

# Scott Randall

## List of Publications by Year in descending order

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63  
papers

5,180  
citations

159585

30  
h-index

123424

61  
g-index

63  
all docs

63  
docs citations

63  
times ranked

7910  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Direct Empirical Proof of the Existence of Dark Matter. <i>Astrophysical Journal</i> , 2006, 648, L109-L113.	4.5	1,440
2	DETECTION OF AN UNIDENTIFIED EMISSION LINE IN THE STACKED X-RAY SPECTRUM OF GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2014, 789, 13.	4.5	575
3	Constraints on the Self-Interaction Cross Section of Dark Matter from Numerical Simulations of the Merging Galaxy Cluster 1E 0657 $\hat{a}$ <sup>56</sup> . <i>Astrophysical Journal</i> , 2008, 679, 1173-1180.	4.5	552
4	Strong and Weak Lensing United. III. Measuring the Mass Distribution of the Merging Galaxy Cluster 1E 0657 $\hat{a}$ <sup>58</sup> . <i>Astrophysical Journal</i> , 2006, 652, 937-947.	4.5	254
5	SHOCKS AND CAVITIES FROM MULTIPLE OUTBURSTS IN THE GALAXY GROUP NGC 5813: A WINDOW TO ACTIVE GALACTIC NUCLEUS FEEDBACK. <i>Astrophysical Journal</i> , 2011, 726, 86.	4.5	142
6	THE DISSECTION OF ABELL 2744: A RICH CLUSTER GROWING THROUGH MAJOR AND MINOR MERGERS. <i>Astrophysical Journal</i> , 2011, 728, 27.	4.5	142
7	Self-similar scaling and evolution in the galaxy cluster X-ray luminosity-temperature relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1583-1602.	4.4	137
8	A VERY DEEP <i>CHANDRA</i> OBSERVATION OF A2052: BUBBLES, SHOCKS, AND SLOSHING. <i>Astrophysical Journal</i> , 2011, 737, 99.	4.5	117
9	SHOCKING TAILS IN THE MAJOR MERGER ABELL 2744. <i>Astrophysical Journal Letters</i> , 2012, 750, L23.	8.3	105
10	A VERY DEEP <i>CHANDRA</i> OBSERVATION OF THE GALAXY GROUP NGC 5813: AGN SHOCKS, FEEDBACK, AND OUTBURST HISTORY. <i>Astrophysical Journal</i> , 2015, 805, 112.	4.5	101
11	The Effect of Merger Boosts on the Luminosity, Temperature, and Inferred Mass Functions of Clusters of Galaxies. <i>Astrophysical Journal</i> , 2002, 577, 579-594.	4.5	100
12	Low-Mass X-ray Binaries and Globular Clusters in Early-Type Galaxies. <i>Astrophysical Journal</i> , 2003, 595, 743-759.	4.5	97
13	A Galaxy-scale Fountain of Cold Molecular Gas Pumped by a Black Hole. <i>Astrophysical Journal</i> , 2018, 865, 13.	4.5	85
14	X-Ray Morphological Analysis of the Planck ESZ Clusters. <i>Astrophysical Journal</i> , 2017, 846, 51.	4.5	82
15	STRIPPED ELLIPTICAL GALAXIES AS PROBES OF ICM PHYSICS. I. TAILS, WAKES, AND FLOW PATTERNS IN AND AROUND STRIPPED ELLIPTICALS. <i>Astrophysical Journal</i> , 2015, 806, 103.	4.5	57
16	SHOCKS AND BUBBLES IN A DEEP <i>CHANDRA</i> OBSERVATION OF THE COOLING FLOW CLUSTER ABELL 2052. <i>Astrophysical Journal</i> , 2009, 697, L95-L98.	4.5	54
17	DEEP <i>CHANDRA</i> OBSERVATIONS OF THE EXTENDED GAS SLOSHING SPIRAL IN A2029. <i>Astrophysical Journal</i> , 2013, 773, 114.	4.5	54
18	STRIPPED ELLIPTICAL GALAXIES AS PROBES OF ICM PHYSICS. II. STIRRED, BUT MIXED? VISCOUS AND INVISCID GAS STRIPPING OF THE VIRGO ELLIPTICAL M89. <i>Astrophysical Journal</i> , 2015, 806, 104.	4.5	53

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19	Chandra Observation of Diffuse Gas and Low-Mass X-Ray Binaries in the Elliptical Galaxy NGC 4649 (M60). <i>Astrophysical Journal</i> , 2004, 600, 729-742.	4.5	50
20	DEEP CHANDRA OBSERVATIONS OF NGC 1404: CLUSTER PLASMA PHYSICS REVEALED BY AN INFALLING EARLY-TYPE GALAXY. <i>Astrophysical Journal</i> , 2017, 834, 74.	4.5	48
21	DEEP CHANDRA OBSERVATIONS OF EDGES AND BUBBLES IN THE NGC 5846 GALAXY GROUP. <i>Astrophysical Journal</i> , 2011, 743, 15.	4.5	46
22	Chandra and JVA Observations of HST Frontier Fields Cluster MACS J0717.5+3745. <i>Astrophysical Journal</i> , 2017, 835, 197.	4.5	46
23	FRONTIER FIELDS CLUSTERS: CHANDRA AND JVA VIEW OF THE PRE-MERGING CLUSTER MACS J0416.1-2403. <i>Astrophysical Journal</i> , 2015, 812, 153.	4.5	44
24	The Impact of Galaxy Cluster Mergers on Cosmological Parameter Estimation from Surveys of the Sunyaev-Zeldovich Effect. <i>Astrophysical Journal</i> , 2008, 680, 17-31.	4.5	43
25	VLA Radio Observations of the HST Frontier Fields Cluster Abell 2744: The Discovery of New Radio Relics. <i>Astrophysical Journal</i> , 2017, 845, 81.	4.5	41
26	X-Ray Scaling Relations for a Representative Sample of Planck-selected Clusters Observed with XMM-Newton. <i>Astrophysical Journal</i> , 2020, 892, 102.	4.5	41
27	PROBING THE OUTSKIRTS OF THE EARLY-STAGE GALAXY CLUSTER MERGER A1750. <i>Astrophysical Journal</i> , 2016, 818, 131.	4.5	37
28	RADIAL PROFILE OF THE 3.5 keV LINE OUT TO $R_{200}$ IN THE PERSEUS CLUSTER. <i>Astrophysical Journal</i> , 2016, 829, 124.	4.5	37
29	GAS SLOSHING AND BUBBLES IN THE GALAXY GROUP NGC 5098. <i>Astrophysical Journal</i> , 2009, 700, 1404-1414.	4.5	34
30	Gas Sloshing Regulates and Records the Evolution of the Fornax Cluster. <i>Astrophysical Journal</i> , 2017, 851, 69.	4.5	34
31	RADIO AND DEEP CHANDRA OBSERVATIONS OF THE DISTURBED COOL CORE CLUSTER ABELL 133. <i>Astrophysical Journal</i> , 2010, 722, 825-846.	4.5	30
32	MERGING COLD FRONTS IN THE GALAXY PAIR NGC 7619 AND NGC 7626. <i>Astrophysical Journal</i> , 2009, 696, 1431-1440.	4.5	28
33	SEARCHING FOR THE 3.5 keV LINE IN THE STACKED SUZAKU OBSERVATIONS OF GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2016, 831, 55.	4.5	28
34	Chandra and XMM-Newton Observations of the Abell 3395/Abell 3391 Intercluster Filament. <i>Astrophysical Journal</i> , 2018, 858, 44.	4.5	27
35	Active galactic nucleus feedback in clusters of galaxies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7174-7178.	7.1	26
36	THE MERGER ENVIRONMENT OF THE WIDE ANGLE TAIL HOSTING CLUSTER A562. <i>Astrophysical Journal</i> , 2011, 743, 199.	4.5	26

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37	Stripped Elliptical Galaxies as Probes of ICM Physics. III. Deep Chandra Observations of NGC 4552: Measuring the Viscosity of the Intracluster Medium. <i>Astrophysical Journal</i> , 2017, 848, 27.	4.5	25
38	XMM-Newton Observation of Diffuse Gas and Low-Mass X-Ray Binaries in the Elliptical Galaxy NGC 4649 (M60). <i>Astrophysical Journal</i> , 2006, 636, 200-213.	4.5	24
39	Buoyant AGN Bubbles in the Quasi-isothermal Potential of NGC 1399. <i>Astrophysical Journal</i> , 2017, 847, 94.	4.5	23
40	Uplift, Feedback, and Buoyancy: Radio Lobe Dynamics in NGC 4472. <i>Astrophysical Journal</i> , 2017, 848, 26.	4.5	22
41	THE MYSTERIOUS MERGER OF NGC 6868 AND NGC 6861 IN THE TELESCOPIUM GROUP. <i>Astrophysical Journal</i> , 2010, 711, 1316-1332.	4.5	21
42	CHANDRA AND ROSAT OBSERVATIONS OF A194: DETECTION OF AN X-RAY CAVITY AND MAPPING THE DYNAMICS OF THE CLUSTER. <i>Astrophysical Journal</i> , 2011, 743, 59.	4.5	20
43	The Megaparsec-scale Gas-sloshing Spiral in the Remnant Cool Core Cluster Abell 1763. <i>Astrophysical Journal</i> , 2018, 868, 121.	4.5	19
44	An ALMA+ACA measurement of the shock in the Bullet Cluster. <i>Astronomy and Astrophysics</i> , 2019, 628, A100.	5.1	19
45	CAPTURING THE 3D MOTION OF AN INFALLING GALAXY VIA FLUID DYNAMICS. <i>Astrophysical Journal</i> , 2017, 835, 19.	4.5	18
46	CHANDRA VIEW OF THE ULTRA-STEEP SPECTRUM RADIO SOURCE IN A2443: MERGER SHOCK-INDUCED COMPRESSION OF FOSSIL RADIO PLASMA?. <i>Astrophysical Journal</i> , 2013, 772, 84.	4.5	17
47	THE DISCOVERY OF LENSED RADIO AND X-RAY SOURCES BEHIND THE FRONTIER FIELDS CLUSTER MACSJ0717.5+3745 WITH THE JVLA AND CHANDRA. <i>Astrophysical Journal</i> , 2016, 817, 98.	4.5	17
48	Extended X-Ray Study of M49: The Frontier of the Virgo Cluster. <i>Astronomical Journal</i> , 2019, 158, 6.	4.7	17
49	GAS SLOSHING AND RADIO GALAXY DYNAMICS IN THE CORE OF THE 3C 449 GROUP. <i>Astrophysical Journal</i> , 2013, 764, 83.	4.5	15
50	YOUNG AGN OUTBURST RUNNING OVER OLDER X-RAY CAVITIES. <i>Astrophysical Journal Letters</i> , 2014, 782, L19.	8.3	15
51	The Deepest Chandra View of RBS 797: Evidence for Two Pairs of Equidistant X-ray Cavities. <i>Astrophysical Journal Letters</i> , 2021, 923, L25.	8.3	15
52	Hubble Space Telescope Imaging of the Ultra-compact High Velocity Cloud AGC 226067: A Stripped Remnant in the Virgo Cluster. <i>Astrophysical Journal</i> , 2017, 843, 134.	4.5	14
53	CHANDRA OBSERVATIONS OF NGC 4342, AN OPTICALLY FAINT, X-RAY GAS-RICH EARLY-TYPE GALAXY. <i>Astrophysical Journal</i> , 2012, 755, 25.	4.5	13
54	Evidence for a Merger-induced Shock Wave in ZwCl 0008.8+5215 with Chandra and Suzaku. <i>Astrophysical Journal</i> , 2019, 873, 64.	4.5	13

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55	MERGER HYDRODYNAMICS OF THE LUMINOUS CLUSTER RX J1347.5â€“1145. <i>Astrophysical Journal</i> , 2016, 830, 39.	4.5	11
56	MULTI-WAVELENGTH OBSERVATIONS OF THE DISSOCIATIVE MERGER IN THE GALAXY CLUSTER CIZA J0107.7+5408. <i>Astrophysical Journal</i> , 2016, 823, 94.	4.5	9
57	MERGER SIGNATURES IN THE GALAXY CLUSTER A98. <i>Astrophysical Journal</i> , 2014, 791, 104.	4.5	8
58	Joint <i>Suzaku</i> and <i>Chandra</i> observations of the MKW4 galaxy group out to the virial radius. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3767-3780.	4.4	7
59	RESOLVING THE MERGING <i>PLANCK</i> CLUSTER PLCK G147.3-16.6 WITH GISMO. <i>Astrophysical Journal Letters</i> , 2015, 808, L6.	8.3	3
60	Unraveling AGN feedback and ICM physics with deep Chandra X-ray observations of the galaxy group NGC 5813. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 277-282.	0.0	1
61	Extragalactic jets as probes of distant clusters of galaxies and the clusters occupied by bent radio AGN (COBRA) survey. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 315-320.	0.0	1
62	Hot Gas and AGN Feedback in Galaxies and Nearby Groups. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 257-260.	0.0	0
63	Characterizing the Outburst of the Supermassive Black Hole in M87. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 112-117.	0.0	0