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
6) Capak et. al., 2007, "The effects of environment on morphological evolution between 0<z<1.2 in the COSMOS Survey", ApJS, 172, 284

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

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
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
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
60) Steinhardt et al. 2017, “Reconciling mass functions with the star-forming main sequence via mergers”, MNRAS, 468, 849
77) Smolcic et al. 20167 “(Sub)millimetre interferometric imaging of a sample of COSMOS/AzTEC submillimetre galaxies III. Environments”, A&A, 597, 4
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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
102) Duraletic 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/1510.0550
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
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
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
114) Lee et al., 2015, “A Turnover in the Galaxy Main Sequence of Star Formation at M* sim 10^{10} M_☉ for Redshifts z < 1.3”, ApJ, 801, 80
121) Carniani et al., 2015, “ALMA constraints on the faint millimetre source number counts and their contribution to the cosmic infrared background”, astro-ph/1502.00640
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”, astro-ph/1411.5692
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
127) Ilbert et al., 2015, “Evolution of the specific Star Formation Rate Function at z<1.4 - Dissecting the mass-SFR plane in COSMOS and GOODS”, A&A, 579, 2
129) Lowrance et al., 2014, “Enhancement of the Spitzer Infrared Array Camera (IRAC) distortion correction for parallax measurements”, SPIE, 9143, 58
131) Lackner et al., 2014, “Late-stage galaxy mergers in COSMOS to z~1”, AJ, 148, 137
140) Amorin et al., 2014, “Discovering extremely compact and metal-poor, star-forming dwarf galaxies out to z ~ 0.9 in the VIMOS Ultra-Deep Survey”, A&A, 568, 8
142) Murata et al., 2014, “Evolution of the Fraction of Clumpy Galaxies at 0.2 < z < 1.0 in the COSMOS Field”, ApJ, 786, 15
146) Lowrance et al. 2014, “Enhancement of the Spitzer Infrared Array Camera (IRAC) distortion correction for parallax measurements”, SPIE, 9143, 58
150) Kashino et al., 2013, “The FMOS-COSMOS Survey of Star-forming Galaxies at z ~ 1.6. I. Hα-based Star Formation Rates and Dust Extinction”
161) Symeonidis et al. 2013, "The Herschel census of infrared SEDs through cosmic time", MNRAS, 431, 2317
162) Scoville et al. 2013, "Evolution of Galaxies and Their Environments at z = 0.1-3 in COSMOS", ApJS, 206, 3
169) Aravena et al. 2012, "Deep observations of CO line emission from star-forming galaxies in a cluster candidate at z=1.5", MNRAS, 426, 258
183) Yun et al. 2012, "Deep 1.1 mm-wavelength imaging of the GOODS-S field by AzTEC/ASTE - II. Redshift distribution and nature of the submillimetre galaxy population", MNRAS, 420, 957
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185) Popesso et al. 2012, "The evolution of the star formation activity per halo mass up to redshift $\sim 1.6$ as seen by Herschel", A&A, 537, A58


191) Coppa et al. 2011, "The bimodality of the 10k zCOSMOS-bright galaxies up to $z \sim 1$: a new statistical and portable classification based on optical galaxy properties", A&A, 535, A10

192) Dominguez-Sanchez et al. 2011, "The evolution of quiescent galaxies at high redshifts ($z = 1.4$)", MNRAS, 417, 900

193) Riguccini et al. 2011, "Dust-obscured star formation and the contribution of galaxies escaping UV/optical color selections at $z \sim 2$", A&A, 534, A81


198) Ikeda et al. 2011, "Probing the Faint End of the Quasar Luminosity Function at $z \sim 4$ in the COSMOS Field", ApJL, 728, 25


202) Bolzonella et al. 2010, "Tracking the impact of environment on the galaxy stellar mass function up to $z = 1$ in the 10 k zCOSMOS sample", A&A, 524, A76


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213) Aravena et al. 2010, "Identification of Two Bright z > 3 Submillimeter Galaxy Candidates in the COSMOS Field", ApJL, 719, 15


218) Sargent et al. 2010, "The Opacity of Galactic Disks at z ~ 0.7", ApJL, 714, 113


220) Mainieri et al. 2010, "Ultraluminous X-ray sources out to z ~ 0.3 in the COSMOS field", A&A, 514, A85


224) Mancini et al. 2010, "High-redshift elliptical galaxies: are they (all) really compact?", MNRAS, 401, 933

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252) Huertas-Company et al. 2009, "A robust morphological classification of high-redshift galaxies using support vector machines on seeing limited images. II. Quantifying morphological k-correction in the COSMOS field at $1 < z < 2$: Ks band vs. I band", A&A, 497, 743


262) Schinnerer et al. 2008, "Molecular Gas in a Submillimeter Galaxy at $z = 4.5$: Evidence for a Major Merger at 1 Billion Years after the Big Bang", ApJL, 689, 5


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275) Scarlata et al. 2007, "The Redshift Evolution of Early-Type Galaxies in COSMOS: Do Massive Early-Type Galaxies Form by Dry Mergers?", ApJS, 172, 494
Guzzo et al. 2007, "The Cosmic Evolution Survey (COSMOS): A Large-Scale Structure at z=0.73 and the Relation of Galaxy Morphologies to Local Environment", ApJS, 172, 254
Scoville et al. 2007, "Large Structures and Galaxy Evolution in COSMOS at z < 1.1", ApJS, 172, 150
Lilly et al. 2007, "zCOSMOS: A Large VLT/VIMOS Redshift Survey Covering 0 < z < 3 in the COSMOS Field", ApJS, 172, 70
313) Barger et al. 2003, "Optical and Infrared Properties of the 2 Ms Chandra Deep Field North X-Ray Sources", The Astronomical Journal, 126, 632
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Un-Refereed Publications (50)

2) da Silva et al., 2019, “Euclid Near-infrared Imaging Reduction Pipeline: Astrometric Calibration, Resampling and Stacking”, ASPC, 521, 311
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26) Laine et al. 2016, “Imaging of NGC 5907’s stellar stream”, IAUS 217, 324
38) Dominguez Sanchez et al. 2011, conference proceeding, “The evolution of quiescent galaxies at high redshifts (z > 1.4)”
39) Teplitz et al., 2011, ASPC, 442, 363, “Science Validation of the Spitzer Source List”
40) Ilbert et al., 2011, SF2A-2010, 355, “Galaxy stellar mass assembly between 0.2 < z < 2 from the S-COSMOS survey”
41) Levine et al., 2009, ASPC, 411, 29, “Design of the Spitzer Space Telescope Heritage Archive”
42) McCracken et al., 2009, MAVO-PROC, 125, “An introduction to the COSMOS survey”
43) Ilbert et al., 2008, ASPC, 399, 169, “Photometric Redshifts and Stellar Mass Assembly in the 2-deg2 COSMOS Field”
45) Scoville et al., 2007, AIPC, 943, 221, “IRAC Deep Survey Of COSMOS”
46) Impey et al., 2007, IAUS, 238, 287, “A survey of AGN and supermassive black holes in the COSMOS Survey”
47) Hu et al., 2005, pgqa.conf, 363, “Spectroscopic studies of z ~5.7 and z~6.5 galaxies: implications for reionisation”
48) Capak et al., 2004, mmgf.conf, 363, “Constraining the Star Formation History with Photometric Redshifts”
49) Fomalont et al., 2003, ASPC, 300, 259, “The Radio and Optical Morphologies of Micro-Jansky Radio Sources”
Public Data Releases (45)

1) Tasca et al., 2018, "VIMOS Ultra Deep Survey (VUDS) DR1"
2) Scoville et al., 2018, "ALMA galaxy properties in the COSMOS survey field"
3) Masters et al., 2018, "The Complete Calibration of the Color-Redshift Relation (C3R2) survey: survey overview and Data Release 1."
4) Suh et al., 2018, "Type 2 AGN host galaxies in Chandra-COSMOS"
5) Masters et al., 2017, "3<z<5 quasar luminosity function in the COSMOS"
6) Smolcic et al., 2017, "VLA-COSMOS 3 GHz Large Project. II."
7) Civano et al., 2016, "The COSMOS-Legacy Survey (CLS) catalog"
8) Merlin et al., 2016, "ASTRODEEP Frontier Fields Catalogues"
9) Baronchelli et al., 2016, "Multiwavelength catalog in the SEP field"
10) Silverman et al., 2015, "FMOS-COSMOS survey III. 0.7<z<2.5 galaxies"
11) Finoguenov et al., 2015, "Ultra-deep catalog of X-ray groups in ECDF-S"
12) Smolcic et al., 2015, "The VLA-COSMOS Survey. V. 324MHz"
13) Hanish et al., 2015, "SAFIRES: Spitzer Archival FIR Extragalactic Survey"
14) Hao et al., 2014, "SEDs of type I AGN in XMM-COSMOS. II."
15) Casey et al., 2014, "SCUBA observations of COSMOS galaxies"
16) Lemaux et al., 2014, "VUDS Discovery of a high-redshift protocluster"
17) Amorin et al., 2014, "VUDS extreme emission line 0.2<~z~<0.9 galaxies"
18) Ilbert et al., 2013, "Multi-color photometry of star-forming galaxies"
19) Civano et al., 2012, "The Chandra COSMOS survey. III"
20) Mainieri et al., 2012, "Type-2 QSOs in XMM-COSMOS"
21) Kirkpatrick et al., 2012, "First brown dwarfs discovered by WISE"
22) Sheth et al., 2011, "Spitzer Survey of Stellar Structure in Galaxies"
23) Silverman et al., 2010, "Optical spectroscopy of ECDS-S X-ray sources"
24) Elvis et al., 2010, "Chandra COSMOS survey I"
25) Jouvel et al., 2009, "Mock spectro-photometric catalog of galaxies"
26) Faure et al., 2009, "COSMOS: strong lens systems"
27) Hathi et al., 2009, "Deep J,H,K images of the GOODS-N field from Subaru and CFHT"
28) Aussel et al., 2009, "GO3 Deep MIPS 24um images and catalogs of the COSMOS field"
29) Frayer et al., 2009, "GO2/3 MIPS 70/160um images and catalogs of the COSMOS field"
30) Lilly et al., 2009, 21720070L, "zCOSMOS-bright catalog"
31) Capak et al., 2009, "COSMOS 0.1-8um Broad, Intermediate, and Narrow band catalog of the COSMOS field"
32) Ilbert et al., 2009, "30 band photometric redshift catalog of the COSMOS field"
33) Salvato et al., 2009, "30 band photometric redshift catalog of AGN in the COSMOS field"
34) Capak et al., 2009, "Deep J, K images of the COSMOS field"
35) Fomalont et al., 2008, 21670103F, "Radio/Optical catalog of the SSA 13 field"
36) Salvato et al., 2008, "Deep Sptizer IRAC imaging of the COSMOS field"
37) Aussel et al., 2008, "GO2 MIPS 24um images and catalog of the COSMOS field"
38) Capak et al., 2008, 21720099C, "COSMOS Multi-Wavelength Photometry Catalog"
39) Murayama et al., 2008, 21720523M, "COSMOS field Ly-alpha emitters at z~5.7"
40) Takahashi et al., 2008, 21720456T, "[OII] emitting galaxies in COSMOS & SDF fields"
41) Trump et al., 2008, 21720383T, "AGN candidates in the COSMOS field"
42) Mainieri et al., 2008, 21720368M, “XMM-Newton survey in COSMOS field. IV”
43) Finoguenov et al., 2008, 21729183F, “XMM Clusters of galaxies in COSMOS field”
45) Wirth et al. 2004, “KTRS redshift catalog of the GOODS-N field”