

# Adam B Mantz

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

6,840  
citations

61984

43  
h-index

62596

80  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3676  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmological Parameters from Observations of Galaxy Clusters. Annual Review of Astronomy and Astrophysics, 2011, 49, 409-470.	24.3	809
2	GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, Supplement Series, 2015, 216, 27.	7.7	464
3	Baryons at the Edge of the X-ray "Brightest Galaxy Cluster. Science, 2011, 331, 1576-1579.	12.6	231
4	Weighing the giants " IV. Cosmology and neutrino mass. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2205-2225.	4.4	213
5	Cluster Cosmology Constraints from the 2500 deg <sup>2</sup> SPT-SZ Survey: Inclusion of Weak Gravitational Lensing Data from Magellan and the Hubble Space Telescope. Astrophysical Journal, 2019, 878, 55.	4.5	211
6	COSMOLOGICAL CONSTRAINTS FROM SUNYAEV " ZEL'DOVICH-SELECTED CLUSTERS WITH X-RAY OBSERVATIONS IN THE FIRST 178 " OF THE SOUTH POLE TELESCOPE SURVEY. Astrophysical Journal, 2013, 763, 147.	4.5	206
7	Weighing the Giants " III. Methods and measurements of accurate galaxy cluster weak-lensing masses. Monthly Notices of the Royal Astronomical Society, 2014, 439, 48-72.	4.4	205
8	Weighing the Giants " I. Weak-lensing masses for 51 " massive galaxy clusters: project overview, data analysis methods and cluster images. Monthly Notices of the Royal Astronomical Society, 2014, 439, 2-27.	4.4	201
9	Robust weak-lensing mass calibration of Planck galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1973-1978.	4.4	186
10	Cosmology and astrophysics from relaxed galaxy clusters " II. Cosmological constraints. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2077-2098.	4.4	181
11	The X-ray brightest clusters of galaxies from the Massive Cluster Survey. Monthly Notices of the Royal Astronomical Society, 2010, 407, 83-93.	4.4	179
12	COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, 2016, 832, 95.	4.5	179
13	The observed growth of massive galaxy clusters - I. Statistical methods and cosmological constraints. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	4.4	156
14	New constraints on dark energy from the observed growth of the most X-ray luminous galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1179-1192.	4.4	150
15	THE GROWTH OF COOL CORES AND EVOLUTION OF COOLING PROPERTIES IN A SAMPLE OF 83 GALAXY CLUSTERS AT 0.3 <math>z</math> <math>< i>< /i>< /math> 1.2 SELECTED FROM THE SPT-SZ SURVEY. Astrophysical Journal, 2013, 774, 23.	4.5	144
16	Dark Energy Survey Year 1 Results: Cosmological constraints from cluster abundances and weak lensing. Physical Review D, 2020, 102, .	4.7	140
17	The observed growth of massive galaxy clusters - II. X-ray scaling relations. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	4.4	120
18	Weighing the giants " V. Galaxy cluster scaling relations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3582-3603.	4.4	110

#	ARTICLE	IF	CITATIONS
19	New constraints on $f$ ( $R$ ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 737 Td. ( $f$ )	4.5	106
20	The Remarkable Similarity of Massive Galaxy Clusters from $z \sim 0.1$ to $z \sim 1.9$ . <i>Astrophysical Journal</i> , 2017, 843, 28.	4.5	106
21	OPTICAL SPECTROSCOPY AND VELOCITY DISPERSIONS OF GALAXY CLUSTERS FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2014, 792, 45.	4.5	103
22	THE REDSHIFT EVOLUTION OF THE MEAN TEMPERATURE, PRESSURE, AND ENTROPY PROFILES IN 80 SPT-SELECTED GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2014, 794, 67.	4.5	90
23	SUNYAEV-ZEL'DOVICH-MEASURED PRESSURE PROFILES FROM THE BOLOCAM X-RAY/SZ GALAXY CLUSTER SAMPLE. <i>Astrophysical Journal</i> , 2013, 768, 177.	4.5	88
24	Cosmology and astrophysics from relaxed galaxy clusters â€“ I. Sample selection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 199-219.	4.4	86
25	Azimuthally resolved X-ray spectroscopy to the edge of the Perseus Cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 3939-3961.	4.4	82
26	Methods for cluster cosmology and application to the SDSS in preparation for DES Year 1 release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 4779-4800.	4.4	82
27	Cluster mass calibration at high redshift: HST weak lensing analysis of 13 distant galaxy clusters from the South Pole Telescope Sunyaevâ€“Zel'dovich Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2635-2678.	4.4	77
28	Cosmology and astrophysics from relaxed galaxy clusters â€“ IV. Robustly calibrating hydrostatic masses with weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1522-1534.	4.4	74
29	Weighing the Giants â€“ II. Improved calibration of photometry from stellar colours and accurate photometric redshifts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 28-47.	4.4	71
30	A MEASUREMENT OF THE KINETIC SUNYAEV-ZEL'DOVICH SIGNAL TOWARD MACS J0717.5+3745. <i>Astrophysical Journal</i> , 2013, 778, 52.	4.5	70
31	THERMODYNAMICS OF THE COMA CLUSTER OUTSKIRTS. <i>Astrophysical Journal</i> , 2013, 775, 4.	4.5	68
32	LARGE-SCALE MOTIONS IN THE PERSEUS GALAXY CLUSTER. <i>Astrophysical Journal</i> , 2012, 757, 182.	4.5	64
33	DEEP CHANDRA, HST-COS, AND MEGACAM OBSERVATIONS OF THE PHOENIX CLUSTER: EXTREME STAR FORMATION AND AGN FEEDBACK ON HUNDRED KILOPARSEC SCALES. <i>Astrophysical Journal</i> , 2015, 811, 111.	4.5	64
34	A uniform metallicity in the outskirts of massive, nearby galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4583-4599.	4.4	64
35	Witnessing the growth of the nearest galaxy cluster: thermodynamics of the Virgo Cluster outskirts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1476-1495.	4.4	61
36	Sunyaevâ€“Zel'dovich effect and X-ray scaling relations from weak lensing mass calibration of 32 South Pole Telescope selected galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2871-2906.	4.4	60

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37	Cosmology and astrophysics from relaxed galaxy clusters – III. Thermodynamic profiles and scaling relations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 4020-4039.	4.4	59
38	SPT-CL J0205+5829: A $z = 1.32$ EVOLVED MASSIVE GALAXY CLUSTER IN THE SOUTH POLE TELESCOPE SUNYAEV-ZEL'DOVICH EFFECT SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 93.	4.5	54
39	Constraints on the CMB temperature evolution using multiband measurements of the Sunyaev-Zel'dovich effect with the South Pole Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2610-2615.	4.4	51
40	The Massive and Distant Clusters of <i>WISE</i> Survey. I. Survey Overview and a Catalog of $>2000$ Galaxy Clusters at $z < 1$ . <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 33.	7.7	50
41	GALAXY CLUSTER SCALING RELATIONS BETWEEN BOLOCAM SUNYAEV-ZEL'DOVICH EFFECT AND <i>CHANDRA</i> X-RAY MEASUREMENTS. <i>Astrophysical Journal</i> , 2015, 806, 18.	4.5	48
42	Modelling projection effects in optically selected cluster catalogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 490-505.	4.4	48
43	The metallicity of the intracluster medium over cosmic time: further evidence for early enrichment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2877-2888.	4.4	46
44	Galaxy populations in the most distant SPT-SZ clusters. <i>Astronomy and Astrophysics</i> , 2019, 622, A117.	5.1	45
45	Dark Energy Surveyed Year 1 results: calibration of cluster mis-centring in the redMaPPer catalogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 2578-2593.	4.4	44
46	WEAK-LENSING MASS MEASUREMENTS OF FIVE GALAXY CLUSTERS IN THE SOUTH POLE TELESCOPE SURVEY USING MAGELLAN/MEGACAM. <i>Astrophysical Journal</i> , 2012, 758, 68.	4.5	42
47	SPT-CL J2040+4451: AN SZ-SELECTED GALAXY CLUSTER AT $z = 1.478$ WITH SIGNIFICANT ONGOING STAR FORMATION. <i>Astrophysical Journal</i> , 2014, 794, 12.	4.5	42
48	X-ray bright active galactic nuclei in massive galaxy clusters – II. The fraction of galaxies hosting active nuclei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 1942-1949.	4.4	40
49	X-ray bright active galactic nuclei in massive galaxy clusters – I. Number counts and spatial distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 3509-3525.	4.4	38
50	Constraints on modified gravity from the observed X-ray luminosity function of galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 699-704.	4.4	36
51	SPT-GMOS: A GEMINI/GMOS-SOUTH SPECTROSCOPIC SURVEY OF GALAXY CLUSTERS IN THE SPT-SZ SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 3.	7.7	36
52	A combined measurement of cosmic growth and expansion from clusters of galaxies, the CMB and galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 973-985.	4.4	35
53	THE XXL SURVEY. V. DETECTION OF THE SUNYAEV-ZEL'DOVICH EFFECT OF THE REDSHIFT 1.9 GALAXY CLUSTER XLSSU J021744.1+034536 WITH CARMA. <i>Astrophysical Journal</i> , 2014, 794, 157.	4.5	35
54	A COMPARISON AND JOINT ANALYSIS OF SUNYAEV-ZEL'DOVICH EFFECT MEASUREMENTS FROM PLANCK AND BOLOCAM FOR A SET OF 47 MASSIVE GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2016, 832, 26.	4.5	35

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55	The observed growth of massive galaxy clusters - III. Testing general relativity on cosmological scales. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	4.4	34
56	The XXL Survey. Astronomy and Astrophysics, 2018, 620, A2.	5.1	34
57	THE MASSIVE AND DISTANT CLUSTERS OF WISE SURVEY. III. SUNYAEV-ZEL'DOVICH MASSES OF GALAXY CLUSTERS AT $z \approx 1$ . Astrophysical Journal, 2015, 806, 26.	4.5	33
58	CARMA MEASUREMENTS OF THE SUNYAEV-ZEL'DOVICH EFFECT IN RX J1347.5-1145. Astrophysical Journal, 2013, 770, 112.	4.5	28
59	Constraints on the Thermal Contents of the X-Ray Cavities of Cluster MS 0735.6+7421 with Sunyaev-Zel'dovich Effect Observations. Astrophysical Journal, 2019, 871, 195.	4.5	28
60	X-ray bright active galactic nuclei in massive galaxy clusters - III. New insights into the triggering mechanisms of cluster AGN. Monthly Notices of the Royal Astronomical Society, 2014, 446, 2709-2729.	4.4	27
61	Spectroscopic confirmation of a mature galaxy cluster at a redshift of 2. Nature, 2020, 577, 39-41.	27.8	27
62	The prospects for constraining dark energy with future X-ray cluster gas mass fraction measurements. Monthly Notices of the Royal Astronomical Society, 2008, 388, 1265-1278.	4.4	26
63	THE CONTRIBUTION OF RADIO GALAXY CONTAMINATION TO MEASUREMENTS OF THE SUNYAEV-ZEL'DOVICH DECREMENT IN MASSIVE GALAXY CLUSTERS AT 140 GHz WITH BOLOCAM. Astrophysical Journal, 2013, 764, 152.	4.5	25
64	Cosmological constraints from gas mass fractions of massive, relaxed galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2021, 510, 131-145.	4.4	25
65	The observed growth of massive galaxy clusters - IV. Robust constraints on neutrino properties. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	4.4	24
66	Centre-excised X-ray luminosity as an efficient mass proxy for future galaxy cluster surveys. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3072-3079.	4.4	21
67	Cosmology and astrophysics from relaxed galaxy clusters - V. Consistency with cold dark matter structure formation. Monthly Notices of the Royal Astronomical Society, 2016, 462, 681-688.	4.4	18
68	Spectroscopic Confirmation of Five Galaxy Clusters at $z \geq 1.25$ in the 2500 deg <sup>2</sup> SPT-SZ Survey. Astrophysical Journal, 2019, 870, 7.	4.5	18
69	A Gibbs sampler for multivariate linear regression. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1279-1288.	4.4	17
70	Thermodynamic profiles of galaxy clusters from a joint X-ray/SZ analysis. Monthly Notices of the Royal Astronomical Society, 2018, 481, 749-792.	4.4	17
71	A series of shocks and edges in Abell 2219. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2896-2909.	4.4	16
72	Mass variance from archival X-ray properties of Dark Energy Survey Year-1 galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3341-3354.	4.4	15

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73	Cold dark energy constraints from the abundance of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3882-3894.	4.4	14
74	Coping with selection effects: a Primer on regression with truncated data. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4863-4872.	4.4	13
75	Ellipticity of brightest cluster galaxies as tracer of halo orientation and weak-lensing mass bias. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4889-4897.	4.4	12
76	Deep <i>XMM-Newton</i> observations of the most distant SPT-SZ galaxy cluster. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1554-1564.	4.4	12
77	Spectroscopic quantification of projection effects in the SDSS redMaPPer galaxy cluster catalogue. Monthly Notices of the Royal Astronomical Society, 2021, 505, 33-44.	4.4	12
78	Measuring $H_0$ using X-ray and SZ effect observations of dynamically relaxed galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1062-1076.	4.4	11
79	A Detailed Study of the Most Relaxed SPT-selected Galaxy Clusters: Properties of the Cool Core and Central Galaxy. Astrophysical Journal, 2019, 870, 85.	4.5	10
80	Quiescent galaxies in a virialized cluster at redshift 2: evidence for accelerated size growth. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5272-5280.	4.4	8
81	A Multiwavelength Study of the Cool Core Cluster MACS J1447.4+0827. Astronomical Journal, 2020, 160, 103.	4.7	8
82	The environmental dependence of X-ray AGN activity at $z \approx 0.4$ . Monthly Notices of the Royal Astronomical Society, 2020, 498, 4095-4108.	4.4	7
83	JOINT ANALYSIS OF X-RAY AND SUNYAEV-ZEL'DOVICH OBSERVATIONS OF GALAXY CLUSTERS USING AN ANALYTIC MODEL OF THE INTRACLUSTER MEDIUM. Astrophysical Journal, 2012, 748, 113.	4.5	7
84	The history of metal enrichment traced by X-ray observations of high-redshift galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5195-5204.	4.4	6
85	Measurement of the Relativistic Sunyaev-Zeldovich Correction in RX J1347.5-1145. Astrophysical Journal, 2022, 932, 55.	4.5	2
86	Constraining gravity at large scales with X-ray galaxy cluster studies. EAS Publications Series, 2009, 36, 149-151.	0.3	0
87	TESTING GRAVITY AT COSMIC SCALES WITH CLUSTERS OF GALAXIES, THE CMB AND GALAXY CLUSTERING. , 2015, , .		0