Peter A Thomas

List of Publications by Year
in descending order

72 papers	10,640 citations	101543 36 h-index	95266 68 g-index
72 all docs	72 docs citations	72 times ranked	6174 citing authors

#	Article	IF	Citations
1	Simulations of the formation, evolution and clustering of galaxies and quasars. Nature, 2005, 435, 629-636.	27.8	3,801
2	The EAGLE project: simulating the evolution and assembly of galaxies and their environments. Monthly Notices of the Royal Astronomical Society, 2015, 446, 521-554.	4.4	2,549
3	Galaxy formation in the Planck cosmology â€“ I. Matching the observed evolution of star formation rates, colours and stellar masses. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2663-2680.	4.4	467
4	Galaxy formation in WMAP1 and WMAP7 cosmologies. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1351-1365.	4.4	266
5	Galaxiesï¿½ï¿½intergalactic medium interaction calculation ï¿½ï¿½ I. Galaxy formation as a function of large-scale environment. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1773-1794.	4.4	216
6	Simulations of the galaxy population constrained by observations from z = 3 to the present day: implications for galactic winds and the fate of their ejecta. Monthly Notices of the Royal Astronomical Society, 2013, 431, 3373-3395.	4.4	196
7	The Cluster-EAGLE project: global properties of simulated clusters with resolved galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1088-1106.	4.4	178
8	The structure of galaxy clusters in various cosmologies. Monthly Notices of the Royal Astronomical Society, 1998, 296, 1061-1071.	4.4	175
9	The Hydrangea simulations: galaxy formation in and around massive clusters. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4186-4208.	4.4	167
10	Multiphase smoothed-particle hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2001, 323, 743-756.	4.4	147
11	The effect of cooling and preheating on the X-ray properties of clusters of galaxies. Monthly Notices of the Royal Astronomical Society, 2002, 336, 527-540.	4.4	123
12	Confronting theoretical models with the observed evolution of the galaxy population out to z= 4. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2904-2916.	4.4	113
13	Hydrodynamical simulations of the Sunyaev-Zel'dovich effect: cluster scaling relations and X-ray properties. Monthly Notices of the Royal Astronomical Society, 2004, 348, 1401-1408.	4.4	110
14	Cosmological simulations of the intracluster medium. Monthly Notices of the Royal Astronomical Society, 2004, 355, 1091-1104.	4.4	105
15	Hydrodynamic simulations of merging clusters of galaxies. Monthly Notices of the Royal Astronomical Society, 2002, 329, 675-688.	4.4	97
16	Hydrodynamical simulations of the Sunyaev-Zel'dovich effect. Monthly Notices of the Royal Astronomical Society, 2000, 317, 37-44.	4.4	92
17	Modelling element abundances in semi-analytic models of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3500-3520.	4.4	87
18	Sussing Merger Trees: The Merger Trees Comparison Project. Monthly Notices of the Royal Astronomical Society, 2013, 436, 150-162.	4.4	80

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19	Monte Carlo Markov Chain parameter estimation in semi-analytic models of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2009, 396, 535-547.	4.4	76
20	Sunyaev-Zelâ€™dovich clusters in Millennium gas simulations. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1999-2023.	4.4	70
21	Galaxy formation in the Planck cosmology â€“ IV. Mass and environmental quenching, conformity and clustering. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2626-2645.	4.4	65
22	The merger history of clusters and its effect on the X-ray properties of the intracluster medium. Monthly Notices of the Royal Astronomical Society, 2004, 352, 508-522.	4.4	64
23	L-GALAXIES 2020: Spatially resolved cold gas phases, star formation, and chemical enrichment in galactic discs. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5795-5814.	4.4	62
24	Detailed dust modelling in the L-Galaxies semi-analytic model of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4072-4089.	4.4	61
25	First Light And Reionization Epoch Simulations (FLARES) â€“ I. Environmental dependence of high-redshift galaxy evolution. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2127-2145.	4.4	59
26	nIFTy cosmology: comparison of galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2015, 451, 4029-4059.	4.4	55
27	Tidal disruption of satellite galaxies in a semi-analytic model of galaxy formation. Monthly Notices of the Royal Astronomical Society, 0, 403, 768-779.	4.4	54
28	The Impact of Cooling and Preheating on the Sunyaev-Zeldovich Effect. Astrophysical Journal, 2001, 561, L15-L18.	4.5	52
29	The Lyman-continuum photon production efficiency in the high-redshift Universe. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 458, L6-L9.	3.3	49
30	Cosmological simulations of galaxy clusters with feedback from active galactic nuclei: profiles and scaling relations. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1774-1796.	4.4	48
31	First Light And Reionisation Epoch Simulations (FLARES) II: The Photometric Properties of High-Redshift Galaxies. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	46
32	Galaxy and Mass Assembly (GAMA): halo formation times and halo assembly bias on the cosmic web. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3720-3741.	4.4	44
33	The impact of galaxy formation on X-ray groups. Monthly Notices of the Royal Astronomical Society, 2003, 343, 608-618.	4.4	42
34	Characterising and identifying galaxy protoclusters. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4612-4628.	4.4	40
35	Impact of baryons on the cluster mass function and cosmological parameter determination. Monthly Notices of the Royal Astronomical Society, 2014, 439, 2485-2493.	4.4	38
36	Hydrodynamical simulations of the Sunyaev-Zel'dovich effect: the kinetic effect. Monthly Notices of the Royal Astronomical Society, 2001, 326, 155-163.	4.4	37

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37	Baryon fractions in clusters of galaxies: evidence against a pre-heating model for entropy generation. Monthly Notices of the Royal Astronomical Society, 2011, 413, 691-704.	4.4	37
38	SUSSING MERGER TREES: the influence of the halo finder. Monthly Notices of the Royal Astronomical Society, 2014, 441, 3488-3501.	4.4	36
39	<scp>L-GALAXIES</scp> 2020: The evolution of radial metallicity profiles and global metallicities in disc galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4474-4495.	4.4	33
40	Can simulations reproduce the observed temperaturemass relation for clusters of galaxies?. Monthly Notices of the Royal Astronomical Society, 2002, 330, L48-L52.	4.4	32
41	The effect of dwarf galaxy disruption in semi-analytic models. Monthly Notices of the Royal Astronomical Society, 2007, 383, 1649-1654.	4.4	32
42	Iron in galaxy groups and clusters: confronting galaxy evolution models with a newly homogenized data set. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3169-3193.	4.4	30
43	Dust-obscured star-forming galaxies in the early universe. Monthly Notices of the Royal Astronomical Society, 2018, 473, 5363-5369.	4.4	30
44	Galaxy formation in the Planck cosmology â€“ III. The high-redshift universe. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2692-2702.	4.4	28
45	Learning the relationship between galaxies spectra and their star formation histories using convolutional neural networks and cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5503-5520.	4.4	28
46	The power spectrum amplitude from clusters revisited: Â8 using simulations with pre-heating and cooling. Monthly Notices of the Royal Astronomical Society, 2003, 346, 319-326.	4.4	27
47	TheXMMCluster Survey: evidence for energy injection at high redshift from evolution of the X-ray luminosity-temperature relation. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2086-2096.	4.4	27
48	Evolution of Xâ€Ray Cluster Scaling Relations in Simulations with Radiative Cooling and Nongravitational Heating. Astrophysical Journal, 2006, 649, 640-648.	4.5	25
49	nIFTy cosmology: the clustering consistency of galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2017, 469, 749-762.	4.4	24
50	Nebular-line emission during the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2020, 493, 6079-6094.	4.4	24
51	Sussing merger trees: the impact of halo merger trees on galaxy properties in a semi-analytic model. Monthly Notices of the Royal Astronomical Society, 2014, 445, 4197-4210.	4.4	23
52	Cosmic CARNage I: on the calibration of galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2936-2954.	4.4	23
53	The alignment of clusters using large-scale simulations. Monthly Notices of the Royal Astronomical Society, 2000, 319, 614-618.	4.4	21
54	First Light And Reionisation Epoch Simulations (<scp>flares</scp>) â€“ IV. The size evolution of galaxies at zÂâ‰¥Â5. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1921-1939.	4.4	21

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55	A machine learning approach to mapping baryons on to dark matter haloes using the <scp>eagle</scp> and <scp>C-EAGLE</scp> simulations. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5046-5061.	4.4	20
56	The Sunyaevâ€“Zel'dovich temperature of the intracluster medium. Monthly Notices of the Royal Astronomical Society, 2008, 386, 2110-2114.	4.4	19
57	First Light And Reionisation Epoch Simulations (FLARES) â€“ III. The properties of massive dusty galaxies at cosmic dawn. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4999-5017.	4.4	19
58	In-shock cooling in numerical simulations. Monthly Notices of the Royal Astronomical Society, 2002, 319, 721-727.	4.4	18
59	The alignment of clusters using large-scale simulations. Monthly Notices of the Royal Astronomical Society, 2000, 319, 614-618.	4.4	17
60	Morphological evolution and galactic sizes in the L-Galaxies SA model. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	16
61	Genus statistics of the Virgo N-body simulations and the 1.2-Jy redshift survey. Monthly Notices of the Royal Astronomical Society, 1998, 298, 1169-1188.	4.4	14
62	Sussing merger trees: stability and convergence. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1554-1568.	4.4	14
63	Cosmic CARNage II: the evolution of the galaxy stellar mass function in observations and galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1197-1210.	4.4	14
64	Simulated X-ray cluster temperature maps. Monthly Notices of the Royal Astronomical Society, 2003, 341, 1246-1252.	4.4	12
65	Spatial distribution and dynamics of the galactic globular cluster system. Monthly Notices of the Royal Astronomical Society, 1989, 238, 1319-1343.	4.4	10
66	On the population of primordial star clusters in the presence of ultraviolet background radiation. Monthly Notices of the Royal Astronomical Society, 2006, 368, 1301-1310.	4.4	8
67	TheXMMCluster Survey: evolution of the velocity dispersionâ€“temperature relation over half a Hubble time. Monthly Notices of the Royal Astronomical Society, 2016, 463, 413-428.	4.4	7
68	Towards a consistent model for both the Hâ€‰i and stellar mass functions of galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1981-1990.	4.4	7
69	MEGA: Merger graphs of structure formation. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4509-4524.	4.4	7
70	Using angular momentum maps to detect kinematically distinct galactic components. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2182-2197.	4.4	4
71	Exploring the effect of baryons on the radial distribution of satellite galaxies with GAMA and IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4676-4695.	4.4	2
72	The Millennium Gas Project. , 2009, , .		0