

Francesco Fsl Sylos Labini

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

1,635
citations

279798

23
h-index

330143

37
g-index

94
all docs

94
docs citations

94
times ranked

852
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale-invariance of galaxy clustering. <i>Physics Reports</i> , 1998, 293, 61-226.	25.6	193
2	Glass-like universe: Real-space correlation properties of standard cosmological models. <i>Physical Review D</i> , 2002, 65, .	4.7	107
3	The Scientific Competitiveness of Nations. <i>PLoS ONE</i> , 2014, 9, e113470.	2.5	79
4	Inhomogeneities in the universe. <i>Classical and Quantum Gravity</i> , 2011, 28, 164003.	4.0	55
5	Absence of self-averaging and of homogeneity in the large-scale galaxy distribution. <i>Europhysics Letters</i> , 2009, 86, 49001.	2.0	49
6	Generation of primordial cosmological perturbations from statistical mechanical models. <i>Physical Review D</i> , 2003, 67, .	4.7	44
7	Absence of anti-correlations and of baryon acoustic oscillations in the galaxy correlation function from the Sloan Digital Sky Survey data release 7. <i>Astronomy and Astrophysics</i> , 2009, 505, 981-990.	5.1	44
8	Basic properties of galaxy clustering in the light of recent results from the Sloan Digital Sky Survey. <i>Astronomy and Astrophysics</i> , 2005, 443, 11-16.	5.1	42
9	Linear perturbative theory of the discrete cosmological N-body problem. <i>Physical Review D</i> , 2006, 73, .	4.7	41
10	Fractal Correlations in the CfA2-South Redshift Survey. <i>Astrophysical Journal</i> , 1999, 514, L5-L8.	4.5	40
11	Energy ejection in the collapse of a cold spherical self-gravitating cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 775-792.	4.4	36
12	Breaking the self-averaging properties of spatial galaxy fluctuations in the Sloan Digital Sky Survey "Data release six. <i>Astronomy and Astrophysics</i> , 2009, 508, 17-43.	5.1	34
13	Very large-scale correlations in the galaxy distribution. <i>Europhysics Letters</i> , 2011, 96, 59001.	2.0	33
14	Galaxy distribution and extreme-value statistics. <i>Europhysics Letters</i> , 2009, 88, 59001.	2.0	31
15	Finite size effects on the galaxy number counts: Evidence for fractal behavior up to the deepest scale. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 226, 195-242.	2.6	30
16	Gravitational Evolution of a Perturbed Lattice and its Fluid Limit. <i>Physical Review Letters</i> , 2005, 95, 011304.	7.8	30
17	Power law correlations in galaxy distribution and finite volume effects from the Sloan Digital Sky Survey Data Release Four. <i>Astronomy and Astrophysics</i> , 2007, 465, 23-33.	5.1	30
18	Fractal cosmology in an open universe. <i>Europhysics Letters</i> , 2000, 50, 416-422.	2.0	29

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19	Power-Law Correlation and Discreteness in Cosmological [ITAL]N[/ITAL]-Body Simulations. <i>Astrophysical Journal</i> , 2002, 581, L63-L66.	4.5	28
20	Bias and the Power Spectrum beyond the Turnover. <i>Astrophysical Journal</i> , 2003, 585, L1-L4.	4.5	28
21	Large-scale fluctuations in the distribution of galaxies from the two-degree galaxy redshift survey. <i>Astronomy and Astrophysics</i> , 2009, 496, 7-23.	5.1	26
22	Absence of significant cross-correlation between WMAP and SDSS. <i>Astronomy and Astrophysics</i> , 2010, 513, A3.	5.1	25
23	Statistical Physics for cosmic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 306, 395-401.	2.6	24
24	Persistent fluctuations in the distribution of galaxies from the Two-degree Field Galaxy Redshift Survey. <i>Europhysics Letters</i> , 2009, 85, 29002.	2.0	24
25	Gravitational force distribution in fractal structures. <i>Europhysics Letters</i> , 1999, 46, 127-133.	2.0	21
26	Violent and mild relaxation of an isolated self-gravitating uniform and spherical cloud of particles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 1610-1622.	4.4	20
27	On the Fractal Structure of Galaxy Distribution and its Implications for Cosmology. <i>Fractals</i> , 1998, 06, 231-243.	3.7	19
28	On the problem of initial conditions in cosmological N -body simulations. <i>Europhysics Letters</i> , 2002, 57, 322-328.	2.0	19
29	Large scale correlations in galaxy clustering from the two degree field galaxy redshift survey. <i>Astronomy and Astrophysics</i> , 2006, 447, 431-440.	5.1	18
30	Gravitational dynamics of an infinite shuffled lattice of particles. <i>Physical Review E</i> , 2007, 75, 021113.	2.1	18
31	Testing the Copernican and Cosmological Principles in the local universe with galaxy surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 021-021.	5.4	18
32	Universal properties of violently relaxed gravitational structures. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 679-687.	4.4	18
33	Biasing in Gaussian Random Fields and Galaxy Correlations. <i>Astrophysical Journal</i> , 2000, 531, L1-L4.	4.5	17
34	Extension and estimation of correlations in cold dark matter models. <i>Astronomy and Astrophysics</i> , 2008, 477, 381-395.	5.1	16
35	Force distribution in a randomly perturbed lattice of identical particles with $1/\hat{r}^2$ pair interaction. <i>Physical Review E</i> , 2006, 74, 021110.	2.1	14
36	Violent relaxation of ellipsoidal clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2634-2643.	4.4	14

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37	On the generation of triaxiality in the collapse of cold spherical self-gravitating systems. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4458-4464.	4.4	14
38	Multifractality as a Link between Luminosity and Space Distribution of Visible Matter. Astrophysical Journal, 1996, 469, 26.	4.5	14
39	The Power Spectrum in a Strongly Inhomogenous Universe. Astrophysical Journal, 1996, 468, L1-L4.	4.5	14
40	Fluctuations in galaxy counts: A new test for homogeneity vs . fractality. Europhysics Letters, 2001, 54, 286-292.	2.0	13
41	Evolution of isolated overdensities as a control on cosmological N-body simulations. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1088-1101.	4.4	13
42	Isotropy, homogeneity, and dipole saturation. Astrophysical Journal, 1994, 433, 464.	4.5	13
43	Transient Spiral Arms from Far Out-of-equilibrium Gravitational Evolution. Astrophysical Journal, 2017, 851, 19.	4.5	12
44	Long-lived transient structure in collisionless self-gravitating systems. Physical Review E, 2019, 99, 022125.	2.1	12
45	Angular projections of fractal sets. Europhysics Letters, 1997, 40, 491-496.	2.0	11
46	Dynamics of finite and infinite self-gravitating systems with cold quasi-uniform initial conditions. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P04019.	2.3	11
47	Statistical analysis of the Perseus-Pisces redshift survey: spatial and luminosity properties. Physica A: Statistical Mechanics and Its Applications, 1996, 230, 336-358.	2.6	10
48	Growth of correlations in gravitational N-body simulations. Physical Review D, 2004, 69, .	4.7	10
49	Gravitational dynamics of an infinite shuffled lattice: Early time evolution and universality of nonlinear correlations. Physical Review E, 2008, 77, 051114.	2.1	10
50	The complex universe: recent observations and theoretical challenges. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11029.	2.3	10
51	STATISTICAL PHYSICS FOR COSMIC STRUCTURES. , 2005, , .		9
52	Spatial density fluctuations and selection effects in galaxy redshift surveys. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 035-035.	5.4	9
53	Radial Velocities in the Outermost Disk toward the Anticenter. Astronomical Journal, 2019, 157, 26.	4.7	9
54	Zipf's law for cosmic structures: How large are the greatest structures in the universe?. Astronomy and Astrophysics, 2021, 651, A114.	5.1	9

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55	The LEDA galaxy distribution. <i>Astronomy and Astrophysics</i> , 2004, 423, 27-32.	5.1	9
56	Particle number dependence in the non-linear evolution of N-body self-gravitating systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 2348-2354.	4.4	8
57	Galaxy number counts and fractal correlations. <i>Europhysics Letters</i> , 1997, 39, 103-108.	2.0	7
58	Statistical Properties of the LEDA Redshift Database. <i>Fractals</i> , 1997, 05, 635-660.	3.7	7
59	Luminosity Density Estimation from Redshift Surveys and the Mass Density of the Universe. <i>Astrophysical Journal</i> , 2001, 554, L1-L4.	4.5	7
60	Gravitational force in weakly correlated particle spatial distributions. <i>Physical Review E</i> , 2004, 69, 031110.	2.1	7
61	Statistical physics for cosmic structures. <i>European Physical Journal B</i> , 2008, 64, 615-623.	1.5	5
62	Characterizing the large scale inhomogeneity of the galaxy distribution. , 2010, , .		5
63	Formation of satellites from cold collapse. <i>Astronomy and Astrophysics</i> , 2017, 598, A95.	5.1	5
64	Nonaxisymmetric models of galaxy velocity maps. <i>Astronomy and Astrophysics</i> , 2019, 622, A58.	5.1	5
65	A toy model to test the accuracy of cosmological N -body simulations. <i>Astronomy and Astrophysics</i> , 2013, 552, A36.	5.1	5
66	Stable clustering and the resolution of dissipationless cosmological N-body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4099-4111.	4.4	5
67	Statistical properties of galaxy cluster distribution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 246, 1-17.	2.6	4
68	Fractal universe. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 280, 125-130.	2.6	4
69	Formation of disks with long-lived spiral arms from violent gravitational dynamics. <i>Physical Review E</i> , 2020, 102, 042108.	2.1	4
70	Angular Correlations of Galaxy Distribution. <i>Astrophysical Journal</i> , 1997, 487, L21-L24.	4.5	4
71	Universality of power law correlations in gravitational clustering. <i>Europhysics Letters</i> , 2004, 66, 171-177.	2.0	3
72	The study of the equilibrium and of the dynamical properties of long-range interacting systems. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	3

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73	Properties of self-gravitating quasi-stationary states. <i>Astronomy and Astrophysics</i> , 2020, 643, A118.	5.1	3
74	Statistical properties of galaxy distributions. <i>Nonlinear Processes in Geophysics</i> , 1996, 3, 274-283.	1.3	2
75	Reverse age discrimination. <i>Nature Physics</i> , 2007, 3, 582-583.	16.7	2
76	Gravitational clustering: an overview. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
77	Gravitational fluctuations of the galaxy distribution. <i>Astronomy and Astrophysics</i> , 2010, 523, A68.	5.1	2
78	SCALING IN COSMIC STRUCTURES. <i>Fractals</i> , 2003, 11, 271-279.	3.7	1
79	Complexity in cosmic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 44-49.	2.6	1
80	The problem of cosmological dark matter and statistical physics. <i>European Physical Journal: Special Topics</i> , 2007, 143, 223-230.	2.6	1
81	Prioritizing the First Doses of SARS-CoV-2 Vaccine to Save the Elderly: The Case Study of Italy. <i>Frontiers in Public Health</i> , 2021, 9, 684760.	2.7	1
82	Correlation and Clustering. , 2001, , 151-160.		1
83	Real Space Statistical Properties of Standard Cosmological Models. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0
84	Gravitational structure formation, the cosmological problem and statistical physics. <i>European Physical Journal B</i> , 2006, 50, 285-289.	1.5	0
85	Primordial density fields, super-homogeneity and galaxy clustering. <i>New Astronomy Reviews</i> , 2007, 51, 437-441.	12.8	0
86	Cold uniform spherical collapse revisited. , 2010, , .		0
87	Gravitational collapse from cold uniform asymmetric initial conditions. <i>Astronomy and Astrophysics</i> , 2021, 652, A8.	5.1	0
88	Complexity in Cosmology. , 2001, , 287-302.		0
89	Fractal structures and the large scale distribution of galaxies. , 2001, , 391-417.		0
90	Initial Conditions, Discreteness and Non-Linear Structure Formation in Cosmology. , 2003, , 263-290.		0

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91	On the Description of Financial Markets: A Physicist's Viewpoint. Studies in Applied Philosophy, Epistemology and Rational Ethics, 2017, , 63-71.	0.3	0