

# Bruce T Draine

## List of Publications by Citations

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25  
papers

481  
citations

13  
h-index

21  
g-index

29  
ext. papers

667  
ext. citations

4.9  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
25	THE SPATIALLY RESOLVED $[\text{C}\text{II}]$ COOLING LINE DEFICIT IN GALAXIES. <i>Astrophysical Journal</i> , <b>2017</b> , 834, 5	4.7	65
24	The Origins of $[\text{C}\text{II}]$ Emission in Local Star-forming Galaxies. <i>Astrophysical Journal</i> , <b>2017</b> , 845, 96	4.7	53
23	RADIATIVE TRANSFER MODEL OF DUST ATTENUATION CURVES IN CLUMPY, GALACTIC ENVIRONMENTS. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 201	4.7	50
22	Modeling the Anomalous Microwave Emission with Spinning Nanoparticles: No PAHs Required. <i>Astrophysical Journal</i> , <b>2017</b> , 836, 179	4.7	37
21	QUANTUM SUPPRESSION OF ALIGNMENT IN ULTRASMALL GRAINS: MICROWAVE EMISSION FROM SPINNING DUST WILL BE NEGLIGIBLY POLARIZED. <i>Astrophysical Journal</i> , <b>2016</b> , 831, 59	4.7	29
20	Thermal Pressure in the Cold Neutral Medium of Nearby Galaxies. <i>Astrophysical Journal</i> , <b>2017</b> , 835, 201	4.7	27
19	After the Fall: The Dust and Gas in E+A Post-starburst Galaxies. <i>Astrophysical Journal</i> , <b>2018</b> , 855, 51	4.7	27
18	Modeling Dust and Starlight in Galaxies Observed by Spitzer and Herschel: The KINGFISH Sample. <i>Astrophysical Journal</i> , <b>2020</b> , 889, 150	4.7	25
17	Absorption by Spinning Dust: A Contaminant for High-redshift 21 cm Observations. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 858, L10	7.9	20
16	The Polycyclic Aromatic Hydrocarbon Mass Fraction on a 10 pc Scale in the Magellanic Clouds. <i>Astrophysical Journal</i> , <b>2019</b> , 876, 62	4.7	16
15	GRAPHITE REVISITED. <i>Astrophysical Journal</i> , <b>2016</b> , 831, 109	4.7	16
14	Observational Constraints on the Physical Properties of Interstellar Dust in the Post-Planck Era. <i>Astrophysical Journal</i> , <b>2021</b> , 906, 73	4.7	16
13	Detection of PAH Absorption and Determination of the Mid-infrared Diffuse Interstellar Extinction Curve from the Sight Line toward Cyg OB2-12. <i>Astrophysical Journal</i> , <b>2020</b> , 895, 38	4.7	15
12	$[\text{C}\text{I}](10)$ and $[\text{C}\text{I}](20)$ in Resolved Local Galaxies. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 105	4.7	13
11	The Dielectric Function of AstroDust and Predictions for Polarization in the 3.4 and 10 $\mu\text{m}$ Features. <i>Astrophysical Journal</i> , <b>2021</b> , 909, 94	4.7	13
10	THERMODYNAMICS AND CHARGING OF INTERSTELLAR IRON NANOPARTICLES. <i>Astrophysical Journal</i> , <b>2017</b> , 834, 134	4.7	11
9	The Survey of Lines in M31 (SLIM): The Drivers of the $[\text{C}\text{II}]/\text{TIR}$ Variation. <i>Astrophysical Journal</i> , <b>2017</b> , 842, 128	4.7	10

8	Electron Energy Distributions in H ii Regions and Planetary Nebulae: Distributions Do Not Apply. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 30	4-7	10
7	Spatially Resolved Dust, Gas, and Star Formation in the Dwarf Magellanic Irregular NGC 4449. <i>Astrophysical Journal</i> , <b>2018</b> , 852, 106	4-7	9
6	Excitation of Polycyclic Aromatic Hydrocarbon Emission: Dependence on Size Distribution, Ionization, and Starlight Spectrum and Intensity. <i>Astrophysical Journal</i> , <b>2021</b> , 917, 3	4-7	6
5	Using the Starlight Polarization Efficiency Integral to Constrain Shapes and Porosities of Interstellar Grains. <i>Astrophysical Journal</i> , <b>2021</b> , 919, 65	4-7	4
4	Where's the Dust?: The Deepening Anomaly of Microwave Emission in NGC 4725 B. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 905, L23	7-9	3
3	On the Shapes of Interstellar Grains: Modeling Infrared Extinction and Polarization by Spheroids and Continuous Distributions of Ellipsoids. <i>Astrophysical Journal</i> , <b>2021</b> , 910, 47	4-7	2
2	Benchmarking Dust Emission Models in M101. <i>Astrophysical Journal</i> , <b>2021</b> , 912, 103	4-7	2
1	On Far-infrared and Submillimeter Circular Polarization. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 90	4-7	0