Hoffman Yehuda

List of Publications by Year
in descending order

120 papers	6,104 citations	61984 43 h-index	76900 74 g-index
121 all docs	121 docs citations	121 times ranked	3250 citing authors

#	Article	IF	Citations
1	Dark Halos: The Flattening of the Density Cusp by Dynamical Friction. Astrophysical Journal, 2001, 560, 636-643.	4.5	317
2	Constrained realizations of Gaussian fields - A simple algorithm. Astrophysical Journal, 1991, 380, L5.	4.5	294
3	The Laniakea supercluster of galaxies. Nature, 2014, 513, 71-73.	27.8	235
4	Constrained Simulations of the Real Universe. II. Observational Signatures of Intergalactic Gas in the Local Supercluster Region. Astrophysical Journal, 2002, 571, 563-575.	4.5	227
5	Tracing the cosmic web. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1195-1217.	4.4	187
6	Testing tidal-torque theory - I. Spin amplitude and direction. Monthly Notices of the Royal Astronomical Society, 2002, 332, 325-338.	4.4	183
7	Flat-cored Dark Matter in Cuspy Clusters of Galaxies. Astrophysical Journal, 2004, 607, L75-L78.	4.5	168
8	The structure of voids. Monthly Notices of the Royal Astronomical Society, 2003, 344, 715-724.	4.4	166
9	Cosmic Dawn (CoDa): the first radiation-hydrodynamics simulation of reionization and galaxy formation in the Local Universe. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1462-1485.	4.4	163
10	Erasing Dark Matter Cusps in Cosmological Galactic Halos with Baryons. Astrophysical Journal, 2008, 685, L105-L108.	4.5	154
11	A kinematic classification of the cosmic web. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2049-2057.	4.4	139
12	Testing tidal-torque theory - II. Alignment of inertia and shear and the characteristics of protohaloes. Monthly Notices of the Royal Astronomical Society, 2002, 332, 339-351.	4.4	127
13	Constrained Simulations of the Real Universe: The Local Supercluster. Astrophysical Journal, 2003, 596, 19-33.	4.5	113
14	Wiener Reconstruction of Largeâ€Scale Structure from Peculiar Velocities. Astrophysical Journal, 1999, 520, 413-425.	4.5	104
15	The preferred direction of infalling satellite galaxies in the Local Group. Monthly Notices of the Royal Astronomical Society, 2011, 411, 1525-1535.	4.4	100
16	DISSECTING GALAXY FORMATION. I. COMPARISON BETWEEN PURE DARK MATTER AND BARYONIC MODELS. Astrophysical Journal, 2009, 702, 1250-1267.	4.5	95
17	DWARF GALAXIES AND THE COSMIC WEB. Astrophysical Journal Letters, 2013, 763, L41.	8.3	94
18	The cosmic web and the orientation of angular momenta. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 421, L137-L141.	3.3	89

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19	Cosmic Dawn II (CoDa II): a new radiation-hydrodynamics simulation of the self-consistent coupling of galaxy formation and reionization. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4087-4107.	4.4	89
20	Planes of satellite galaxies and the cosmic web. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1052-1059.	4.4	88
21	COSMOGRAPHY OF THE LOCAL UNIVERSE. Astronomical Journal, 2013, 146, 69.	4.7	86
22	Action Dynamics of the Local Supercluster. Astrophysical Journal, 2017, 850, 207.	4.5	84
23	THREE-DIMENSIONAL VELOCITY AND DENSITY RECONSTRUCTIONS OF THE LOCAL UNIVERSE WITH COSMICFLOWS-1. Astrophysical Journal, 2012, 744, 43.	4.5	83
24	Constrained simulations of the Local Group: on the radial distribution of substructures. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1889-1897.	4.4	80
25	The universal nature of subhalo accretion. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1274-1280.	4.4	72
26	Cosmicflows Constrained Local UniversE Simulations. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2078-2090.	4.4	72
27	The distribution function of dark matter in massive haloes. Monthly Notices of the Royal Astronomical Society, 2008, 388, 815-828.	4.4	68
28	The grouping, merging and survival of subhaloes in the simulated Local Group. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1899-1910.	4.4	67
29	Disk Evolution and Bar Triggering Driven by Interactions with Dark Matter Substructure. Astrophysical Journal, 2008, 687, L13-L16.	4.5	64
30	The dipole repeller. Nature Astronomy, 2017, 1, .	10.1	62
31	The <scp>hestia</scp> project: simulations of the Local Group. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2968-2983.	4.4	56
32	Clustering in Redshift Space: Linear Theory. Astrophysical Journal, 1996, 462, 25.	4.5	56
33	Largeâ€Scale Power Spectrum from Peculiar Velocities via Likelihood Analysis. Astrophysical Journal, 1997, 486, 21-31.	4.5	56
34	Cosmic bulk flow and the local motion from Cosmicflows-2. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4494-4505.	4.4	54
35	The Wiener-filtered COBE DMR Data and Predictions for the Tenerife Experiment. Astrophysical Journal, 1996, 464, 1.	4.5	54
36	Cosmicflows-3: Two Distanceâ€“Velocity Calculators. Astronomical Journal, 2020, 159, 67.	4.7	54

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37	COSMIC VORTICITY AND THE ORIGIN HALO SPINS. Astrophysical Journal Letters, 2013, 766, L15.	8.3	53
38	Cosmicflows-3: Cosmography of the Local Void. Astrophysical Journal, 2019, 880, 24.	4.5	51
39	The formation of giant low surface brightness galaxies. Astrophysical Journal, 1992, 388, L13.	4.5	51
40	Simulations of the Local Universe constrained by observational peculiar velocities. Monthly Notices of the Royal Astronomical Society, 2014, 437, 3586-3595.	4.4	49
41	The alignment of galaxy spin with the shear field in observations. Monthly Notices of the Royal Astronomical Society, 2016, 457, 695-703.	4.4	48
42	The luminosities of backsplash galaxies in constrained simulations of the Local Group. Monthly Notices of the Royal Astronomical Society, 2011, 412, 529-536.	4.4	47
43	Reconstructing cosmological initial conditions from galaxy peculiar velocities â€“ I. Reverse Zeldovich Approximation. Monthly Notices of the Royal Astronomical Society, 2013, 430, 888-901.	4.4	47
44	Evolution of the Phaseâ€Space Density in Dark Matter Halos. Astrophysical Journal, 2007, 671, 1108-1114.	4.5	44
45	Constrained Local UniversE Simulations: a Local Group factory. Monthly Notices of the Royal Astronomical Society, 2016, 458, 900-911.	4.4	42
46	Wiener filtering of the COBE Differential Microwave Radiometer data. Astrophysical Journal, 1994, 432, L75.	4.5	42
47	Too small to succeed? Lighting up massive dark matter subhaloes of the Milky Way. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 417, L74-L78.	3.3	40
48	Imprints of mass accretion on properties of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2005, 362, 1099-1108.	4.4	39
49	Suppression of star formation in low-mass galaxies caused by the reionization of their local neighbourhood. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1740-1753.	4.4	39
50	Dark matter in the Local Universe. New Astronomy Reviews, 2014, 58, 1-18.	12.8	38
51	Gravitational Collapse in an Expanding Universe: Asymptotic Self-similar Solutions. Astrophysical Journal, 1993, 416, 410.	4.5	38
52	Secondary infall and dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2007, 376, 393-404.	4.4	36
53	Primordial Gaussian perturbation fields - Constrained realizations. Astrophysical Journal, 1992, 384, 448.	4.5	36
54	Formation of Cuspy Density Profiles: A Generic Feature of Collisionless Gravitational Collapse. Astrophysical Journal, 2000, 542, L139-L142.	4.5	35

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55	The dark matter assembly of the Local Group in constrained cosmological simulations of a Î› cold dark matter universe. Monthly Notices of the Royal Astronomical Society, 2011, 417, 1434-1443.	4.4	34
56	Cluster mass functions in the quintessential universe. Monthly Notices of the Royal Astronomical Society, 2004, 349, 595-602.	4.4	33
57	Evolution of Characteristic Quantities for Dark Matter Halo Density Profiles. Astrophysical Journal, 2007, 657, 56-70.	4.5	33
58	Estimating cosmic velocity fields from density fields and tidal tensors. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2422-2435.	4.4	33
59	Size matters: the non-universal density profile of subhaloes in SPH simulations and implications for the Milky Wayâ€™s dSphs. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1220-1229.	4.4	33
60	Galaxy properties and the cosmic web in simulations. Monthly Notices of the Royal Astronomical Society, 2015, 446, 1458-1468.	4.4	33
61	Spherical harmonic analysis of IRAS galaxies: implications for the Great Attractor and Cold Dark Matter. Monthly Notices of the Royal Astronomical Society, 1992, 256, 229-237.	4.4	32
62	Disentangling the dark matter halo from the stellar halo. Monthly Notices of the Royal Astronomical Society, 2011, 418, 336-345.	4.4	32
63	Renegade subhaloes in the Local Group. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 417, L56-L60.	3.3	31
64	The Inhomogeneous Reionization Times of Present-day Galaxies. Astrophysical Journal Letters, 2018, 856, L22.	8.3	31
65	DISSECTING GALAXY FORMATION. II. COMPARING SUBSTRUCTURE IN PURE DARK MATTER AND BARYONIC MODELS. Astrophysical Journal, 2010, 716, 1095-1104.	4.5	28
66	Constrained realizations of Gaussian fields - Reconstruction of the large-scale structure. Astrophysical Journal, 1993, 415, L5.	4.5	28
67	On the relation between the radial alignment of dark matter subhaloes and host mass in cosmological simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 386, L52-L56.	3.3	25
68	THE DARK SIDE OF QSO FORMATION AT HIGH REDSHIFTS. Astrophysical Journal, 2011, 736, 66.	4.5	25
69	Cosmicflows-3: Cold Spot Repeller?. Astrophysical Journal Letters, 2017, 847, L6.	8.3	25
70	Constrained Cosmological Simulations of Dark Matter Halos. Astrophysical Journal, 2006, 637, L93-L96.	4.5	24
71	The Cosmic V-Web. Astrophysical Journal, 2017, 845, 55.	4.5	24
72	The impact of baryonic physics on the shape and radial alignment of substructures in cosmological dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	23

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73	Reconstructing cosmological initial conditions from galaxy peculiar velocities â€“ III. Constrained simulations. Monthly Notices of the Royal Astronomical Society, 2013, 430, 912-923.	4.4	23
74	THE ARROWHEAD MINI-SUPERCLUSTER OF GALAXIES. Astrophysical Journal, 2015, 812, 17.	4.5	23
75	How did the Virgo cluster form?. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2015-2024.	4.4	23
76	The quasi-linear nearby Universe. Nature Astronomy, 2018, 2, 680-687.	10.1	23
77	On the formation and structure of galactic halos. Astrophysical Journal, 1988, 328, 489.	4.5	23
78	Reionization of the Local Group of galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2093-2102.	4.4	22
79	Constraining the mass of the Local Group. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4886-4894.	4.4	22
80	Dark Matter Halos: Velocity Anisotropyâ€“Density Slope Relation. Astrophysical Journal, 2008, 682, 835-840.	4.5	21
81	Reconstructing cosmological initial conditions from galaxy peculiar velocities â€“ II. The effect of observational errors. Monthly Notices of the Royal Astronomical Society, 2013, 430, 902-911.	4.4	21
82	The future of the local large scale structure: the roles of dark matter and dark energy. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 016-016.	5.4	20
83	Cosmic structure and dynamics of the local Universe. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 427, L35-L39.	3.3	20
84	Dynamics of superclusters - Reconciling Omega(0) = 1.0 with observations?. Astrophysical Journal, 1989, 340, 69.	4.5	20
85	The local Hubble flow: is it a manifestation of dark energy?. Monthly Notices of the Royal Astronomical Society, 2008, 386, 390-396.	4.4	19
86	Sum of the masses of the MilkyÂWay and M31: A likelihood-free inference approach. Physical Review D, 2021, 103, .	4.7	19
87	Filaments from the galaxy distribution and from the velocity field in the local universe. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 453, L108-L112.	3.3	18
88	Local gravity and peculiar velocity - Probes of cosmological models. Astrophysical Journal, 1990, 352, 448.	4.5	18
89	Constrained simulations of the local universe - II. The nature of the local Hubble flow. Monthly Notices of the Royal Astronomical Society, 2009, 397, 2070-2080.	4.4	17
90	Cold versus Warm Dark Matter Simulations of a Galaxy Group. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	17

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91	Angular momentum, hierarchical clustering, and local density maxima. Astrophysical Journal, 1988, 329, 8.	4.5	17
92	Cosmicflows-3: The South Pole Wall. Astrophysical Journal, 2020, 897, 133.	4.5	16
93	Constrained Local UniversE Simulations (CLUES). , 2010, , 309-322.		16
94	Constrained simulations of the local universe â€“ I. Mass and motion in the local volume. Monthly Notices of the Royal Astronomical Society, 2007, 378, 1601-1608.	4.4	14
95	Applying scale-free mass estimators to the Local Group in Constrained Local Universe Simulations. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1883-1895.	4.4	14
96	The orientation of planes of dwarf galaxies in the quasi-linear Universe. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3786-3792.	4.4	12
97	Phase-space density profiles in scale-free cosmologies. Monthly Notices of the Royal Astronomical Society, 2008, 391, 559-564.	4.4	11
98	Towards an optimal sampling of peculiar velocity surveys for Wiener Filter reconstructions. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1812-1823.	4.4	11
99	Reionization of the Milky Way, M31, and their satellites â€“ I. Reionization history and star formation. Monthly Notices of the Royal Astronomical Society, 2018, 477, 867-881.	4.4	11
100	From Cosmicflows distance moduli to unbiased distances and peculiar velocities. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3380-3392.	4.4	11
101	Cosmography and Data Visualization. Publications of the Astronomical Society of the Pacific, 2017, 129, 058002.	3.1	10
102	THE TEMPERATURE OF HOT GAS IN GALAXIES AND CLUSTERS: BARYONS DANCING TO THE TUNE OF DARK MATTER. Astrophysical Journal, 2011, 734, 62.	4.5	9
103	The tangential velocity of M31: CLUES from constrained simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 460, L5-L9.	3.3	9
104	On the Mass Assembly History of the Local Group. Monthly Notices of the Royal Astronomical Society, 2019, , .	4.4	9
105	Cold and hot gas distribution around the Milky-Way â€“ M31 system in the HESTIA simulations. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3717-3737.	4.4	9
106	Second-order perturbation theory in an expanding universe - Spherical harmonics expansion. Astrophysical Journal, 1993, 414, 20.	4.5	8
107	From Local Velocities to Microwave Background. Astrophysical Journal, 1997, 490, 473-481.	4.5	7
108	Goodness-of-fit analysis of the Cosmicflows-2 data base of velocities. Monthly Notices of the Royal Astronomical Society, 2016, 461, 4176-4181.	4.4	7

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109	Universal subhalo accretion in cold and warm dark matter cosmologies. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4099-4109.	4.4	5
110	Hamiltonian Monte Carlo reconstruction from peculiar velocities. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	5
111	The effects of incomplete sky coverage on the analysis of large angular scale microwave background anisotropy. Astrophysical Journal, 1994, 425, 359.	4.5	4
112	Estimation of the masses in the local group by gradient boosted decision trees. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2385-2393.	4.4	4
113	COWS: a filament finder for Hessian cosmic web identifiers. Monthly Notices of the Royal Astronomical Society, 2022, 514, 470-479.	4.4	4
114	The abundance and environment of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2016, 460, 297-303.	4.4	3
115	Normalization, cold dark matter, and large-scale velocities. Astrophysical Journal, 1987, 318, L7.	4.5	3
116	The shape of the LoTr 5 planetary nebula. Monthly Notices of the Royal Astronomical Society, 1999, 305, 241-245.	4.4	2
117	The Large-Scale Structure: Bayesian Analysis and Beyond. , 0, , 223-235.		1
118	Simulations of the Local Universe. , 2003, , 399-409.		1
119	Cosmicflows-2. Proceedings of the International Astronomical Union, 2014, 11, 305-309.	0.0	0
120	Isocurvature baryon-dominated open universe - Structure of galactic halos. Astrophysical Journal, 1990, 357, L5.	4.5	0