# 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 | Accuracy of environmental tracers and consequences for determining the Type Ia supernova magnitude step. Astronomy and Astrophysics, 2022, 657, A22. | 5.1 | 16 |
| 2 | An Assessment of the In Situ Growth of the Intracluster Light in the High-redshift Galaxy Cluster SpARCS1049+56. Astrophysical Journal, 2022, 930, 25. | 4.5 | 4 |
| 3 | The HST See Change Program. I. Survey Design, Pipeline, and Supernova Discoveries*. Astrophysical Journal, 2021, 912, 87. | 4.5 | 8 |
| 4 | Redshift evolution of the underlying type Ia supernova stretch distribution. Astronomy and Astrophysics, 2021, 649, A74. | 5.1 | 23 |
| 5 | The Twins Embedding of Type Ia Supernovae. II. Improving Cosmological Distance Estimates. Astrophysical Journal, 2021, 912, 71. | 4.5 | 12 |
| 6 | The Twins Embedding of Type Ia Supernovae. I. The Diversity of Spectra at Maximum Light. Astrophysical Journal, 2021, 912, 70. | 4.5 | 11 |
| 7 | Going Forward with the Nancy Grace Roman Space Telescope Transient Survey: Validation of Precision Forward-modeling Photometry for Undersampled Imaging. Publications of the Astronomical Society of the Pacific, 2021, 133, 064001. | 3.1 | 6 |
| 8 | Kira: Processing Astronomy Imagery Using Big Data Technology. IEEE Transactions on Big Data, 2020, 6, 369-381. | 6.1 | 21 |
| 9 | 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 |
| 10 | The H$\alpha$ star formation main sequence in cluster and field galaxies at $z$ $\approx$ 1.6. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3061-3070. | 4.4 | 9 |
| 11 | See Change: VLT spectroscopy of a sample of high-redshift Type Ia supernova host galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3859-3880. | 4.4 | 6 |
| 12 | SUGAR: An improved empirical model of Type Ia supernovae based on spectral features. Astronomy and Astrophysics, 2020, 636, A46. | 5.1 | 26 |
| 13 | Strong dependence of Type Ia supernova standardization on the local specific star formation rate. Astronomy and Astrophysics, 2020, 644, A176. | 5.1 | 96 |
| 14 | Initial Evaluation of SNEMO2 and SNEMO7 Standardization Derived from Current Light Curves of Type Ia Supernovae. Astrophysical Journal, 2020, 890, 60. | 4.5 | 7 |
| 15 | Constraining the Mass of the Emerging Galaxy Cluster SpARCS1049+56 at $z = 1.71$ with Infrared Weak Lensing. Astrophysical Journal, 2020, 893, 10. | 4.5 | 12 |
| 16 | The Morphology–Density Relationship in $1 < z < 2$ Clusters. Astrophysical Journal, 2020, 899, 85. | 4.5 | 20 |
| 17 | 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 |
| 18 | The SNEMO and SUGAR Companion Data Sets. Research Notes of the AAS, 2020, 4, 63. | 0.7 | 5 |

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| 19 | The Massive and Distant Clusters of *WISE* Survey. I. Survey Overview and a Catalog of &gt;2000 Galaxy Clusters at *z* ≳ 1. Astrophysical Journal, Supplement Series, 2019, 240, 33. | 7.7 | 50 |
| 20 | Precise Mass Determination of SPT-CL J2106-5844, the Most Massive Cluster at zÂ&gt;Â1. Astrophysical Journal, 2019, 887, 76. | 4.5 | 9 |
| 21 | Carnegie Supernova Project-II: Extending the Near-infrared Hubble Diagram for Type Ia Supernovae to *z* ∼ 0.1. Publications of the Astronomical Society of the Pacific, 2019, 131, 014001. | 3.1 | 56 |
| 22 | Carnegie Supernova Project-II: The Near-infrared Spectroscopy Program. Publications of the Astronomical Society of the Pacific, 2019, 131, 014002. | 3.1 | 55 |
| 23 | SNEMO: Improved Empirical Models for Type Ia Supernovae. Astrophysical Journal, 2018, 869, 167. | 4.5 | 37 |
| 24 | Correcting for peculiar velocities of Type Ia supernovae in clusters of galaxies. Astronomy and Astrophysics, 2018, 615, A162. | 5.1 | 8 |
| 25 | Understanding type Ia supernovae through their *U*-band spectra. Astronomy and Astrophysics, 2018, 614, A71. | 5.1 | 11 |
| 26 | Evidence of environmental dependencies of Type Ia supernovae from the Nearby Supernova Factory indicated by local H*α (Corrigendum)*. Astronomy and Astrophysics, 2018, 612, C1. | 5.1 | 3 |
| 27 | The Discovery of a Gravitationally Lensed Supernova Ia at Redshift 2.22. Astrophysical Journal, 2018, 866, 65. | 4.5 | 21 |
| 28 | A Binary Offset Effect in CCD Readout and Its Impact on Astronomical Data. Publications of the Astronomical Society of the Pacific, 2018, 130, 064504. | 3.1 | 7 |
| 29 | The Extinction Properties of and Distance to the Highly Reddened Type IA Supernova 2012cu. Astrophysical Journal, 2017, 836, 157. | 4.5 | 18 |
| 30 | First Weak-lensing Results from "See Change" Quantifying Dark Matter in the Two zÂ≳Â1.5 High-redshift Galaxy Clusters SPT-CL J2040—4451 and IDCS J1426+3508. Astrophysical Journal, 2017, 847, 117. | 4.5 | 16 |
| 31 | ISOPHOTE SHAPES OF EARLY-TYPE GALAXIES IN MASSIVE CLUSTERS AT zÂ∼Â1 AND 0. Astrophysical Journal, 2017, 834, 109. | 4.5 | 7 |
| 32 | Galaxy Merger Candidates in High-redshift Cluster Environments. Astrophysical Journal, 2017, 843, 126. | 4.5 | 22 |
| 33 | SCALA: In situ calibration for integral field spectrographs. Astronomy and Astrophysics, 2017, 607, A113. | 5.1 | 6 |
| 34 | UNITY: CONFRONTING SUPERNOVA COSMOLOGY'S STATISTICAL AND SYSTEMATIC UNCERTAINTIES IN A UNIFIED BAYESIAN FRAMEWORK. Astrophysical Journal, 2015, 813, 137. | 4.5 | 68 |
| 35 | THE MASSIVE AND DISTANT CLUSTERS OF *WISE* SURVEY: MOO J1142+1527, A 10$^{15}$ *M*$_☉$ GALAXY CLUSTER AT *z* = 1.19. Astrophysical Journal Letters, 2015, 812, L40. | 8.3 | 28 |
| 36 | IMPROVING COSMOLOGICAL DISTANCE MEASUREMENTS USING TWIN TYPE IA SUPERNOVAE. Astrophysical Journal, 2015, 815, 58. | 4.5 | 47 |

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| 37 | AN EXTREME STARBURST IN THE CORE OF A RICH GALAXY CLUSTER AT $z$ = 1.7. Astrophysical Journal, 2015, 809, 173. | 4.5 | 43 |
| 38 | Measuring cosmic bulk flows with Type Ia supernovae from the Nearby Supernova Factory *(Corrigendum)*. Astronomy and Astrophysics, 2015, 578, C1. | 5.1 | 2 |
| 39 | Blind analysis: Hide results to seek the truth. Nature, 2015, 526, 187-189. | 27.8 | 154 |
| 40 | Scientific computing meets big data technology: An astronomy use case. , 2015, , . | | 35 |
| 41 | TYPE Ia SUPERNOVA DISTANCE MODULUS BIAS AND DISPERSION FROM $K$-CORRECTION ERRORS: A DIRECT MEASUREMENT USING LIGHT CURVE FITS TO OBSERVED SPECTRAL TIME SERIES. Astrophysical Journal, 2015, 800, 57. | 4.5 | 8 |
| 42 | 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 |
| 43 | A CALIBRATION OF NICMOS CAMERA 2 FOR LOW COUNT RATES. Astronomical Journal, 2015, 149, 159. | 4.7 | 5 |
| 44 | A metric space for Type Ia supernova spectra. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1247-1266. | 4.4 | 16 |
| 45 | Distance probes of dark energy. Astroparticle Physics, 2015, 63, 2-22. | 4.3 | 11 |
| 46 | 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 |
| 47 | Lensed Type Ia supernovae as probes of cluster mass models. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2742-2754. | 4.4 | 33 |
| 48 | The TypeÂIa supernovae rate with Subaru/XMM-Newton Deep Survey. Publication of the Astronomical Society of Japan, 2014, 66, . | 2.5 | 11 |
| 49 | TYPE Ia SUPERNOVA HUBBLE RESIDUALS AND HOST-GALAXY PROPERTIES. Astrophysical Journal, 2014, 784, 51. | 4.5 | 13 |
| 50 | 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 |
| 51 | HOST GALAXIES OF TYPE Ia SUPERNOVAE FROM THE NEARBY SUPERNOVA FACTORY. Astrophysical Journal, 2013, 770, 107. | 4.5 | 63 |
| 52 | Decadal variations in the global atmospheric land temperatures. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5280-5286. | 3.3 | 63 |
| 53 | Spectrophotometric time series of SN 2011fe from the Nearby Supernova Factory. Astronomy and Astrophysics, 2013, 554, A27. | 5.1 | 178 |
| 54 | HOST GALAXY PROPERTIES AND HUBBLE RESIDUALS OF TYPE Ia SUPERNOVAE FROM THE NEARBY SUPERNOVA FACTORY. Astrophysical Journal, 2013, 770, 108. | 4.5 | 123 |

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| 57 | Measuring cosmic bulk flows with Type Ia supernovae from the Nearby Supernova Factory. Astronomy and Astrophysics, 2013, 560, A90. | 5.1 | 80 |
| 58 | Atmospheric extinction properties above Mauna Kea from the Nearby SuperNova Factory spectro-photometric data set. Astronomy and Astrophysics, 2013, 549, A8. | 5.1 | 85 |
| 59 | PRECISION MEASUREMENT OF THE MOST DISTANT SPECTROSCOPICALLY CONFIRMED SUPERNOVA Ia WITH THE *HUBBLE SPACE TELESCOPE*. Astrophysical Journal, 2013, 763, 35. | 4.5 | 39 |
| 60 | 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 |
| 61 | ASSEMBLY OF THE RED SEQUENCE IN INFRARED-SELECTED GALAXY CLUSTERS FROM THE IRAC SHALLOW CLUSTER SURVEY. Astrophysical Journal, 2012, 756, 114. | 4.5 | 61 |
| 62 | EVIDENCE FOR TYPE Ia SUPERNOVA DIVERSITY FROM ULTRAVIOLET OBSERVATIONS WITH THE *HUBBLE SPACE TELESCOPE*. Astrophysical Journal, 2012, 749, 126. | 4.5 | 49 |
| 63 | THE *HUBBLE SPACE TELESCOPE* CLUSTER SUPERNOVA SURVEY. VI. THE VOLUMETRIC TYPE Ia SUPERNOVA RATE. Astrophysical Journal, 2012, 745, 31. | 4.5 | 28 |
| 64 | THE *HUBBLE SPACE TELESCOPE* CLUSTER SUPERNOVA SURVEY. II. THE TYPE Ia SUPERNOVA RATE IN HIGH-REDSHIFT GALAXY CLUSTERS. Astrophysical Journal, 2012, 745, 32. | 4.5 | 37 |
| 65 | THE *HUBBLE SPACE TELESCOPE* CLUSTER SUPERNOVA SURVEY. III. CORRELATED PROPERTIES OF TYPE Ia SUPERNOVAE AND THEIR HOSTS AT 0.9 &lt; *z* &lt; 1.46. Astrophysical Journal, 2012, 750, 1. | 4.5 | 46 |
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| 67 | THE *HUBBLE SPACE TELESCOPE* CLUSTER SUPERNOVA SURVEY. V. IMPROVING THE DARK-ENERGY CONSTRAINTS ABOVE *z* &gt; 1 AND BUILDING AN EARLY-TYPE-HOSTED SUPERNOVA SAMPLE. Astrophysical Journal, 2012, 746, 85. | 4.5 | 1,382 |
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| 69 | Nobel Lecture: Measuring the acceleration of the cosmic expansion using supernovae. Reviews of Modern Physics, 2012, 84, 1127-1149. | 45.6 | 52 |
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| 71 | 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 |
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| 76 | TYPE Ia SUPERNOVA CARBON FOOTPRINTS. Astrophysical Journal, 2011, 743, 27. | 4.5 | 78 |
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| 78 | Cosmology with the Nearby Supernova Factory. Progress in Particle and Nuclear Physics, 2011, 66, 335-339. | 14.4 | 1 |
| 79 | 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 |
| 80 | The Supernova Legacy Survey 3-year sample: Type Ia supernovae photometric distances and cosmological constraints. Astronomy and Astrophysics, 2010, 523, A7. | 5.1 | 412 |
| 81 | 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 |
| 82 | The dependence of Type Ia Supernovae luminosities on their host galaxies. Monthly Notices of the Royal Astronomical Society, 2010, , no-no. | 4.4 | 229 |
| 83 | Cluster galaxies in XMMU J2235-2557: galaxy population properties in most massive environments at $z \approx 1.4$. Astronomy and Astrophysics, 2010, 524, A17. | 5.1 | 81 |
| 84 | THE TYPE Ia SUPERNOVA RATE IN RADIO AND INFRARED GALAXIES FROM THE CANADA-FRANCE-HAWAII TELESCOPE SUPERNOVA LEGACY SURVEY. Astronomical Journal, 2010, 139, 594-605. | 4.7 | 5 |
| 85 | Subaru FOCAS Spectroscopic Observations of High-Redshift Supernovae. Publication of the Astronomical Society of Japan, 2010, 62, 19-37. | 2.5 | 16 |
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| 88 | DISCOVERY OF AN UNUSUAL OPTICAL TRANSIENT WITH THE *HUBBLE SPACE TELESCOPE*. Astrophysical Journal, 2009, 690, 1358-1362. | 4.5 | 109 |
| 89 | THE *XMM* CLUSTER SURVEY: GALAXY MORPHOLOGIES AND THE COLOR-MAGNITUDE RELATION IN XMMXCS J2215.9 − 1738 AT *z* = 1.46. Astrophysical Journal, 2009, 697, 436-451. | 4.5 | 78 |
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| 92 | Using spectral flux ratios to standardize SNÂIa luminosities. Astronomy and Astrophysics, 2009, 500, L17-L20. | 5.1 | 85 |
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| 97 | A rate study of Type Ia supernovae with Subaru/XMM-Newton Deep Survey. Proceedings of the International Astronomical Union, 2009, 5, 358-361. | 0.0 | 0 |
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| 105 | The Subaru/*XMMâ€Newton* Deep Survey (SXDS). V. Optically Faint Variable Object Survey. Astrophysical Journal, 2008, 676, 163-183. | 4.5 | 21 |
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| 111 | 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 |
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| 120 | 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 |
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