Publications for Dr. Peter L. Capak

Publication Summary

369 Publications
319 Refereed Publications Accepted or Submitted
50 Un-refereed Publications
Top 1% of Cited Researchers in 2017-2019
>30,000 Citations
>1,600 Citations on first author papers
99 papers with >100 citations, 6 as first author.
H Index = 99

First Author publications

1) Capak et al., 2015, "Galaxies at redshifts 5 to 6 with systematically low dust content and high [C II] emission", Nature, 522, 455
2) Capak et al., 2013, "Keck-I MOSFIRE Spectroscopy of the z ~ 12 Candidate Galaxy UDFj-39546284", ApJL, 733, 14
3) Capak et al., 2011, "A massive protocluster of galaxies at a redshift of z~5.3" , Nature, 470, 233
4) Capak et al., 2010, "Spectroscopy and Imaging of three bright z>7 candidates in the COSMOS survey", ApJ, 730, 68
5) Capak et al., 2008, "Spectroscopic Confirmation Of An Extreme Starburst At Redshift 4.547", ApJL, 681, 53
6) Capak et. al., 2007, "The effects of environment on morphological evolution between 0<z<1.2 in the COSMOS Survey", ApJS, 172, 284
7) Capak et. al., 2007, "The First Release COSMOS Optical and Near-IR Data and Catalog", ApJS, 172, 99
8) Capak, 2004, "Probing global star and galaxy formation using deep multi-wavelength surveys", Ph.D. Thesis
9) Capak et. al., 2004, "A Deep Wide-Field, Optical, and Near-Infrared Catalog of a Large Area around the Hubble Deep Field North", AJ, 127, 180

Other Publications (P. Capak was a leading author in bolded entries)

10) Faisst et al., 2020, "The ALPINE-ALMA [CII] survey: Multi-Wavelength Ancillary Data. Basic Physical Measurements", ApJS accepted, astro-ph, 1912.01621
11) Steinhardt et al., 2020, "The BUFFALO HST Survey", ApJS Accepted, astro-ph, 2001.09999
12) Mawatari et al., 2020, "Balmer Break galaxy Candidates at z~6: A Potential View on the Star Formation Activity at z>14", ApJ, 889, 137
13) Romano et al., 2020, "The ALPINE-ALMA [CII] survey: On the nature of an extremely obscured serendipitous galaxy", A&A Submitted, astro-ph, 2002.00961
14) Bethermin et al., 2020, "The ALPINE-ALMA [CII] survey: data processing, catalogs, and statistical source properties", A&A Submitted, astro-ph, 2002.00962
15) Cassata et al., 2020, "The ALPINE-ALMA [CII] survey: Small Ly-α-[CII] velocity offsets in main sequence galaxies at 4.4<z<6", A&A Submitted, astro-ph, 2002.00967

16) Schaerer et al., 2020, "The ALPINE-ALMA [CII] survey. No or weak evolution in the [CII]-SFR relation over the last 13 Gyr", A&A Submitted, astro-ph, 2002.00979
17) Hemmati et al., 2020, "Bridging between the integrated and resolved main sequence of star formation", ApJL accepted, astro-ph,2002.01011
18) Fujimoto et al. 2020, "The ALPINE-ALMA [CII] Survey: Size of Individual Star-Forming Galaxies at z=4-6 and their Extended Halo Structure", ApJ Submitted, astro-ph, 2003.000013
19) Darvish et al. 2020, "Spectroscopic Confirmation of a Coma Cluster Progenitor at z~2.2", ApJ, 892, 8
20) Le Fevre et al., 2019, "The ALPINE-ALMA [CII] survey: Survey strategy, observations and sample properties of 118 star-forming galaxies at 4<z<6", A&A Submitted, astro-ph, 1910.09517
21) Pahl et al., 2020, "The Redshift Evolution of Rest-UV Spectroscopic Properties to z~5", MNRAS, 493, 3194
22) Ginolfi et al., 2019, "The ALPINE-ALMA [C II] Survey: Star formation-driven outflows and circumgalactic enrichment in the early Universe", A&A submitted, astro-ph, 1910.04770
23) **Faisst et al., 2019, "The Recent Burstiness of Star Formation in Galaxies at z~4.5 from H-α Measurements", ApJ accepted, astro-ph, 1909.03076**
24) **Faisst et al., 2019, "How to Find Variable Active Galactic Nuclei with Machine Learning", ApJL, 881, 9**
25) Jones et al., 2020, "The APLINE-ALMA [CII] Survey: A Triple Merger at z~4.56", MNRAS, 491, 18
26) Speagle et al., 2019, "Galaxy-Galaxy Lensing in HSC: Validation Tests and the Impact of Heterogeneous Spectroscopic Training Sets", MNRAS, 490, 5658
27) **Davidzon et al. 2019, "Horizon-AGN virtual observatory - 2: Template-free estimates of galaxy properties from colours", MNRAS, 489, 4817**
28) **Hemmati et al. 2019, "Bringing manifold learning and dimensionality reduction to SED fitters", ApJL, 881, 14**
29) **Masters et al. 2019, "The Complete Calibration of the Color-Redshift Relation (C3R2) Survey: Analysis and Data Release 2", ApJ, 877, 81**
30) Laigle et al. 2019, "Horizon-AGN virtual observatory - 1. SED-fitting performance and forecasts for future imaging surveys", MNRAS, 486, 5104
31) Kusakabe et al. 2019, "The dominant origin of diffuse Lyα halos around Lyα emitters explored by spectral energy distribution fitting and clustering analysis", PASJ, 60
32) Leauthaud et al. 2019, "Deep+Wide Lensing Surveys will Provide Exquisite Measurements of the Dark Matter Halos of Dwarf Galaxies", ApJ submitted, astro-ph, 1905.01433
33) Magnelli et a;. 2019, "The IRAM/GISMO two-millimeter survey in the COSMOS field", ApJ accepted, astro-ph, 1904.100006
34) Kitching et al. 2019, "Rainbow Cosmic Shear: Optimization of Tomographic Bins", MNRAS, submitted, astro-ph, 1901.06495
35) Pavesi et al. 2018, "Low star formation efficiency in typical galaxies at z=5-6", ApJ submitted, astro-ph, 1812.00006
36) Legrand et al. 2019, "The COSMOS-UltraVISTA stellar-to-halo mass relationship: new insights on galaxy formation efficiency out to z~5", MNRAS, 486, 5468

37) Hemmati et al. 2018. "Photometric redshift calibration requirements for WFIRST Weak Lensing Cosmology: Predictions from CANDELS", ApJ accepted, astro-ph, 1808,10458
38) Riechers et al. 2019, "COLDz: Shape of the CO Luminosity Function at High Redshift and the Cold Gas History of the Universe", ApJ, 872, 7
39) Korngut et al. 2018, "SPHEREx: an all-sky NIR spectral survey", SPIE, 10698, 1
40) Gozaliasl et al. 2018, "Chandra centres for COSMOS X-ray galaxy groups: Differences in stellar properties between central dominant and offset brightest group galaxies", MNRAS, 483, 3545
41) Gozaliasl et al. 2019, "Chandra centres for COSMOS X-ray galaxy groups: Differences in stellar properties between central dominant and offset brightest group galaxies.", MNRAS, 483.3545
42) Jin et al. 2018, "Super-deblended" Dust Emission in Galaxies. II. Far-IR to (Sub)millimeter Photometry and High-redshift Galaxy Candidates in the Full COSMOS Field", ApJ, 864, 56
43) Pavesi et al. 2018, "The CO Luminosity Density at High-z (COLDz) Survey: A Sensitive, Large-area Blind Search for Low-J CO Emission from Cold Gas in the Early Universe with the Karl G. Jansky Very Large Array", ApJ, 864, 49
44) Pavesi et al. 2018, "Hidden in Plain Sight: A Massive, Dusty Starburst in a Galaxy Protocluster at z = 5.7 in the COSMOS Field", ApJ, 861, 43
45) Jimenez-Andrade et al. 2018, "Molecular gas in AzTEC/C159: a star-forming disk galaxy 1.3 Gyr after the Big Bang", A&A, 615, 25
46) Harikane et al. 2018, "SILVERRUSH. V. Census of Lyα, [O III] λ5007, Hα, and [C II] 158 μm Line Emission with ˜1000 LAEs at z = 4.9-7.0 Revealed with Subaru/HSC", APJ, 859, 84
47) Hassinger et al. 2018, "The DEIMOS 10K Spectroscopic Survey Catalog of the COSMOS Field", ApJ, 858, 77
48) Mehta et al. 2017, "SPLASH-SXDF Multi-wavelength Photometric Catalog", ApJS, 235, 36
49) Faisst et al. 2018, "Empirical Modeling of the Redshift Evolution of the NII/Hα Ratio for Galaxy Redshift Surveys", ApJ, 856, 121
50) Aihara et al. 2018, "The Hyper Suprime-Cam SSP Survey: Overview and survey design", PASJ, 70, 4
51) Kusakabe et al. 2018, "The stellar mass, star formation rate and dark matter halo properties of LAEs at z ˜ 2", PASJ, 70, 4
52) Davidzon et al. 2018, "An Alternate Approach to Measure Specific Star Formation Rates at 2<z<7", ApJ, 842, 107
53) Rhodes et al. 2017, "Scientific Synergy between LSST and Euclid", ApJS, 233, 21
54) Jones et al. 2017, "Dynamical Characterization of Galaxies at z ˜ 4-6 via Tilted Ring Fitting to ALMA [C II] Observations", ApJ, 850, 180
55) Brisbin et al. 2017, "An ALMA survey of submillimeter galaxies in the COSMOS field: Multiwavelength counterparts and redshift distribution", A&A, 608, 15
56) Faisst et al. 2017, "Are High-redshift Galaxies Hot? Temperature of z > 5 Galaxies and Implications for Their Dust Properties", ApJ, 847, 21

57) Miettinen et al. 2017, "An ALMA survey of submillimetre galaxies in the COSMOS field: Physical properties derived from energy balance spectral energy distribution modelling", A&A, 606, 17
58) Davidzon et al. 2017, "The COSMOS2015 galaxy stellar mass function . Thirteen billion years of stellar mass assembly in ten snapshots", A&A, 605, 70
59) Barisic et al. 2017, "Dust Properties of C II Detected z ˜ 5.5 Galaxies: New HST/WFC3 Near-IR Observations", ApJ, 845, 41
60) Steinhardt et al. 2017, "Reconciling mass functions with the star-forming main sequence via mergers", MNRAS, 468, 849
61) Masters et al. 2017, "The Complete Calibration of the Color-Redshift Relation (C3R2) Survey: Survey Overview and Data Release 1", ApJ, 841, 111
62) Suh et al. 2017, "Type 2 AGN Host Galaxies in the Chandra-COSMOS Legacy Survey: No Evidence of AGN-driven Quenching", ApJ, 841, 102
63) Miettinen et al. 2017, "An ALMA survey of submillimetre galaxies in the COSMOS field: The extent of the radio-emitting region revealed by 3 GHz imaging with the Very Large Array", A&A, 602, 54
64) Novak et al. 2017, "The VLA-COSMOS 3 GHz Large Project: Cosmic star formation history since z 5", A&A, 602, 5
65) Delhaize et al. 2017, "The VLA-COSMOS 3 GHz Large Project: The infrared-radio correlation of star-forming galaxies and AGN to $z \lesssim 6$". A&A, 602, 4
66) Delvecchio et al. 2017, "The VLA-COSMOS 3 GHz Large Project: AGN and host-galaxy properties out to $z \lesssim 6$", A&A, 602, 3
67) Smolcic et al. 2017, "The VLA-COSMOS 3 GHz Large Project: Continuum data and source catalog release", A&A, 602, 1
68) Casey et al. 2017, "Near-infrared MOSFIRE Spectra of Dusty Star-forming Galaxies at $0.2 < z < 4$", ApJ, 840, 101
69) Faisst et al. 2017, "Constraints on Quenching of $Z \lesssim 2$ Massive Galaxies from the Evolution of the Average Sizes of Star-forming and Quenched Populations in COSMOS", ApJ, 839, 71
70) Tasca et al. 2017, "The VIMOS Ultra Deep Survey first data release: Spectra and spectroscopic redshifts of 698 objects up to z_{spec} 6 in CANDELS", A&A, 600, 110
71) Chang et al. 2017, "Obscured active galactic nuclei triggered in compact star-forming galaxies", MNRAS, 466, 103
72) Scoville et al. 2017, "Evolution of Interstellar Medium, Star Formation, and Accretion at High Redshift", ApJ, 837, 150
73) Lotz et al. 2016, "The Frontier Fields: Survey Design", ApJ, 837, 97
74) Hemmati et al. 2017, "The Local [C II] 158 μm Emission Line Luminosity Function", ApJ, 834, 36
75) Thomas et al. 2017, "VIMOS Ultra-Deep Survey (VUDS): IGM transmission towards galaxies with $2.5 < z < 5.5$ and the colour selection of high-redshift galaxies", A&A, 597, 88
76) Miettinen et al. 2017, "(Sub)millimetre interferometric imaging of a sample of COSMOS/AzTEC submillimetre galaxies IV. Physical properties derived from spectral energy distributions", A&A, 597, 5
77) Smolcic et al. 20167 "(Sub)millimetre interferometric imaging of a sample of COSMOS/AzTEC submillimetre galaxies III. Environments", A&A, 597, 4

78) **Pavesi et al. 2016, "ALMA Reveals Weak [N II] Emission in "Typical" Galaxies and Intense Starbursts at z = 5-6", ApJ, 832, 151**
79) **Speagle et al. 2016, " Exploring photometric redshifts as an optimization problem: an ensemble MCMC and simulated annealing-driven template-fitting approach", MNRAS, 416, 3432**
80) **Masters et al. 2016, "A Tight Relation between N/O Ratio and Galaxy Stellar Mass Can Explain the Evolution of Strong Emission Line Ratios with Redshift", ApJ, 828, 18**
81) Lain et al. 2016, "Metallicity and Age of the Stellar Stream around the Disk Galaxy NGC 5907", ApJ, 152, 72
82) Hung et al. 2016, "Large-scale Structure around a z=2.1 Cluster", ApJ, 826, 130
83) Song et al. 2016, "Keck/MOSFIRE Spectroscopy of z = 7-8 Galaxies: Lyα Emission from a Galaxy at z = 7.66", ApJ, 826, 113
84) Ingalls et al. 2016, "Repeatability and Accuracy of Exoplanet Eclipse Depths Measured with Post-cryogenic Spitzer", AJ, 152, 44
85) Cassara et al. 2016, "Effect of the star formation histories on the SFR-M* relation at z ≥ 2", A&A, 593, 9
86) Darvish et al. 2016, "The Effects of the Local Environment and Stellar Mass on Galaxy Quenching to z ˜ 3", ApJ, 825, 113
87) **Laigle et al. 2016, "The COSMOS2015 Catalog: Exploring the 1 < z < 6 Universe with Half a Million Galaxies", ApJS, 224, 24**
88) **Steinhardt et al. 2016, "The Impossibly Early Galaxy Problem", ApJ, 824, 21**
89) Onodera et al., 2016, "ISM Excitation and Metallicity of Star-forming Galaxies at z ≃ 3.3 from Near-IR Spectroscopy", ApJ, 822, 42
90) **Faisst et al. 2016, "Rest-UV Absorption Lines as Metallicity Estimator: The Metal Content of Star-forming Galaxies at z ~ 5", ApJ, 822, 29**
91) Castellano et al. 2016, "The ASTRODEEP Frontier Fields catalogues. II. Photometric redshifts and rest frame properties in Abell-2744 and MACS-J0416", A&A, 590, 31
92) **Merlin et al. 2016, "The ASTRODEEP Frontier Fields catalogues. I. Multiwavelength photometry of Abell-2744 and MACS-J0416", A&A, 590, 30**
93) **Faisst et al. 2016, "A Coherent Study of Emission Lines from Broadband Photometry: Specific Star Formation Rates and [O iii]/Hβ Ratio at 3 > z > 6", ApJ, 821, 122**
94) Scoville et al. 2016, "ISM Masses and the Star formation Law at Z = 1 to 6: ALMA Observations of Dust Continuum in 145 Galaxies in the COSMOS Survey Field", ApJ, 820, 83
95) Hathi et al. 2016, "The VIMOS Ultra Deep Survey: Lyα emission and stellar populations of star-forming galaxies at 2 < z < 2.5", A&A, 588, 26
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97) Civano et al. 2016, "The Chandra Cosmos Legacy Survey: Overview and Point Source Catalog", ApJ, 819, 62
98) Kobayahi et al. 2016, "Morphological Properties of Lyα Emitters at Redshift 4.86 in the Cosmos Field: Clumpy Star Formation or Merger?", ApJ, 819, 25

99) Lin et al., 2015, "The SPLASH survey: Quiescent galaxies are more strongly clustered but are not necessarily located in high-density environments", ApJ, 817, 97

100) Grazin et al. 2016, "The Lyman continuum escape fraction of galaxies at z = 3.3 in the VUDS-LBC/COSMOS field", A&A, 585, 48

101) Masters et al., 2015, "Mapping the Galaxy Color–Redshift Relation: Optimal Photometric Redshift Calibration Strategies for Cosmology Surveys", ApJ, 813, 53

102) Duralec et al., 2015, "Evolution of clustering length, large-scale bias, and host halo mass at 2 < z < 5 in the VIMOS Ultra Deep Survey (VUDS)", A&A, 583, 128

103) Taniguchi et al., 2015, "The Subaru COSMOS 20: Subaru Optical Imaging of the HST COSMOS Field with 20 Filters", PASP accepted, astroph/1510.00550

104) Riguccini et al., 2015, "The composite nature of Dust-Obscured Galaxies (DOGs) at z ˜ 2-3 in the COSMOS field - I. A far-infrared view", MNRAS, 452, 470

105) Silverman et al., 2015, "The FMOS-COSMOS Survey of Star-forming Galaxies at z~1.6. III. Survey Design, Performance, and Sample Characteristics", ApJS, 220, 12

106) Caputi et al., 2015, "Spitzer Bright, UltraVISTA Faint Sources in COSMOS: The Contribution to the Overall Population of Massive Galaxies at z = 3-7", ApJ, 810, 73

107) Tasca et al., 2015, "The evolving star formation rate: M* relation and sSFR since z~5 from the VUDS spectroscopic survey", A&A, 581, 54

108) Taniguchi et al., 2015, "Discovery of Massive, Mostly Star Formation Quenched Galaxies with Extremely Large Lyα Equivalent Widths at z ˜ 3", ApJ, 809, 7

109) Ikeda et al, 2015, "The Quasar-LBG Two-point Angular Cross-correlation Function at z~4 in the COSMOS Field", ApJ, 809, 138

110) Casey et al., 2015, "A Massive, Distant Proto-cluster at z = 2.47 Caught in a Phase of Rapid Formation?", ApJ, 809, 33

111) Kartaltepe et al., 2015, "Rest-frame Optical Emission Lines in Far-infrared-selected Galaxies at z < 1.7 from the FMOS-COSMOS Survey", ApJ, 806, 35

112) Miettinen et al., 2015, "(Sub)millimetre interferometric imaging of a sample of COSMOS/AzTEC submillimetre galaxies. I. Multiwavelength identifications and redshift distribution", A&A, 577, 29

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115) Casata et al., 2015, "The VIMOS Ultra-Deep Survey (VUDS): fast increase in the fraction of strong Lyman-α emitters from z = 2 to z = 6", A&A, 573, 24

116) Spergel et al., 2015, "Wide-Field InfrarRed Survey Telescope-Astrophysics Focused Telescope Assets WFIRST-AFTA 2015 Report", astroph/1503.03757

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120) Hanish et al., 2015, "The Spitzer Archival Far-Infrared Extragalactic Survey", ApJ, 217, 17

121) Carniani et al., 2015, “ALMA constraints on the faint millimetre source number counts and their contribution to the cosmic infrared background”, astroph/1502.00640

122) Lentaiti et al., 2016, “COLDz: Karl G. Jansky Very Large Array discovery of a gas-rich galaxy in COSMOS”, ApJ, 800, 67

123) Thomas et al., 2014, “The VIMOS Ultra-Deep Survey (VUDS): IGM transmission towards galaxies with 2.5<z<5.5 and the colour selection of high redshift galaxies”, astroph/1411.5692

124) Durkalec et al., 2014, “The evolution of clustering length, large-scale bias and host halo mass at 2<z<5 in the VIMOS Ultra Deep Survey (VUDS)”, A&A, 576, 7

125) Diener et al., 2014, “A proto-cluster at z=2.45”, ApJ, 802, 31

126) Leauthaud et al., 2015, “The dark matter haloes of moderate luminosity X-ray AGN as determined from weak gravitational lensing and host stellar masses”, MNRAS, 446, 1874

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128) Casey et al. 2014, “Are Dusty Galaxies Blue? Insights on UV Attenuation from Dust-Selected Galaxies”, ApJ, 796, 95

129) Lowrance et al., 2014, “Enhancement of the Spitzer Infrared Array Camera (IRAC) distortion correction for parallax measurements”, SPIE, 9143, 58

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131) Lackner et al., 2014, “Late-stage galaxy mergers in COSMOS to z~1”, AJ, 148, 137

132) Speagle et al., 2014, “A Highly Consistent Framework for the Evolution of the Star-Forming "Main Sequence" from z~0-6”, ApJS, 214, 15

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139) Steinhardt et al., 2014, “Star Formation at 4 < z < 6 from the Spitzer Large Area Survey with Hyper-Suprime-Cam (SPLASH)”, ApJ, 791, 25

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