

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	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
2	Zipf's law for cosmic structures: How large are the greatest structures in the universe?. <i>Astronomy and Astrophysics</i> , 2021, 651, A114.	5.1	9
3	Gravitational collapse from cold uniform asymmetric initial conditions. <i>Astronomy and Astrophysics</i> , 2021, 652, A8.	5.1	0
4	Formation of disks with long-lived spiral arms from violent gravitational dynamics. <i>Physical Review E</i> , 2020, 102, 042108.	2.1	4
5	Properties of self-gravitating quasi-stationary states. <i>Astronomy and Astrophysics</i> , 2020, 643, A118.	5.1	3
6	Nonaxisymmetric models of galaxy velocity maps. <i>Astronomy and Astrophysics</i> , 2019, 622, A58.	5.1	5
7	Long-lived transient structure in collisionless self-gravitating systems. <i>Physical Review E</i> , 2019, 99, 022125.	2.1	12
8	Radial Velocities in the Outermost Disk toward the Anticenter. <i>Astronomical Journal</i> , 2019, 157, 26.	4.7	9
9	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
10	Formation of satellites from cold collapse. <i>Astronomy and Astrophysics</i> , 2017, 598, A95.	5.1	5
11	Transient Spiral Arms from Far Out-of-equilibrium Gravitational Evolution. <i>Astrophysical Journal</i> , 2017, 851, 19.	4.5	12
12	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
13	On the Description of Financial Markets: A Physicist's Viewpoint. <i>Studies in Applied Philosophy, Epistemology and Rational Ethics</i> , 2017, , 63-71.	0.3	0
14	Violent relaxation of ellipsoidal clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2634-2643.	4.4	14
15	On the generation of triaxiality in the collapse of cold spherical self-gravitating systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 4458-4464.	4.4	14
16	The Scientific Competitiveness of Nations. <i>PLoS ONE</i> , 2014, 9, e113470.	2.5	79
17	Spatial density fluctuations and selection effects in galaxy redshift surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 035-035.	5.4	9
18	Evolution of isolated overdensities as a control on cosmological N-body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1088-1101.	4.4	13

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19	Universal properties of violently relaxed gravitational structures. Monthly Notices of the Royal Astronomical Society, 2013, 429, 679-687.	4.4	18
20	A toy model to test the accuracy of cosmological N -body simulations. Astronomy and Astrophysics, 2013, 552, A36.	5.1	5
21	Violent and mild relaxation of an isolated self-gravitating uniform and spherical cloud of particles. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1610-1622.	4.4	20
22	Very large-scale correlations in the galaxy distribution. Europhysics Letters, 2011, 96, 59001.	2.0	33
23	Inhomogeneities in the universe. Classical and Quantum Gravity, 2011, 28, 164003.	4.0	55
24	Gravitational fluctuations of the galaxy distribution. Astronomy and Astrophysics, 2010, 523, A68.	5.1	2
25	Absence of significant cross-correlation between WMAP and SDSS. Astronomy and Astrophysics, 2010, 513, A3.	5.1	25
26	The complex universe: recent observations and theoretical challenges. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11029.	2.3	10
27	Characterizing the large scale inhomogeneity of the galaxy distribution. , 2010, , .		5
28	Cold uniform spherical collapse revisited. , 2010, , .		0
29	Testing the Copernican and Cosmological Principles in the local universe with galaxy surveys. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 021-021.	5.4	18
30	Breaking the self-averaging properties of spatial galaxy fluctuations in the Sloan Digital Sky Survey "Data release six. Astronomy and Astrophysics, 2009, 508, 17-43.	5.1	34
31	Absence of anti-correlations and of baryon acoustic oscillations in the galaxy correlation function from the Sloan Digital Sky Survey data release 7. Astronomy and Astrophysics, 2009, 505, 981-990.	5.1	44
32	Galaxy distribution and extreme-value statistics. Europhysics Letters, 2009, 88, 59001.	2.0	31
33	Persistent fluctuations in the distribution of galaxies from the Two-degree Field Galaxy Redshift Survey. Europhysics Letters, 2009, 85, 29002.	2.0	24
34	Absence of self-averaging and of homogeneity in the large-scale galaxy distribution. Europhysics Letters, 2009, 86, 49001.	2.0	49
35	Energy ejection in the collapse of a cold spherical self-gravitating cloud. Monthly Notices of the Royal Astronomical Society, 2009, 397, 775-792.	4.4	36
36	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

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37	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
38	Statistical physics for cosmic structures. <i>European Physical Journal B</i> , 2008, 64, 615-623.	1.5	5
39	The study of the equilibrium and of the dynamical properties of long-range interacting systems. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	3
40	Gravitational clustering: an overview. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
41	Gravitational dynamics of an infinite shuffled lattice: Early time evolution and universality of nonlinear correlations. <i>Physical Review E</i> , 2008, 77, 051114.	2.1	10
42	Extension and estimation of correlations in cold dark matter models. <i>Astronomy and Astrophysics</i> , 2008, 477, 381-395.	5.1	16
43	Gravitational dynamics of an infinite shuffled lattice of particles. <i>Physical Review E</i> , 2007, 75, 021113.	2.1	18
44	Primordial density fields, super-homogeneity and galaxy clustering. <i>New Astronomy Reviews</i> , 2007, 51, 437-441.	12.8	0
45	Reverse age discrimination. <i>Nature Physics</i> , 2007, 3, 582-583.	16.7	2
46	The problem of cosmological dark matter and statistical physics. <i>European Physical Journal: Special Topics</i> , 2007, 143, 223-230.	2.6	1
47	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
48	Linear perturbative theory of the discrete cosmological N-body problem. <i>Physical Review D</i> , 2006, 73, .	4.7	41
49	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
50	Gravitational structure formation, the cosmological problem and statistical physics. <i>European Physical Journal B</i> , 2006, 50, 285-289.	1.5	0
51	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
52	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
53	Gravitational Evolution of a Perturbed Lattice and its Fluid Limit. <i>Physical Review Letters</i> , 2005, 95, 011304.	7.8	30
54	STATISTICAL PHYSICS FOR COSMIC STRUCTURES. , 2005, , .		9

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55	Universality of power law correlations in gravitational clustering. <i>Europhysics Letters</i> , 2004, 66, 171-177.	2.0	3
56	Growth of correlations in gravitational N-body simulations. <i>Physical Review D</i> , 2004, 69, .	4.7	10
57	Complexity in cosmic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 44-49.	2.6	1
58	Gravitational force in weakly correlated particle spatial distributions. <i>Physical Review E</i> , 2004, 69, 031110.	2.1	7
59	The LEDA galaxy distribution. <i>Astronomy and Astrophysics</i> , 2004, 423, 27-32.	5.1	9
60	Generation of primordial cosmological perturbations from statistical mechanical models. <i>Physical Review D</i> , 2003, 67, .	4.7	44
61	SCALING IN COSMIC STRUCTURES. <i>Fractals</i> , 2003, 11, 271-279.	3.7	1
62	Real Space Statistical Properties of Standard Cosmological Models. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0
63	Bias and the Power Spectrum beyond the Turnover. <i>Astrophysical Journal</i> , 2003, 585, L1-L4.	4.5	28
64	Initial Conditions, Discreteness and Non-Linear Structure Formation in Cosmology. , 2003, , 263-290.		0
65	Class-like universe: Real-space correlation properties of standard cosmological models. <i>Physical Review D</i> , 2002, 65, .	4.7	107
66	On the problem of initial conditions in cosmological N -body simulations. <i>Europhysics Letters</i> , 2002, 57, 322-328.	2.0	19
67	Statistical Physics for cosmic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 306, 395-401.	2.6	24
68	Power-Law Correlation and Discreteness in Cosmological [ITAL]N[/ITAL]-Body Simulations. <i>Astrophysical Journal</i> , 2002, 581, L63-L66.	4.5	28
69	Luminosity Density Estimation from Redshift Surveys and the Mass Density of the Universe. <i>Astrophysical Journal</i> , 2001, 554, L1-L4.	4.5	7
70	Fluctuations in galaxy counts: A new test for homogeneity vs . fractality. <i>Europhysics Letters</i> , 2001, 54, 286-292.	2.0	13
71	Correlation and Clustering. , 2001, , 151-160.		1
72	Complexity in Cosmology. , 2001, , 287-302.		0

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73	Fractal structures and the large scale distribution of galaxies. , 2001, , 391-417.		0
74	Biasing in Gaussian Random Fields and Galaxy Correlations. Astrophysical Journal, 2000, 531, L1-L4.	4.5	17
75	Fractal universe. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 125-130.	2.6	4
76	Fractal cosmology in an open universe. Europhysics Letters, 2000, 50, 416-422.	2.0	29
77	Gravitational force distribution in fractal structures. Europhysics Letters, 1999, 46, 127-133.	2.0	21
78	Fractal Correlations in the CfA2-South Redshift Survey. Astrophysical Journal, 1999, 514, L5-L8.	4.5	40
79	Scale-invariance of galaxy clustering. Physics Reports, 1998, 293, 61-226.	25.6	193
80	On the Fractal Structure of Galaxy Distribution and its Implications for Cosmology. Fractals, 1998, 06, 231-243.	3.7	19
81	Galaxy number counts and fractal correlations. Europhysics Letters, 1997, 39, 103-108.	2.0	7
82	Angular projections of fractal sets. Europhysics Letters, 1997, 40, 491-496.	2.0	11
83	Statistical Properties of the LEDA Redshift Database. Fractals, 1997, 05, 635-660.	3.7	7
84	Statistical properties of galaxy cluster distribution. Physica A: Statistical Mechanics and Its Applications, 1997, 246, 1-17.	2.6	4
85	Angular Correlations of Galaxy Distribution. Astrophysical Journal, 1997, 487, L21-L24.	4.5	4
86	Statistical properties of galaxy distributions. Nonlinear Processes in Geophysics, 1996, 3, 274-283.	1.3	2
87	Finite size effects on the galaxy number counts: Evidence for fractal behavior up to the deepest scale. Physica A: Statistical Mechanics and Its Applications, 1996, 226, 195-242.	2.6	30
88	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
89	Multifractality as a Link between Luminosity and Space Distribution of Visible Matter. Astrophysical Journal, 1996, 469, 26.	4.5	14
90	The Power Spectrum in a Strongly Inhomogenous Universe. Astrophysical Journal, 1996, 468, L1-L4.	4.5	14

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91	Isotropy, homogeneity, and dipole saturation. <i>Astrophysical Journal</i> , 1994, 433, 464.	4.5	13