

Scott T Kay

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

2,714
citations

23
h-index

46
g-index

46
ext. papers

3,033
ext. citations

4.2
avg, IF

4.86
L-index

#	Paper	IF	Citations
46	Is the molecular KS relationship universal down to low metallicities?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 510, 4146-4165	4.3	0
45	Characterizing hydrostatic mass bias with mock-X. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 506, 2533-2550	4.3	7
44	SuperCLASS II. The super cluster assisted shear survey: Project overview and data release 1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 1706-1723	4.3	1
43	Hydrostatic mass estimates of massive galaxy clusters: a study with varying hydrodynamics flavours and non-thermal pressure support. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 1622-1642	4.3	12
42	Stellar splashback: the edge of the intracluster light. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 500, 4181-4192	4.3	11
41	Is there enough star formation in simulated protoclusters?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 501, 1803-1822	4.3	2
40	CCCP and MENeACS: (updated) weak-lensing masses for 100 galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 4684-4703	4.3	16
39	Constraining the inner density slope of massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 496, 4717-4733	4.3	6
38	Relativistic SZ temperature scaling relations of groups and clusters derived from the BAHAMAS and MACSIS simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 493, 3274-3292	4.3	10
37	The intracluster light as a tracer of the total matter density distribution: a view from simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 1859-1864	4.3	17
36	SuperCLASS III. Weak lensing from radio and optical observations in Data Release 1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 1737-1759	4.3	5
35	The signal of decaying dark matter with hydrodynamical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 4071-4089	4.3	7
34	An application of machine learning techniques to galaxy cluster mass estimation using the MACSIS simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 484, 1526-1537	4.3	17
33	Disruption of satellite galaxies in simulated groups and clusters: the roles of accretion time, baryons, and pre-processing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 2287-2311	4.3	26
32	Galaxies with monstrous black holes in galaxy cluster environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 396-407	4.3	6
31	The Tiered Radio Extragalactic Continuum Simulation (T-RECS). <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 2-19	4.3	43
30	The Cluster-EAGLE project: a comparison of dynamical mass estimators using simulated clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 3308-3325	4.3	9

29	The connection between mass, environment, and slow rotation in simulated galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 476, 4327-4345	4-3	47
28	Localized massive halo properties in bahamas and MACSIS simulations: scalings, lognormality, and covariance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 478, 2618-2632	4-3	23
27	The evolution of the luminosity function faint end of cluster galaxies in the Cluster-EAGLE simulation. <i>Proceedings of the International Astronomical Union</i> , 2018 , 14, 495-497	0-1	
26	Supercluster simulations: impact of baryons on the matter power spectrum and weak lensing forecasts for Super-CLASS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 3173-3186	4-3	7
25	The Cluster-EAGLE project: velocity bias and the velocity dispersion-mass relation of cluster galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 3746-3759	4-3	27
24	The Cluster-EAGLE project: global properties of simulated clusters with resolved galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 471, 1088-1106	4-3	118
23	The redshift evolution of massive galaxy clusters in the MACSIS simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 465, 213-233	4-3	70
22	The impact of baryons on massive galaxy clusters: halo structure and cluster mass estimates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 465, 3361-3378	4-3	50
21	The Hydrangea simulations: galaxy formation in and around massive clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 4186-4208	4-3	114
20	The XMM Cluster Survey: the halo occupation number of BOSS galaxies in X-ray clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 463, 1929-1943	4-3	5
19	nIFTy galaxy cluster simulations II. Dark matter and non-radiative models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 4063-4080	4-3	48
18	nIFTy galaxy cluster simulations III. Radiative models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 459, 2973-2991	4-3	35
17	Cosmological simulations of galaxy clusters with feedback from active galactic nuclei: profiles and scaling relations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 445, 1774-1796	4-3	38
16	Sunyaev-Zel'dovich clusters in Millennium gas simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 422, 1999-2023	4-3	61
15	The XMM Cluster Survey: optical analysis methodology and the first data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 423, 1024-1052	4-3	115
14	A parametric physical model for the intracluster medium and its use in joint SZ/X-ray analyses of galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 410, 341-358	4-3	12
13	Impact of baryon physics on dark matter structures: a detailed simulation study of halo density profiles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , no-no	4-3	106
12	Galaxies???intergalactic medium interaction calculation ??? I. Galaxy formation as a function of large-scale environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 399, 1773-1794	4-3	200

11	The relationship between substructure in 2D X-ray surface brightness images and weak-lensing mass maps of galaxy clusters: a simulation study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 400, 705-730	4.3	5
10	The Sunyaev-Zel'dovich temperature of the intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 386, 2110-2114	4.3	16
9	Dark matter halo concentrations in the Wilkinson Microwave Anisotropy Probe year 5 cosmology. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008 , 390, L64-L68	4.3	665
8	The XMM Cluster Survey: A Massive Galaxy Cluster at $z = 1.45$. <i>Astrophysical Journal</i> , 2006 , 646, L13-L16	4.7	146
7	Hydrodynamical simulations of the Sunyaev-Zel'dovich effect: cluster scaling relations and X-ray properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 348, 1401-1408	4.3	107
6	Cosmological simulations of the intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 355, 1091-1104	4.3	104
5	Simulated X-ray cluster temperature maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 341, 1246-1252	4.3	12
4	The effect of cooling and preheating on the X-ray properties of clusters of galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 336, 527-540	4.3	122
3	The Impact of Cooling and Preheating on the Sunyaev-Zeldovich Effect. <i>Astrophysical Journal</i> , 2001 , 561, L15-L18	4.7	50
2	Revisiting the cosmic cooling crisis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 326, 1228-1234	4.3	214
1	Redshift evolution of the hot intracluster gas metallicity in the C-EAGLE cluster simulations. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	2