

Bruce T Draine

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	On Far-infrared and Submillimeter Circular Polarization. <i>Astrophysical Journal</i> , 2022 , 926, 90	4.7	0
24	On the Shapes of Interstellar Grains: Modeling Infrared Extinction and Polarization by Spheroids and Continuous Distributions of Ellipsoids. <i>Astrophysical Journal</i> , 2021 , 910, 47	4.7	2
23	The Dielectric Function of AstroDust and Predictions for Polarization in the 3.4 and 10 μ m Features. <i>Astrophysical Journal</i> , 2021 , 909, 94	4.7	13
22	Benchmarking Dust Emission Models in M101. <i>Astrophysical Journal</i> , 2021 , 912, 103	4.7	2
21	Excitation of Polycyclic Aromatic Hydrocarbon Emission: Dependence on Size Distribution, Ionization, and Starlight Spectrum and Intensity. <i>Astrophysical Journal</i> , 2021 , 917, 3	4.7	6
20	Using the Starlight Polarization Efficiency Integral to Constrain Shapes and Porosities of Interstellar Grains. <i>Astrophysical Journal</i> , 2021 , 919, 65	4.7	4
19	Observational Constraints on the Physical Properties of Interstellar Dust in the Post-Planck Era. <i>Astrophysical Journal</i> , 2021 , 906, 73	4.7	16
18	Where's the Dust?: The Deepening Anomaly of Microwave Emission in NGC 4725 B. <i>Astrophysical Journal Letters</i> , 2020 , 905, L23	7.9	3
17	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> , 2020 , 895, 38	4.7	15
16	Modeling Dust and Starlight in Galaxies Observed by Spitzer and Herschel: The KINGFISH Sample. <i>Astrophysical Journal</i> , 2020 , 889, 150	4.7	25
15	The Polycyclic Aromatic Hydrocarbon Mass Fraction on a 10 pc Scale in the Magellanic Clouds. <i>Astrophysical Journal</i> , 2019 , 876, 62	4.7	16
14	[C i](10) and [C i](20) in Resolved Local Galaxies. <i>Astrophysical Journal</i> , 2019 , 887, 105	4.7	13
13	After the Fall: The Dust and Gas in E+A Post-starburst Galaxies. <i>Astrophysical Journal</i> , 2018 , 855, 51	4.7	27
12	Electron Energy Distributions in H ii Regions and Planetary Nebulae: Distributions Do Not Apply. <i>Astrophysical Journal</i> , 2018 , 862, 30	4.7	10
11	Spatially Resolved Dust, Gas, and Star Formation in the Dwarf Magellanic Irregular NGC 4449. <i>Astrophysical Journal</i> , 2018 , 852, 106	4.7	9
10	Absorption by Spinning Dust: A Contaminant for High-redshift 21 cm Observations. <i>Astrophysical Journal Letters</i> , 2018 , 858, L10	7.9	20
9	THERMODYNAMICS AND CHARGING OF INTERSTELLAR IRON NANOPARTICLES. <i>Astrophysical Journal</i> , 2017 , 834, 134	4.7	11

8	Modeling the Anomalous Microwave Emission with Spinning Nanoparticles: No PAHs Required. <i>Astrophysical Journal</i> , 2017 , 836, 179	4-7	37
7	Thermal Pressure in the Cold Neutral Medium of Nearby Galaxies. <i>Astrophysical Journal</i> , 2017 , 835, 201	4-7	27
6	THE SPATIALLY RESOLVED $[\text{C}]{,}[\text{ii}]$ COOLING LINE DEFICIT IN GALAXIES. <i>Astrophysical Journal</i> , 2017 , 834, 5	4-7	65
5	The Origins of [C ii] Emission in Local Star-forming Galaxies. <i>Astrophysical Journal</i> , 2017 , 845, 96	4-7	53
4	The Survey of Lines in M31 (SLIM): The Drivers of the [C ii]/TIR Variation. <i>Astrophysical Journal</i> , 2017 , 842, 128	4-7	10
3	QUANTUM SUPPRESSION OF ALIGNMENT IN ULTRASMALL GRAINS: MICROWAVE EMISSION FROM SPINNING DUST WILL BE NEGLIGIBLY POLARIZED. <i>Astrophysical Journal</i> , 2016 , 831, 59	4-7	29
2	GRAPHITE REVISITED. <i>Astrophysical Journal</i> , 2016 , 831, 109	4-7	16
1	RADIATIVE TRANSFER MODEL OF DUST ATTENUATION CURVES IN CLUMPY, GALACTIC ENVIRONMENTS. <i>Astrophysical Journal</i> , 2016 , 833, 201	4-7	50