger Timescale. Astrophysical Journal Letters, 2017, 848, L22.	8.3	107
61	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. I. Discovery of the Optical Counterpart Using the Dark Energy Camera. Astrophysical Journal Letters, 2017, 848, L16.	8.3	392
62	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VI. Radio Constraints on a Relativistic Jet and Predictions for Late-time Emission from the Kilonova Ejecta. Astrophysical Journal Letters, 2017, 848, L21.	8.3	266
63	The Old Host-galaxy Environment of SSS17a, the First Electromagnetic Counterpart to a Gravitational-wave Source*. Astrophysical Journal Letters, 2017, 848, L30.	8.3	54
64	Measuring the Properties of Dark Energy with Photometrically Classified Pan-STARRS Supernovae. I. Systematic Uncertainty from Core-collapse Supernova Contamination. Astrophysical Journal, 2017, 843, 6.	4.5	47
65	A DARK ENERGY CAMERA SEARCH FOR AN OPTICAL COUNTERPART TO THE FIRST ADVANCED LIGO GRAVITATIONAL WAVE EVENT GW150914. Astrophysical Journal Letters, 2016, 823, L33.	8.3	55
66	CfAIR2: NEAR-INFRARED LIGHT CURVES OF 94 TYPE Ia SUPERNOVAE. Astrophysical Journal, Supplement Series, 2015, 220, 9.	7.7	58
67	Machine learning for transient discovery in Pan-STARRS1 difference imaging. Monthly Notices of the Royal Astronomical Society, 2015, 449, 451-466.	4.4	51
68	TOWARD CHARACTERIZATION OF THE TYPE IIP SUPERNOVA PROGENITOR POPULATION: A STATISTICAL SAMPLE OF LIGHT CURVES FROM Pan-STARRS1. Astrophysical Journal, 2015, 799, 208.	4.5	149
69	MULTI-COLOR OPTICAL AND NEAR-INFRARED LIGHT CURVES OF 64 STRIPPED-ENVELOPE CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, Supplement Series, 2014, 213, 19.	7.7	118
70	RAPIDLY EVOLVING AND LUMINOUS TRANSIENTS FROM PAN-STARRS1. Astrophysical Journal, 2014, 794, 23.	4.5	254
71	HYDROGEN-POOR SUPERLUMINOUS SUPERNOVAE AND LONG-DURATION GAMMA-RAY BURSTS HAVE SIMILAR HOST GALAXIES. Astrophysical Journal, 2014, 787, 138.	4.5	221
72	THE ULTRAVIOLET-BRIGHT, SLOWLY DECLINING TRANSIENT PS1-11af AS A PARTIAL TIDAL DISRUPTION EVENT. Astrophysical Journal, 2014, 780, 44.	4.5	166

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73	COSMOLOGICAL CONSTRAINTS FROM MEASUREMENTS OF TYPE Ia SUPERNOVAE DISCOVERED DURING THE FIRST 1.5 yr OF THE Pan-STARRS1 SURVEY. Astrophysical Journal, 2014, 795, 44.	4.5	262
74	PS1-10afx ATz= 1.388: PAN-STARRS1 DISCOVERY OF A NEW TYPE OF SUPERLUMINOUS SUPERNOVA. Astrophysical Journal, 2013, 767, 162.	4.5	56
75	PS1-12sk IS A PECULIAR SUPERNOVA FROM A He-RICH PROGENITOR SYSTEM IN A BRIGHTEST CLUSTER GALAXY ENVIRONMENT. Astrophysical Journal, 2013, 769, 39.	4.5	47
76	An ultravioletâ€“optical flare from the tidal disruption of a helium-rich stellar core. Nature, 2012, 485, 217-220.	27.8	373
77	DISPLAYING THE HETEROGENEITY OF THE SN 2002cx-LIKE SUBCLASS OF TYPE Ia SUPERNOVAE WITH OBSERVATIONS OF THE Pan-STARRS-1 DISCOVERED SN 2009ku. Astrophysical Journal Letters, 2011, 731, L11.	8.3	52
78	Pan-STARRS1 DISCOVERY OF TWO ULTRALUMINOUS SUPERNOVAE ATzâ‰ˆ 0.9. Astrophysical Journal, 2011, 743, 114.	4.5	168
79	CfA3: 185 TYPE Ia SUPERNOVA LIGHT CURVES FROM THE CfA. Astrophysical Journal, 2009, 700, 331-357.	4.5	388
80	Light echoes from ancient supernovae in the Large Magellanic Cloud. Nature, 2005, 438, 1132-1134.	27.8	128
81	Testing LMC Microlensing Scenarios: The Discrimination Power of the SuperMACHO Microlensing Survey. Astrophysical Journal, 2005, 634, 1103-1115.	4.5	160