

Benjamin D Oppenheimer

List of Publications by Year in descending order

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84
papers

7,830
citations

47006

47
h-index

58581

82
g-index

84
all docs

84
docs citations

84
times ranked

3490
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmological simulations of intergalactic medium enrichment from galactic outflows. Monthly Notices of the Royal Astronomical Society, 2006, 373, 1265-1292.	4.4	511
2	THE COS-HALOS SURVEY: PHYSICAL CONDITIONS AND BARYONIC MASS IN THE LOW-REDSHIFT CIRCUMGALACTIC MEDIUM. Astrophysical Journal, 2014, 792, 8.	4.5	464
3	The Large, Oxygen-Rich Halos of Star-Forming Galaxies Are a Major Reservoir of Galactic Metals. Science, 2011, 334, 948-952.	12.6	442
4	Mass, metal, and energy feedback in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2008, 387, 577-600.	4.4	431
5	Feedback and recycled wind accretion: assembling the $z=0$ galaxy mass function. Monthly Notices of the Royal Astronomical Society, 2010, 406, 2325-2338.	4.4	410
6	Galaxy evolution in cosmological simulations with outflows - II. Metallicities and gas fractions. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1354-1376.	4.4	335
7	Galaxy evolution in cosmological simulations with outflows - I. Stellar masses and star formation rates. Monthly Notices of the Royal Astronomical Society, 2011, 415, 11-31.	4.4	297
8	THE COS-HALOS SURVEY: RATIONALE, DESIGN, AND A CENSUS OF CIRCUMGALACTIC NEUTRAL HYDROGEN. Astrophysical Journal, 2013, 777, 59.	4.5	285
9	An analytic model for the evolution of the stellar, gas and metal content of galaxies. Monthly Notices of the Royal Astronomical Society, 2011, , no-no.	4.4	279
10	A BUDGET AND ACCOUNTING OF METALS AT $z \approx 0$: RESULTS FROM THE COS-HALOS SURVEY. Astrophysical Journal, 2014, 786, 54.	4.5	256
11	THE COS-DWARFS SURVEY: THE CARBON RESERVOIR AROUND SUB-L* GALAXIES. Astrophysical Journal, 2014, 796, 136.	4.5	196
12	The neutral hydrogen content of galaxies in cosmological hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2013, 434, 2645-2663.	4.4	164
13	Bimodality of low-redshift circumgalactic O^{VI} in non-equilibrium eagle zoom simulations. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2157-2179.	4.4	159
14	SHORT-LIVED STAR-FORMING GIANT CLUMPS IN COSMOLOGICAL SIMULATIONS OF $z \approx 2$ DISKS. Astrophysical Journal, 2012, 745, 11.	4.5	146
15	A fundamental problem in our understanding of low-mass galaxy evolution. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2797-2812.	4.4	139
16	Tracing inflows and outflows with absorption lines in circumgalactic gas. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1260-1281.	4.4	131
17	NOT DEAD YET: COOL CIRCUMGALACTIC GAS IN THE HALOS OF EARLY-TYPE GALAXIES. Astrophysical Journal Letters, 2012, 758, L41.	8.3	128
18	Non-equilibrium ionization and cooling of metal-enriched gas in the presence of a photoionization background. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1043-1062.	4.4	118

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19	The intergalactic medium over the last 10 billion years - I. Ly α absorption and physical conditions. Monthly Notices of the Royal Astronomical Society, 2010, 408, 2051-2070.	4.4	117
20	The nature and origin of low-redshift O α absorbers. Monthly Notices of the Royal Astronomical Society, 2009, 395, 1875-1904.	4.4	112
21	The intergalactic medium over the last 10 billion years - II. Metal-line absorption and physical conditions. Monthly Notices of the Royal Astronomical Society, 2012, 420, 829-859.	4.4	108
22	Hydrogen and metal line absorption around low-redshift galaxies in cosmological hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2013, 432, 89-112.	4.4	99
23	The quenching and morphological evolution of central galaxies is facilitated by the feedback-driven expulsion of circumgalactic gas. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4462-4480.	4.4	94
24	The nature of submillimetre galaxies in cosmological hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	89
25	THE PHOTON UNDERPRODUCTION CRISIS. Astrophysical Journal Letters, 2014, 789, L32.	8.3	89
26	Cosmic distribution of highly ionized metals and their physical conditions in the EAGLE simulations. Monthly Notices of the Royal Astronomical Society, 2016, 459, 310-332.	4.4	85
27	The enrichment history of baryons in the Universe. Monthly Notices of the Royal Astronomical Society, 2007, 374, 427-435.	4.4	82
28	Tracing the re-ionization-epoch intergalactic medium with metal absorption lines. Monthly Notices of the Royal Astronomical Society, 2009, 396, 729-758.	4.4	81
29	The effect of metal enrichment and galactic winds on galaxy formation in cosmological zoom simulations. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2929-2949.	4.4	77
30	NEARBY GALAXY FILAMENTS AND THE Ly α FOREST: CONFRONTING SIMULATIONS AND THE UV BACKGROUND WITH OBSERVATIONS. Astrophysical Journal, 2015, 814, 40.	4.5	77
31	The physical properties and detectability of reionization-epoch galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 370, 273-288.	4.4	76
32	Smoothly rising star formation histories during the reionization epoch. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	75
33	How is star formation quenched in massive galaxies?. Monthly Notices of the Royal Astronomical Society, 2010, 407, 749-771.	4.4	75
34	Flickering AGN can explain the strong circumgalactic O α observed by COS-Halos. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4740-4755.	4.4	72
35	Constraints on physical properties of $z \sim 6$ galaxies using cosmological hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1861-1878.	4.4	71
36	Quenching massive galaxies with on-the-fly feedback in cosmological hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2676-2695.	4.4	67

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37	The gas fractions of dark matter haloes hosting simulated $\sim 1/4 L_{\odot}$ galaxies are governed by the feedback history of their black holes. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3783-3793.	4.4	66
38	Baryon cycling in the low-redshift circumgalactic medium: a comparison of simulations to the COS-Halos survey. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1745-1763.	4.4	65
39	The multiphase circumgalactic medium traced by low metal ions in EAGLE zoom simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 835-859.	4.4	64
40	Enrichment and pre-heating in intragroup gas from galactic outflows. Monthly Notices of the Royal Astronomical Society, 2008, 391, 110-123.	4.4	62
41	TORQUE-LIMITED GROWTH OF MASSIVE BLACK HOLES IN GALAXIES ACROSS COSMIC TIME. Astrophysical Journal, 2015, 800, 127.	4.5	62
42	AGN proximity zone fossils and the delayed recombination of metal lines. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1063-1078.	4.4	58
43	COSMOLOGICAL ZOOM SIMULATIONS OF $z \approx 2$ GALAXIES: THE IMPACT OF GALACTIC OUTFLOWS. Astrophysical Journal, 2014, 782, 84.	4.5	55
44	Deviations from hydrostatic equilibrium in the circumgalactic medium: spinning hot haloes and accelerating flows. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2963-2975.	4.4	54
45	Reionization in Technicolor. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2628-2649.	4.4	51
46	Feedback from supermassive black holes transforms centrals into passive galaxies by ejecting circumgalactic gas. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2939-2952.	4.4	51
47	Testing subhalo abundance matching in cosmological smoothed particle hydrodynamics simulations. Monthly Notices of the Royal Astronomical Society, 2012, 423, 3458-3473.	4.4	47
48	Simulating Groups and the IntraGroup Medium: The Surprisingly Complex and Rich Middle Ground between Clusters and Galaxies. Universe, 2021, 7, 209.	2.5	46
49	The COS CGM Compendium. II. Metallicities of the Partial and Lyman Limit Systems at $z \approx 1$. Astrophysical Journal, 2019, 872, 81.	4.5	44
50	The late reionization of filaments. Monthly Notices of the Royal Astronomical Society, 2009, 400, 1049-1061.	4.4	42
51	The reionization of carbon. Monthly Notices of the Royal Astronomical Society, 2015, 447, 2526-2539.	4.4	40
52	The host haloes of O α absorbers in the reionization epoch. Monthly Notices of the Royal Astronomical Society, 2013, 436, 1818-1835.	4.4	37
53	The COS CGM Compendium. III. Metallicity and Physical Properties of the Cool Circumgalactic Medium at $z \approx 1$. Astrophysical Journal, 2019, 887, 5.	4.5	36
54	The COS CGM Compendium. I. Survey Design and Initial Results. Astrophysical Journal, 2018, 866, 33.	4.5	35

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55	EAGLE and Illustris-TNG Predictions for Resolved eROSITA X-Ray Observations of the Circumgalactic Medium around Normal Galaxies. <i>Astrophysical Journal Letters</i> , 2020, 893, L24.	8.3	35
56	The growth and enrichment of intragroup gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 4266-4290.	4.4	34
57	The abundance and physical properties of O ^{vii} and O ^{viii} X-ray absorption systems in the EAGLE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2947-2969.	4.4	33
58	The warm-hot circumgalactic medium around EAGLE-simulation galaxies and its detection prospects with X-ray and UV line absorption. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 574-598.	4.4	31
59	THE HIGH-ION CONTENT AND KINEMATICS OF LOW-REDSHIFT LYMAN LIMIT SYSTEMS. <i>Astrophysical Journal</i> , 2013, 778, 187.	4.5	30
60	The impact of environment and mergers on the H ⁱ content of galaxies in hydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 3981-3999.	4.4	28
61	Metals in the circumgalactic medium are out of ionization equilibrium due to fluctuating active galactic nuclei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1026-1044.	4.4	25
62	The minimum halo mass for star formation at $z \approx 8$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 1633-1639.	4.4	21
63	A SEARCH FOR OXYGEN IN THE LOW-DENSITY Ly α FOREST USING THE SLOAN DIGITAL SKY SURVEY. <i>Astrophysical Journal</i> , 2010, 716, 1084-1094.	4.5	19
64	An Analysis of AAVSO Observations of Z Camelopardalis. <i>Astronomical Journal</i> , 1998, 115, 1175-1189.	4.7	19
65	A Search for Substellar Companions around 15 Weak-Lined T Tauri Stars with the Planetary Camera 2 of the Hubble Space Telescope. <i>Astronomical Journal</i> , 2005, 129, 2294-2307.	4.7	18
66	The COS-AGN survey: revealing the nature of circumgalactic gas around hosts of active galactic nuclei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3890-3934.	4.4	18
67	Optical Spectropolarimetry of Asymptotic Giant Branch and Post-Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2006, 639, 1053-1068.	4.5	16
68	The Warm Circumgalactic Medium: $10^{5.6} K$ Gas Associated with a Single Galaxy Halo or with an Entire Group of Galaxies?. <i>Astrophysical Journal</i> , 2017, 838, 37.	4.5	16
69	The metallicity distribution of H ⁱ systems in the EAGLE cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4865-4871.	4.4	16
70	Aligned metal absorbers and the ultraviolet background at the end of reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4717-4727.	4.4	14
71	Probing the Metal Enrichment of the Intergalactic Medium at $z \approx 6$ Using the Hubble Space Telescope. <i>Astrophysical Journal Letters</i> , 2017, 849, L18.	8.3	13
72	The lensing properties of subhaloes in massive elliptical galaxies in sterile neutrino cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 1295-1310.	4.4	13

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73	The robustness of cosmological hydrodynamic simulation predictions to changes in numerics and cooling physics. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2021-2046.	4.4	12
74	The Ultraviolet Detection of Diffuse Gas in Galaxy Groups. Astrophysical Journal, Supplement Series, 2019, 240, 15.	7.7	11
75	Intergalactic dust extinction in hydrodynamic cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	9
76	Tentative detection of the circumgalactic medium of the isolated low-mass dwarf galaxy WLM. Monthly Notices of the Royal Astronomical Society, 2019, 490, 467-477.	4.4	9
77	The changing circumgalactic medium over the last 10 Gyr. I. Physical and dynamical properties. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1476-1490.	4.4	9
78	Scientific results from the MMT Natural Guide Star Adaptive Optics System. , 2004, , .		6
79	The impact of wind scalings on stellar growth and the baryon cycle in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1-28.	4.4	6
80	The COS CGM Compendium. IV. Effects of Varying Ionization Backgrounds on Metallicity Determinations in the $z < 1$ Circumgalactic Medium. Astronomical Journal, 2022, 164, 9.	4.7	6
81	The Mass-Metallicity Relation in Cosmological Hydrodynamic Simulations. EAS Publications Series, 2007, 24, 183-189.	0.3	4
82	The Flux Auto- and Cross-Correlation of the Ly α Forest. II. Modeling Anisotropies with Cosmological Hydrodynamic Simulations. Astrophysical Journal, 2008, 675, 946-959.	4.5	4
83	When Does the Intergalactic Medium Become Enriched?. EAS Publications Series, 2007, 24, 157-162.	0.3	3
84	The global oxygen yield budget followed in hydrodynamic simulations. Proceedings of the International Astronomical Union, 2015, 11, 180-181.	0.0	0