

Roberto Scaramella

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

6,630
citations

201674

27
h-index

214800

47
g-index

51
all docs

51
docs citations

51
times ranked

4791
citing authors

#	ARTICLE	IF	CITATIONS
1	MASS AND ENVIRONMENT AS DRIVERS OF GALAXY EVOLUTION IN SDSS AND zCOSMOS AND THE ORIGIN OF THE SCHECHTER FUNCTION. <i>Astrophysical Journal</i> , 2010, 721, 193-221.	4.5	1,485
2	zCOSMOS: A Large VLT/VIMOS Redshift Survey Covering $0 < z < 3$ in the COSMOS Field. <i>Astrophysical Journal</i> , Supplement Series, 2007, 172, 70-85.	7.7	775
3	Cosmology and Fundamental Physics with the Euclid Satellite. <i>Living Reviews in Relativity</i> , 2013, 16, 6.	26.7	683
4	Cosmology and fundamental physics with the Euclid satellite. <i>Living Reviews in Relativity</i> , 2018, 21, 2.	26.7	602
5	A test of the nature of cosmic acceleration using galaxy redshift distortions. <i>Nature</i> , 2008, 451, 541-544.	27.8	545
6	THE zCOSMOS 10k-BRIGHT SPECTROSCOPIC SAMPLE. <i>Astrophysical Journal</i> , Supplement Series, 2009, 184, 218-229.	7.7	481
7	The GALEX -VVDS Measurement of the Evolution of the Far-Ultraviolet Luminosity Density and the Cosmic Star Formation Rate. <i>Astrophysical Journal</i> , 2005, 619, L47-L50.	4.5	278
8	The GALEX VIMOS-VLT Deep Survey Measurement of the Evolution of the 1500 Å... Luminosity Function. <i>Astrophysical Journal</i> , 2005, 619, L43-L46.	4.5	182
9	Origins of weak lensing systematics, and requirements on future instrumentation (or knowledge of) $T_j \text{ ETQq1 } 1 \text{ 0.784314 rgBT}_{153} / \text{Over}$	4.4	153
10	The VVDS Dataâ€Reduction Pipeline: Introducing VIPGI, the VIMOS Interactive Pipeline and Graphical Interface. <i>Publications of the Astronomical Society of the Pacific</i> , 2005, 117, 1284-1295.	3.1	150
11	<i>Euclid</i> preparation. <i>Astronomy and Astrophysics</i> , 2022, 662, A112.	5.1	106
12	AN OPTICAL GROUP CATALOG TO $z < 1$ FROM THE zCOSMOS 10 k SAMPLE. <i>Astrophysical Journal</i> , 2009, 697, 1842-1860.	4.5	103
13	EZ: A Tool For Automatic Redshift Measurement. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 827-838.	3.1	94
14	All-sky catalogs of superclusters of Abell-ACO clusters. <i>Astrophysical Journal</i> , 1993, 407, 470.	4.5	83
15	Defining a weak lensing experiment in space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 3103-3126.	4.4	74
16	The dwarf LSB galaxy population of the Virgo cluster – I. The faint-end slope of the luminosity function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 341, 981-992.	4.4	73
17	THE 10k zCOSMOS: MORPHOLOGICAL TRANSFORMATION OF GALAXIES IN THE GROUP ENVIRONMENT SINCE $z < 1/41$. <i>Astrophysical Journal</i> , 2010, 718, 86-104.	4.5	63
18	The Very Large Telescope Visible Multiâ€Object Spectrograph Mask Preparation Software. <i>Publications of the Astronomical Society of the Pacific</i> , 2005, 117, 996-1003.	3.1	60

#	ARTICLE	IF	CITATIONS
19	The Euclid mission design. Proceedings of SPIE, 2016, , .	0.8	52
20	Possible geometric patterns in 0.1c scale structure. Astrophysical Journal, 1992, 388, 9.	4.5	50
21	Bias in the estimation of global luminosity functions. Monthly Notices of the Royal Astronomical Society, 2004, 351, 541-551.	4.4	48
22	A large population of galaxies 9 to 12 billion years back in the history of the Universe. Nature, 2005, 437, 519-521.	27.8	43
23	THE DEPENDENCE OF STAR FORMATION ACTIVITY ON STELLAR MASS SURFACE DENSITY AND SERSIC INDEX IN zCOSMOS GALAXIES AT 0.5 <i>z</i> <i>0.9</i> COMPARED WITH SDSS GALAXIES AT 0.04 <i>z</i> <i>0.08</i>. Astrophysical Journal, 2009, 694, 1099-1114.	4.5	36
24	On the shear estimation bias induced by the spatial variation of colour across galaxy profiles. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2385-2401.	4.4	36
25	A Hydrodynamic Approach to Cosmology: Nonlinear Effects on Cosmic Backgrounds in the Cold Dark Matter Model. Astrophysical Journal, 1993, 416, 399.	4.5	35
26	Constraining modified gravitational theories by weak lensing with Euclid. Physical Review D, 2011, 83, .	4.7	35
27	The Optical Spectra of 24 $\hat{1}/4$ m Galaxies in the COSMOS Field. I. <i>Spitzer</i> <i>MIPS</i> Bright Sources in the zCOSMOSâ€Bright 10k Catalog. Astrophysical Journal, 2008, 680, 939-961.	4.5	32
28	Non-Gaussian temperature fluctuations in the cosmic microwave background sky from a random Gaussian density field. Astrophysical Journal, 1991, 375, 439.	4.5	25
29	Understanding the shape of the galaxy two-point correlation function at $z \hat{=} 1$ in the COSMOS field. Monthly Notices of the Royal Astronomical Society, 2010, 409, 867-872.	4.4	24
30	A comparison of ACO and Abell catalogs of clusters. Astronomical Journal, 1991, 101, 342.	4.7	23
31	The distribution of clusters of galaxies within 300 Mpc/h and the crossover to an isotropic and homogeneous universe. Astrophysical Journal, 1991, 376, L1.	4.5	23
32	Virgos-VLT deep survey (VVDS). , 2003, 4834, 173.		22
33	Weak lensing peak count as a probe of f(R) theories. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2896-2909.	4.4	19
34	THE NONLINEAR BIASING OF THE zCOSMOS GALAXIES UP TO <i>z</i> $\hat{=} 1$ FROM THE 10k SAMPLE. Astrophysical Journal, 2011, 731, 102.	4.5	18
35	Constraints on the amplitude of primordial density fluctuations from the large-scale cosmic microwave background temperature distribution. Astrophysical Journal, 1990, 353, 372.	4.5	18
36	Increasing the lensing figure of merit through higher order convergence moments. Physical Review D, 2018, 97, .	4.7	15

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37	Cosmological dipoles in depth. <i>Astrophysical Journal</i> , 1994, 422, 1.	4.5	13
38	THE OPTICAL SPECTRA OF <i>SPITZER</i> 24 $\hat{1}/4$ m GALAXIES IN THE COSMIC EVOLUTION SURVEY FIELD. II. FAINT INFRARED SOURCES IN THE zCOSMOS-BRIGHT 10k CATALOG. <i>Astrophysical Journal</i> , 2009, 707, 1387-1403.	4.5	11
39	The power spectrum of systematics in cosmic shear tomography and the bias on cosmological parameters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 202-220.	4.4	10
40	Data reduction and astrometry strategies for wide-field images: an application to the Capodimonte Deep Field. , 2002, 4836, 406.		8
41	Large-scale retrospective relative spectrophotometric self-calibration in space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 3677-3698.	4.4	8
42	Data analysis and Monte Carlo simulation of a cosmic background radiation anisotropy experiment. <i>Astrophysical Journal</i> , 1989, 341, 163.	4.5	8
43	On the large-scale anisotropy of the cosmic microwave background. <i>Astrophysical Journal</i> , 1988, 331, L53.	4.5	7
44	Mass fluctuations on 600/h MPC - A result from clusters of galaxies. <i>Astrophysical Journal</i> , 1992, 390, L57.	4.5	7
45	Cosmic microwave background fluctuations as observed by COBE - Theoretical and experimental uncertainties. <i>Astrophysical Journal</i> , 1993, 411, 1.	4.5	5
46	A recently reported 'bump' in the cosmic microwave background - When could it have originated?. <i>Astrophysical Journal</i> , 1989, 346, 607.	4.5	3
47	The data handling unit of the Euclid imaging channels: from the observational requirements to the unit architecture. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
48	The command and data processing unit of the EUCLID visible imager: impact of the data compression needs on the unit design. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
49	On the agreement between COBE anisotropy results and specific predictions from clusters of galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 1993, 262, L43-L47.	4.4	1
50	GOHSS: A MOS fiber-fed multi-echelle spectrograph in the near infrared (0.9-1.8 $\hat{1}/4$ m). , 2003, 4841, 94.		1
51	Hunting for Ghosts: Low Surface Brightness Galaxies from Pixels. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 295-299.	0.0	0