

Bruce T Draine

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

850
citations

516215

16
h-index

525886

27
g-index

29
all docs

29
docs citations

29
times ranked

1241
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | THE SPATIALLY RESOLVED COOLING LINE DEFICIT IN GALAXIES. <i>Astrophysical Journal</i> , 2017, 834, 5. | 1.6 | 79 |
| 2 | The Origins of [C ii] Emission in Local Star-forming Galaxies. <i>Astrophysical Journal</i> , 2017, 845, 96. | 1.6 | 73 |
| 3 | Observational Constraints on the Physical Properties of Interstellar Dust in the Post-Planck Era. <i>Astrophysical Journal</i> , 2021, 906, 73. | 1.6 | 67 |
| 4 | RADIATIVE TRANSFER MODEL OF DUST ATTENUATION CURVES IN CLUMPY, GALACTIC ENVIRONMENTS. <i>Astrophysical Journal</i> , 2016, 833, 201. | 1.6 | 60 |
| 5 | Modeling the Anomalous Microwave Emission with Spinning Nanoparticles: No PAHs Required. <i>Astrophysical Journal</i> , 2017, 836, 179. | 1.6 | 58 |
| 6 | Modeling Dust and Starlight in Galaxies Observed by Spitzer and Herschel: The KINGFISH Sample. <i>Astrophysical Journal</i> , 2020, 889, 150. | 1.6 | 54 |
| 7 | After the Fall: The Dust and Gas in E+A Post-starburst Galaxies. <i>Astrophysical Journal</i> , 2018, 855, 51. | 1.6 | 48 |
| 8 | The Dielectric Function of α -Astrodust and Predictions for Polarization in the 3.4 and 10 μ m Features. <i>Astrophysical Journal</i> , 2021, 909, 94. | 1.6 | 48 |
| 9 | Excitation of Polycyclic Aromatic Hydrocarbon Emission: Dependence on Size Distribution, Ionization, and Starlight Spectrum and Intensity. <i>Astrophysical Journal</i> , 2021, 917, 3. | 1.6 | 46 |
| 10 | The Polycyclic Aromatic Hydrocarbon Mass Fraction on a 10 pc Scale in the Magellanic Clouds. <i>Astrophysical Journal</i> , 2019, 876, 62. | 1.6 | 39 |
| 11 | QUANTUM SUPPRESSION OF ALIGNMENT IN ULTRASMALL GRAINS: MICROWAVE EMISSION FROM SPINNING DUST WILL BE NEGLIGIBLY POLARIZED. <i>Astrophysical Journal</i> , 2016, 831, 59. | 1.6 | 36 |
| 12 | 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. | 1.6 | 34 |
| 13 | Thermal Pressure in the Cold Neutral Medium of Nearby Galaxies. <i>Astrophysical Journal</i> , 2017, 835, 201. | 1.6 | 33 |
| 14 | Absorption by Spinning Dust: A Contaminant for High-redshift 21 cm Observations. <i>Astrophysical Journal Letters</i> , 2018, 858, L10. | 3.0 | 24 |
| 15 | GRAPHITE REVISITED. <i>Astrophysical Journal</i> , 2016, 831, 109. | 1.6 | 23 |
| 16 | [C i](1 μ m) and [C i](2 μ m) in Resolved Local Galaxies*. <i>Astrophysical Journal</i> , 2019, 887, 105. | 1.6 | 22 |
| 17 | THERMODYNAMICS AND CHARGING OF INTERSTELLAR IRON NANOPARTICLES. <i>Astrophysical Journal</i> , 2017, 834, 134. | 1.6 | 17 |
| 18 | Spatially Resolved Dust, Gas, and Star Formation in the Dwarf Magellanic Irregular NGC 4449. <i>Astrophysical Journal</i> , 2018, 852, 106. | 1.6 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Electron Energy Distributions in H ii Regions and Planetary Nebulae: $\hat{\nu}$ -distributions Do Not Apply. <i>Astrophysical Journal</i> , 2018, 862, 30. | 1.6 | 14 |
| 20 | Benchmarking Dust Emission Models in M101. <i>Astrophysical Journal</i> , 2021, 912, 103. | 1.6 | 14 |
| 21 | Using the Starlight Polarization Efficiency Integral to Constrain Shapes and Porosities of Interstellar Grains. <i>Astrophysical Journal</i> , 2021, 919, 65. | 1.6 | 14 |
| 22 | The Survey of Lines in M31 (SLIM): The Drivers of the [C ii]/TIR Variation. <i>Astrophysical Journal</i> , 2017, 842, 128. | 1.6 | 12 |
| 23 | 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. | 1.6 | 8 |
| 24 | Where's the Dust?: The Deepening Anomaly of Microwave Emission in NGC 4725 B. <i>Astrophysical Journal Letters</i> , 2020, 905, L23. | 3.0 | 4 |
| 25 | An Optical Spectrum of the Diffuse Galactic Light from BOSS and IRIS. <i>Astrophysical Journal</i> , 2022, 932, 112. | 1.6 | 3 |
| 26 | On Far-infrared and Submillimeter Circular Polarization. <i>Astrophysical Journal</i> , 2022, 926, 90. | 1.6 | 2 |