Saul Perlmutter

List of Publications by Year
in descending order

203 papers	40,307 citations	14655 66 h-index	3261 185 g-index
206 all docs	206 docs citations	206 times ranked	12793 citing authors

#	Article	IF	Citations
1	Measurements of Î© and Î› from 42 Highâ€Redshift Supernovae. Astrophysical Journal, 1999, 517, 565-586.	4.5	14,066
2	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
3	Discovery of a supernova explosion at half the age of the Universe. Nature, 1998, 391, 51-54.	27.8	2,058
4	Improved cosmological constraints from a joint analysis of the SDSS-II and SNLS supernova samples. Astronomy and Astrophysics, 2014, 568, A22.	5.1	1,422
5	New Constraints on Î©M, Î©Î›, andwfrom an Independent Set of 11 Highâ€Redshift Supernovae Observed with theHubble Space Telescope. Astrophysical Journal, 2003, 598, 102-137.	4.5	1,406
6	THE<i>HUBBLE SPACE TELESCOPE</i>CLUSTER SUPERNOVA SURVEY. V. IMPROVING THE DARK-ENERGY CONSTRAINTS ABOVE<i>z</i>> 1 AND BUILDING AN EARLY-TYPE-HOSTED SUPERNOVA SAMPLE. Astrophysical Journal, 2012, 746, 85.	4.5	1,382
7	Measurements of the Cosmological Parameters Î© and Î› from the First Seven Supernovae atzâ‰¥ 0.35. Astrophysical Journal, 1997, 483, 565-581.	4.5	1,310
8	Improved Cosmological Constraints from New, Old, and Combined Supernova Data Sets. Astrophysical Journal, 2008, 686, 749-778.	4.5	1,217
9	SPECTRA AND<i>HUBBLE SPACE TELESCOPE</i>LIGHT CURVES OF SIX TYPE Ia SUPERNOVAE AT 0.511 <<i>z</i>< 1.12 AND THE UNION2 COMPILATION. Astrophysical Journal, 2010, 716, 712-738.	4.5	1,143
10	The Cosmic Triangle: Revealing the State of the Universe. Science, 1999, 284, 1481-1488.	12.6	976
11	SUPERNOVA CONSTRAINTS AND SYSTEMATIC UNCERTAINTIES FROM THE FIRST THREE YEARS OF THE SUPERNOVA LEGACY SURVEY. Astrophysical Journal, Supplement Series, 2011, 192, 1.	7.7	672
12	Possible gravitational microlensing of a star in the Large Magellanic Cloud. Nature, 1993, 365, 621-623.	27.8	657
13	Constraining Dark Energy with Type Ia Supernovae and Large-Scale Structure. Physical Review Letters, 1999, 83, 670-673.	7.8	471
14	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
15	The unusual afterglow of the Î³-ray burst of 26 March 1998 as evidence for a supernova connection. Nature, 1999, 401, 453-456.	27.8	412
16	The Supernova Legacy Survey 3-year sample: Type Ia supernovae photometric distances and cosmological constraints. Astronomy and Astrophysics, 2010, 523, A7.	5.1	412
17	SNLS3: CONSTRAINTS ON DARK ENERGY COMBINING THE SUPERNOVA LEGACY SURVEY THREE-YEAR DATA WITH OTHER PROBES. Astrophysical Journal, 2011, 737, 102.	4.5	370
18	NEARBY SUPERNOVA FACTORY OBSERVATIONS OF SN 2007if: FIRST TOTAL MASS MEASUREMENT OF A SUPER-CHANDRASEKHAR-MASS PROGENITOR. Astrophysical Journal, 2010, 713, 1073-1094.	4.5	292

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19	Timescale Stretch Parameterization of Type Ia SupernovaBâ€Band Light Curves. Astrophysical Journal, 2001, 558, 359-368.	4.5	280
20	Kâ€Corrections and Extinction Corrections for Type Ia Supernovae. Publications of the Astronomical Society of the Pacific, 2002, 114, 803-819.	3.1	263
21	Supernovae, Dark Energy, and the Accelerating Universe. Physics Today, 2003, 56, 53-60.	0.3	232
22	The dependence of Type Ia Supernovae luminosities on their host galaxies. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	229
23	Nearby Supernova Factory Observations of SN 2005gj: Another Type Ia Supernova in a Massive Circumstellar Envelope. Astrophysical Journal, 2006, 650, 510-527.	4.5	222
24	Overview of the Nearby Supernova Factory. , 2002, , .		203
25	Spectropolarimetry of SN 2001el in NGC 1448: Asphericity of a Normal Type Ia Supernova. Astrophysical Journal, 2003, 591, 1110-1128.	4.5	185
26	Spectrophotometric time series of SN 2011fe from the Nearby Supernova Factory. Astronomy and Astrophysics, 2013, 554, A27.	5.1	178
27	CONSTRAINING TYPE Ia SUPERNOVA MODELS: SN 2011fe AS A TEST CASE. Astrophysical Journal Letters, 2012, 750, L19.	8.3	175
28	The MACHO Project: 45 Candidate Microlensing Events from the First Year Galactic Bulge Data. Astrophysical Journal, 1997, 479, 119-146.	4.5	174
29	CONFIRMATION OF A STAR FORMATION BIAS IN TYPE Ia SUPERNOVA DISTANCES AND ITS EFFECT ON THE MEASUREMENT OF THE HUBBLE CONSTANT. Astrophysical Journal, 2015, 802, 20.	4.5	171
30	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
31	Feasibility of Measuring the Cosmological Constant Lambda and Mass Density Omega Using Type IA Supernovae. Astrophysical Journal, 1995, 450, 14.	4.5	158
32	Blind analysis: Hide results to seek the truth. Nature, 2015, 526, 187-189.	27.8	154
33	A Generalized K Correction for Type IA Supernovae: Comparing R-band Photometry beyond z=0.2 with B, V, and R-band Nearby Photometry. Publications of the Astronomical Society of the Pacific, 1996, 108, 190.	3.1	152
34	Evidence of environmental dependencies of Type Ia supernovae from the Nearby Supernova Factory indicated by local $H\alpha$. Astronomy and Astrophysics, 2013, 560, A66.	5.1	151
35	The MACHO Project First-Year Large Magellanic Cloud Results: The Microlensing Rate and the Nature of the Galactic Dark Halo. Astrophysical Journal, 1996, 461, 84.	4.5	142
36	THE EFFECT OF PROGENITOR AGE AND METALLICITY ON LUMINOSITY AND ^{56}Ni YIELD IN TYPE Ia SUPERNOVAE. Astrophysical Journal, 2009, 691, 661-671.	4.5	135

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37	Experimental Limits on the Dark Matter Halo of the Galaxy from Gravitational Microlensing. Physical Review Letters, 1995, 74, 2867-2871.	7.8	125
38	HOST GALAXY PROPERTIES AND HUBBLE RESIDUALS OF TYPE Ia SUPERNOVAE FROM THE NEARBY SUPERNOVA FACTORY. Astrophysical Journal, 2013, 770, 108.	4.5	123
39	The Hubble diagram of type Ia supernovae as a function of host galaxy morphology. Monthly Notices of the Royal Astronomical Society, 2003, 340, 1057-1075.	4.4	112
40	The reddening law of type Ia supernovae: separating intrinsic variability from dust using equivalent widths. Astronomy and Astrophysics, 2011, 529, L4.	5.1	110
41	DISCOVERY OF AN UNUSUAL OPTICAL TRANSIENT WITH THE<i>HUBBLE SPACE TELESCOPE</i>. Astrophysical Journal, 2009, 690, 1358-1362.	4.5	109
42	<i>HUBBLE SPACE TELESCOPE</i>WEAK-LENSING STUDY OF THE GALAXY CLUSTER XMMU J2235.3 â€" 2557 AT<i>z</i>â^¼ 1.4: A SURPRISINGLY MASSIVE GALAXY CLUSTER WHEN THE UNIVERSE IS ONE-THIRD OF ITS CURRENT AGE. Astrophysical Journal, 2009, 704, 672-686.	4.5	105
43	Type Ia supernova bolometric light curves and ejected mass estimates from the Nearby Supernova Factory. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1498-1518.	4.4	105
44	SCALING RELATIONS AND OVERABUNDANCE OF MASSIVE CLUSTERS AT<i>z</i>â‰³ 1 FROM WEAK-LENSING STUDIES WITH THE<i>HUBBLE SPACE TELESCOPE</i>. Astrophysical Journal, 2011, 737, 59.	4.5	104
45	Measuring Cosmology with Supernovae. Lecture Notes in Physics, 2003, , 195-217.	0.7	103
46	Submillisecond optical pulsar in supernova 1987A. Nature, 1989, 338, 234-236.	27.8	100
47	Multicolor Light Curves of Type Ia Supernovae on the Colorâ€Magnitude Diagram: A Novel Step toward More Precise Distance and Extinction Estimates. Astrophysical Journal, 2003, 590, 944-970.	4.5	99
48	Spectroscopic Observations and Analysis of the Peculiar SN 1999aa. Astronomical Journal, 2004, 128, 387-404.	4.7	99
49	A supernova at Z = 0.458 and implications for measuring the cosmological deceleration. Astrophysical Journal, 1995, 440, L41.	4.5	98
50	The Type Ia Supernova Rate atzâ‰ˆâ‰0.5 from the Supernova Legacy Survey. Astronomical Journal, 2006, 132, 1126-1145.	4.7	97
51	Strong dependence of Type Ia supernova standardization on the local specific star formation rate. Astronomy and Astrophysics, 2020, 644, A176.	5.1	96
52	The Distant Type Ia Supernova Rate. Astrophysical Journal, 2002, 577, 120-132.	4.5	94
53	The Rise Time of Type Ia Supernovae from the Supernova Legacy Survey. Astronomical Journal, 2006, 132, 1707-1713.	4.7	89
54	The Type Ia Supernova Rate at z â^¼ 0.4. Astrophysical Journal, 1996, 473, 356-364.	4.5	89

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55	Gravitational microlensing as a method of detecting disk dark matter and faint disk stars. Astrophysical Journal, 1991, 372, L79.	4.5	86
56	Using spectral flux ratios to standardize SNÂIa luminosities. Astronomy and Astrophysics, 2009, 500, L17-L20.	5.1	85
57	Atmospheric extinction properties above Mauna Kea from the Nearby SuperNova Factory spectro-photometric data set. Astronomy and Astrophysics, 2013, 549, A8.	5.1	85
58	Photometric Selection of High-Redshift Type Ia Supernova Candidates. Astronomical Journal, 2006, 131, 960-972.	4.7	84
59	Cluster galaxies in XMMU J2235-2557: galaxy population properties in most massive environments at<i>z</i>â€°Â~Ââ€°1.4. Astronomy and Astrophysics, 2010, 524, A17.	5.1	81
60	Measuring cosmic bulk flows with Type Ia supernovae from the Nearby Supernova Factory. Astronomy and Astrophysics, 2013, 560, A90.	5.1	80
61	THE<i>XMM</i>CLUSTER SURVEY: GALAXY MORPHOLOGIES AND THE COLOR-MAGNITUDE RELATION IN XMMXCS J2215.9 â€" 1738 AT<i>z</i>= 1.46. Astrophysical Journal, 2009, 697, 436-451.	4.5	78
62	TYPE Ia SUPERNOVA CARBON FOOTPRINTS. Astrophysical Journal, 2011, 743, 27.	4.5	78
63	The Type I[CLC]a[/CLC] Supernova 1999[CLC]aw[/CLC]: A Probable 1999[CLC]aa[/CLC]-like Event in a Low-Luminosity Host Galaxy. Astronomical Journal, 2002, 124, 2905-2919.	4.7	76
64	SNLS spectroscopy: testing for evolution in type Ia supernovae. Astronomy and Astrophysics, 2008, 477, 717-734.	5.1	76
65	Weak Lensing from Space. III. Cosmological Parameters. Astronomical Journal, 2004, 127, 3102-3114.	4.7	73
66	CONSTRAINING TYPE Ia SUPERNOVAE PROGENITORS FROM THREE YEARS OF SUPERNOVA LEGACY SURVEY DATA. Astrophysical Journal, 2011, 741, 20.	4.5	73
67	Probable gravitational microlensing toward the galactic bulge. Astrophysical Journal, 1995, 445, 133.	4.5	72
68	UNITY: CONFRONTING SUPERNOVA COSMOLOGYâ€™S STATISTICAL AND SYSTEMATIC UNCERTAINTIES IN A UNIFIED BAYESIAN FRAMEWORK. Astrophysical Journal, 2015, 813, 137.	4.5	68
69	A SEARCH FOR NEW CANDIDATE SUPER-CHANDRASEKHAR-MASS TYPE Ia SUPERNOVAE IN THE NEARBY SUPERNOVA FACTORY DATA SET. Astrophysical Journal, 2012, 757, 12.	4.5	64
70	HOST GALAXIES OF TYPE Ia SUPERNOVAE FROM THE NEARBY SUPERNOVA FACTORY. Astrophysical Journal, 2013, 770, 107.	4.5	63
71	Decadal variations in the global atmospheric land temperatures. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5280-5286.	3.3	63
72	ASSEMBLY OF THE RED SEQUENCE IN INFRARED-SELECTED GALAXY CLUSTERS FROM THE IRAC SHALLOW CLUSTER SURVEY. Astrophysical Journal, 2012, 756, 114.	4.5	61

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73	AN INTENSIVE *HUBBLE SPACE TELESCOPE* SURVEY FOR *z* >1 TYPE Ia SUPERNOVAE BY TARGETING GALAXY CLUSTERS. Astronomical Journal, 2009, 138, 1271-1283.	4.7	60
74	EVOLUTION IN THE VOLUMETRIC TYPE Ia SUPERNOVA RATE FROM THE SUPERNOVA LEGACY SURVEY. Astronomical Journal, 2012, 144, 59.	4.7	59
75	A New Determination of the High-Redshift Type Ia Supernova Rates with the *Hubble Space Telescope* Advanced Camera for Surveys. Astrophysical Journal, 2008, 673, 981-998.	4.5	58
76	Measurement of Î©m, Î©Î» from a Blind Analysis of Type Ia Supernovae with CMAGIC: Using Color Information to Verify the Acceleration of the Universe. Astrophysical Journal, 2006, 644, 1-20.	4.5	57
77	Carnegie Supernova Project-II: Extending the Near-infrared Hubble Diagram for Type Ia Supernovae to *z* â¼ 0.1. Publications of the Astronomical Society of the Pacific, 2019, 131, 014001.	3.1	56
78	Carnegie Supernova Project-II: The Near-infrared Spectroscopy Program. Publications of the Astronomical Society of the Pacific, 2019, 131, 014002.	3.1	55
79	Observation of Anomalously Short Mean Free Paths of Projectile Fragments of1.85A-GeVAr40in CR-39 Etched Track Detector. Physical Review Letters, 1983, 51, 1948-1951.	7.8	54
80	The blue anbd visual absolute magnitude distributions of Type IA supernovae. Astrophysical Journal, 1995, 439, 558.	4.5	54
81	Nobel Lecture: Measuring the acceleration of the cosmic expansion using supernovae. Reviews of Modern Physics, 2012, 84, 1127-1149.	45.6	52
82	Photometric and spectroscopic observations of SN 1990E in NGC 1035 - Observational constraints for models of type II supernovae. Astronomical Journal, 1993, 105, 2236.	4.7	51
83	Overview of the SuperNova/Acceleration Probe (SNAP). , 2002, , .		50
84	The Massive and Distant Clusters of *WISE* Survey. I. Survey Overview and a Catalog of >2000 Galaxy Clusters at *z* â‰³ 1. Astrophysical Journal, Supplement Series, 2019, 240, 33.	7.7	50
85	The Nearby Supernova Factory. New Astronomy Reviews, 2004, 48, 637-640.	12.8	49
86	Spectra of High-Redshift Type Ia Supernovae and a Comparison with Their Low-Redshift Counterparts. Astronomical Journal, 2005, 130, 2788-2803.	4.7	49
87	Nearby Supernova Factory Observations of SN 2006D: On Sporadic Carbon Signatures in Early Type Ia Supernova Spectra. Astrophysical Journal, 2007, 654, L53-L56.	4.5	49
88	EVIDENCE FOR TYPE Ia SUPERNOVA DIVERSITY FROM ULTRAVIOLET OBSERVATIONS WITH THE *HUBBLE SPACE TELESCOPE*. Astrophysical Journal, 2012, 749, 126.	4.5	49
89	Quantitative comparison between type Ia supernova spectra at low and high redshifts: a case study. Astronomy and Astrophysics, 2007, 470, 411-424.	5.1	49
90	Nonlinear Decline-Rate Dependence and Intrinsic Variation of Type Ia Supernova Luminosities. Astrophysical Journal, 2006, 641, 50-69.	4.5	48

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91	IMPROVING COSMOLOGICAL DISTANCE MEASUREMENTS USING TWIN TYPE IA SUPERNOVAE. Astrophysical Journal, 2015, 815, 58.	4.5	47
92	LOOKING BEYOND LAMBDA WITH THE UNION SUPERNOVA COMPILATION. Astrophysical Journal, 2009, 695, 391-403.	4.5	46
93	THE <i>HUBBLE SPACE TELESCOPE</i> CLUSTER SUPERNOVA SURVEY. III. CORRELATED PROPERTIES OF TYPE Ia SUPERNOVAE AND THEIR HOSTS AT 0.9 <<i>z</i>< 1.46. Astrophysical Journal, 2012, 750, 1.	4.5	46
94	Restframe I-band Hubble diagram for type Ia supernovae up to redshift $z \mathsf{\sim}$ 0.5. Astronomy and Astrophysics, 2005, 437, 789-804.	5.1	46
95	Weak Lensing from Space. II. Dark Matter Mapping. Astronomical Journal, 2004, 127, 3089-3101.	4.7	45
96	High rate for Type IC supernovae. Astrophysical Journal, 1992, 384, L9.	4.5	45
97	Snapshot Distances to Type Ia Supernovae: All in â€œOneâ€•Night's Work. Astrophysical Journal, 1998, 504, 935-944.	4.5	45
98	Photometric selection of Type Ia supernovae in the Supernova Legacy Survey. Astronomy and Astrophysics, 2011, 534, A43.	5.1	44
99	AN EXTREME STARBURST IN THE CORE OF A RICH GALAXY CLUSTER AT <i>z</i> = 1.7. Astrophysical Journal, 2015, 809, 173.	4.5	43
100	Supernova Legacy Survey: using spectral signatures to improve Type Ia supernovae as distance indicators. Monthly Notices of the Royal Astronomical Society, 2011, 410, 1262-1282.	4.4	42
101	STANDARDIZING TYPE Ia SUPERNOVA ABSOLUTE MAGNITUDES USING GAUSSIAN PROCESS DATA REGRESSION. Astrophysical Journal, 2013, 766, 84.	4.5	40
102	Spectroscopic Observations and Analysis of the Unusual Type Ia SN 1999ac. Astronomical Journal, 2005, 130, 2278-2292.	4.7	39
103	PRECISION MEASUREMENT OF THE MOST DISTANT SPECTROSCOPICALLY CONFIRMED SUPERNOVA Ia WITH THE <i>HUBBLE SPACE TELESCOPE</i>. Astrophysical Journal, 2013, 763, 35.	4.5	39
104	Search for Nonintegrally Charged Projectile Fragments in Relativistic Nucleus-Nucleus Collisions. Physical Review Letters, 1983, 50, 566-569.	7.8	38
105	The growth of brightest cluster galaxies and intracluster light over the past 10 billion years. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3751-3759.	4.4	38
106	THE <i>HUBBLE SPACE TELESCOPE</i> CLUSTER SUPERNOVA SURVEY. II. THE TYPE Ia SUPERNOVA RATE IN HIGH-REDSHIFT GALAXY CLUSTERS. Astrophysical Journal, 2012, 745, 32.	4.5	37
107	SNEMO: Improved Empirical Models for Type Ia Supernovae. Astrophysical Journal, 2018, 869, 167.	4.5	37
108	Spectroscopic confirmation of high-redshift supernovae with the ESO VLT. Astronomy and Astrophysics, 2005, 430, 843-851.	5.1	35

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109	Scientific computing meets big data technology: An astronomy use case. , 2015, , .		35
110	Lensed Type Ia supernovae as probes of cluster mass models. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2742-2754.	4.4	33
111	Multiwavelength observations of a rich galaxy cluster at z $hicksim$ 1. Astronomy and Astrophysics, 2009, 501, 49-60.	5.1	33
112	<title>Quantum efficiency of a back-illuminated CCD imager: an optical approach</title>. , 1999, 3649, 80.		31
113	Theory of Exploring the Dark Halo with Microlensing. I. Power-Law Models. Astrophysical Journal, 1995, 449, 28.	4.5	31
114	TYPE Ia SUPERNOVAE RATES AND GALAXY CLUSTERING FROM THE CFHT SUPERNOVA LEGACY SURVEY. Astronomical Journal, 2008, 135, 1343-1349.	4.7	29
115	Implications for the Hubble Constant from the First Seven Supernovae at [CLC][ITAL]z[/ITAL][/CLC] â‰¥ 0.35. Astrophysical Journal, 1997, 476, L63-L66.	4.5	28
116	A Definitive Measurement of Time Dilation in the Spectral Evolution of the Moderate-Redshift Type Ia Supernova 1997ex. Astrophysical Journal, 2005, 626, L11-L14.	4.5	28
117	KECK OBSERVATIONS OF THE YOUNG METAL-POOR HOST GALAXY OF THE SUPER-CHANDRASEKHAR-MASS TYPE Ia SUPERNOVA SN 2007if. Astrophysical Journal, 2011, 733, 3.	4.5	28
118	THE <i>HUBBLE SPACE TELESCOPE</i> CLUSTER SUPERNOVA SURVEY. VI. THE VOLUMETRIC TYPE Ia SUPERNOVA RATE. Astrophysical Journal, 2012, 745, 31.	4.5	28
119	THE MASSIVE AND DISTANT CLUSTERS OF <i>WISE</i> SURVEY: MOO J1142+1527, A 10 ¹⁵ <i>M</i> _{â˜™} GALAXY CLUSTER AT <i>z</i> = 1.19. Astrophysical Journal Letters, 2015, 812, L40.	8.3	28
120	Application of cubic splines to the spectral analysis of unequally spaced data. Astrophysical Journal, 1994, 436, 787.	4.5	28
121	Back-illuminated, fully-depleted CCD image sensors for use in optical and near-IR astronomy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 442, 216-222.	1.6	26
122	SUGAR: An improved empirical model of Type Ia supernovae based on spectral features. Astronomy and Astrophysics, 2020, 636, A46.	5.1	26
123	<title>32-megapixel dual-color CCD imaging system</title>. , 1993, 1900, 192.		25
124	Observation of Cosmological Time Dilation Using Type Ia Supernovae as Clocks. , 1997, , 777-784.		24
125	Carnegie Supernova Project II: The Slowest Rising Type Ia Supernova LSQ14fmg and Clues to the Origin of Super-Chandrasekhar/03fg-like Events*. Astrophysical Journal, 2020, 900, 140.	4.5	24
126	Weak lensing from space I: instrumentation and survey strategy. Astroparticle Physics, 2004, 20, 377-389.	4.3	23

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127	Redshift evolution of the underlying type Ia supernova stretch distribution. Astronomy and Astrophysics, 2021, 649, A74.	5.1	23
128	GRB 050408: A Bright Gammaâ€Ray Burst Probing an Atypical Galactic Environment. Astrophysical Journal, 2006, 645, 450-463.	4.5	22
129	The Nearby Supernova Factory. New Astronomy Reviews, 2006, 50, 436-438.	12.8	22
130	Galaxy Merger Candidates in High-redshift Cluster Environments. Astrophysical Journal, 2017, 843, 126.	4.5	22
131	A study of 42 type Ia supernovae and a resulting measurement of Î©M and Î©Î›1This work was supported in part by the United States Department of Energy, contract numbers DE-AC03-76SF00098, CfPA, and NSF contract number AST-9120005.1. Physics Reports, 1998, 307, 325-331.	25.6	21
132	SUPERNOVAE, DARK ENERGY, AND THE ACCELERATING UNIVERSE: THE STATUS OF THE COSMOLOGICAL PARAMETERS. International Journal of Modern Physics A, 2000, 15, 715-739.	1.5	21
133	The Discovery of a Gravitationally Lensed Supernova Ia at Redshift 2.22. Astrophysical Journal, 2018, 866, 65.	4.5	21
134	Kira: Processing Astronomy Imagery Using Big Data Technology. IEEE Transactions on Big Data, 2020, 6, 369-381.	6.1	21
135	The Subaru/<i>XMMâ€Newton</i>Deep Survey (SXDS). V. Optically Faint Variable Object Survey. Astrophysical Journal, 2008, 676, 163-183.	4.5	21
136	The Acceleration of the Universe: Measurements of Cosmological Parameters from Type Ia Supernovae. Physica Scripta, 2000, T85, 47.	2.5	20
137	<i>HUBBLE SPACE TELESCOPE</i> DISCOVERY OF A <i>z</i> = 3.9 MULTIPLY IMAGED GALAXY BEHIND THE COMPLEX CLUSTER LENS WARPS J1415.1+36 AT <i>z</i> = 1.026. Astrophysical Journal, 2009, 707, L12-L16.	4.5	20
138	The Morphologyâ€"Density Relationship in 1<Âz<Â2 Clusters. Astrophysical Journal, 2020, 899, 85.	4.5	20
139	SNÂ2012dn from early to late times: 09dc-like supernovae reassessedâ˜…. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	19
140	The Extinction Properties of and Distance to the Highly Reddened Type IA Supernova 2012cu. Astrophysical Journal, 2017, 836, 157.	4.5	18
141	Subaru FOCAS Spectroscopic Observations of High-Redshift Supernovae. Publication of the Astronomical Society of Japan, 2010, 62, 19-37.	2.5	16
142	A metric space for Type Ia supernova spectra. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1247-1266.	4.4	16
143	First Weak-lensing Results from â€œSee Changeâ€ Quantifying Dark Matter in the Two zâ‰³Â1.5 High-redshift Galaxy Clusters SPT-CL J2040â€"4451 and IDCS J1426+3508. Astrophysical Journal, 2017, 847, 117.	4.5	16
144	Scheduled Discoveries of 7+ High-Redshift Supernovae:First Cosmology Results and Bounds on q 0. , 1997, , 749-763.		16

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145	Accuracy of environmental tracers and consequences for determining the Type Ia supernova magnitude step. Astronomy and Astrophysics, 2022, 657, A22.	5.1	16
146	Snapping supernovae at z>1.7. Astroparticle Physics, 2007, 27, 213-225.	4.3	15
147	SNAP Telescope. , 2002, , .		14
148	TYPE Ia SUPERNOVA HUBBLE RESIDUALS AND HOST-GALAXY PROPERTIES. Astrophysical Journal, 2014, 784, 51.	4.5	13
149	Observations of the type II supernova 1986I in M99. Astronomical Journal, 1989, 97, 186.	4.7	13
150	Characterization of a fully depleted CCD on high-resistivity silicon. , 1997, 3019, 183.		12
151	Rest-FrameR-band Light Curve of az~ 1.3 Supernova Obtained with Keck Laser Adaptive Optics. Astronomical Journal, 2007, 133, 2709-2715.	4.7	12
152	The Twins Embedding of Type Ia Supernovae. II. Improving Cosmological Distance Estimates. Astrophysical Journal, 2021, 912, 71.	4.5	12
153	Constraining the Mass of the Emerging Galaxy Cluster SpARCS1049+56 at zÂ=Â1.71 with Infrared Weak Lensing. Astrophysical Journal, 2020, 893, 10.	4.5	12
154	The TypeÂIa supernovae rate with Subaru/XMM-Newton Deep Survey. Publication of the Astronomical Society of Japan, 2014, 66, .	2.5	11
155	Distance probes of dark energy. Astroparticle Physics, 2015, 63, 2-22.	4.3	11
156	Understanding type Ia supernovae through their <i>U</i>-band spectra. Astronomy and Astrophysics, 2018, 614, A71.	5.1	11
157	The Twins Embedding of Type Ia Supernovae. I. The Diversity of Spectra at Maximum Light. Astrophysical Journal, 2021, 912, 70.	4.5	11
158	The First Data from the MACHO Experiment. Annals of the New York Academy of Sciences, 1993, 688, 612-618.	3.8	10
159	Precise Mass Determination of SPT-CL J2106-5844, the Most Massive Cluster at zÂ>Â1. Astrophysical Journal, 2019, 887, 76.	4.5	9
160	The Hâ‰‰Î± star formation main sequence in cluster and field galaxies at <i>z</i> â^¼ 1.6. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3061-3070.	4.4	9
161	Evidence for comet storms in meteorite ages. Icarus, 1988, 74, 369-373.	2.5	8
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