

Gaspard Duchene

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Effects of Starspots on Spectroscopic Mass Estimates of Low-mass Young Stars. <i>Astrophysical Journal</i> , 2022, 925, 21.	1.6	10
2	Detection of Near-infrared Water Ice at the Surface of the (Pre)Transitional Disk of AB Aur: Informing Icy Grain Abundance, Composition, and Size. <i>Astronomical Journal</i> , 2022, 163, 145.	1.9	9
3	A Highly Settled Disk around Oph163131. <i>Astrophysical Journal</i> , 2022, 930, 11.	1.6	52
4	A Multiwavelength Study of the Highly Asymmetrical Debris Disk around HD 111520. <i>Astrophysical Journal</i> , 2022, 932, 23.	1.6	4
5	The Anatomy of an Unusual Edge-on Protoplanetary Disk. I. Dust Settling in a Cold Disk. <i>Astronomical Journal</i> , 2021, 161, 238.	1.9	16
6	The Anatomy of an Unusual Edge-on Protoplanetary Disk. II. Gas Temperature and a Warm Outer Region. <i>Astronomical Journal</i> , 2021, 161, 239.	1.9	12
7	A Coplanar Circumbinary Protoplanetary Disk in the TWA 3 Triple M Dwarf System. <i>Astrophysical Journal</i> , 2021, 912, 6.	1.6	21
8	ALMA imaging of the M-dwarf Fomalhaut's debris disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4497-4510.	1.6	6
9	Four new planetesimals around typical and pre-main-sequence stars (PLATYPUS) debris discs at 8.8 mm. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3139-3147.	1.6	6
10	Circumbinary and circumstellar discs around the eccentric binary IRAS 04158+2805 – a testbed for binary-disc interaction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1157-1174.	1.6	14
11	A Deep Polarimetric Study of the Asymmetrical Debris Disk HD 106906. <i>Astrophysical Journal</i> , 2021, 915, 58.	1.6	12
12	Detection and Bulk Properties of the HR 8799 Planets with High-resolution Spectroscopy. <i>Astronomical Journal</i> , 2021, 162, 148.	1.9	39
13	HD 165054: An Astrometric Calibration Field for High-contrast Imagers in Baade's Window. <i>Astronomical Journal</i> , 2020, 159, 244.	1.9	1
14	The Gemini Planet Imager View of the HD 32297 Debris Disk. <i>Astronomical Journal</i> , 2020, 159, 251.	1.9	19
15	Keck/NIRC2 L-band Imaging of Jovian-mass Accreting Protoplanets around PDS 70. <i>Astronomical Journal</i> , 2020, 159, 263.	1.9	51
16	Imaging the 44 au Kuiper Belt Analog Debris Ring around HD 141569A with GPI Polarimetry. <i>Astronomical Journal</i> , 2020, 159, 53.	1.9	8
17	Using Data Imputation for Signal Separation in High-contrast Imaging. <i>Astrophysical Journal</i> , 2020, 892, 74.	1.6	23
18	Nine Localized Deviations from Keplerian Rotation in the DSHARP Circumstellar Disks: Kinematic Evidence for Protoplanets Carving the Gaps. <i>Astrophysical Journal Letters</i> , 2020, 890, L9.	3.0	116

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19	The Gemini Planet Imager Exoplanet Survey: Dynamical Mass of the Exoplanet $\hat{1}^2$ Pictoris b from Combined Direct Imaging and Astrometry. <i>Astronomical Journal</i> , 2020, 159, 71.	1.9	29
20	An Updated Visual Orbit of the Directly Imaged Exoplanet 51 Eridani b and Prospects for a Dynamical Mass Measurement with Gaia. <i>Astronomical Journal</i> , 2020, 159, 1.	1.9	16
21	Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign. <i>Astronomical Journal</i> , 2020, 160, 24.	1.9	64
22	Are inner disc misalignments common? ALMA reveals an isotropic outer disc inclination distribution for young dipper stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 572-588.	1.6	41
23	Revised astrometric calibration of the Gemini Planet Imager. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, 1.	1.0	15
24	First Resolved Scattered-light Images of Four Debris Disks in Scorpius-Centaurus with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2020, 159, 31.	1.9	12
25	Multiband Polarimetric Imaging of HR 4796A with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2020, 160, 79.	1.9	22
26	Multiband GPI Imaging of the HR 4796A Debris Disk. <i>Astrophysical Journal</i> , 2020, 898, 55.	1.6	29
27	Performance of the Gemini Planet Imager Non-redundant Mask and Spectroscopy of Two Close-separation Binaries: HR 2690 and HD 142527. <i>Astronomical Journal</i> , 2019, 157, 249.	1.9	3
28	Discovery of an equal-mass \hat{e} -twins TM binary population reaching 1000 \hat{A} + \hat{A} au separations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 5822-5857.	1.6	84
29	An Exo \hat{e} "Kuiper Belt with an Extended Halo around HD 191089 in Scattered Light. <i>Astrophysical Journal</i> , 2019, 882, 64.	1.6	34
30	The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au. <i>Astronomical Journal</i> , 2019, 158, 13.	1.9	270
31	Detection of a Low-mass Stellar Companion to the Accelerating A2IV Star HR 1645. <i>Astronomical Journal</i> , 2019, 158, 226.	1.9	5
32	Analysis of Neptune \hat{e} "s 2017 bright equatorial storm. <i>Icarus</i> , 2019, 321, 324-345.	1.1	25
33	Asymmetries in adaptive optics point spread functions. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.0	6
34	The Nature of Class I Sources: Periodic Variables in Orion. <i>Astrophysical Journal</i> , 2019, 885, 64.	1.6	2
35	Non-negative Matrix Factorization: Robust Extraction of Extended Structures. <i>Astrophysical Journal</i> , 2018, 852, 104.	1.6	83
36	GPI Spectra of HR 8799 c, d, and e from 1.5 to 2.4 $\hat{1}$ / $\hat{4}$ m with KLIP Forward Modeling. <i>Astronomical Journal</i> , 2018, 155, 226.	1.9	50

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37	Long-lived Protoplanetary Disks in Multiple Systems: The VLA View of HD 98800. <i>Astrophysical Journal</i> , 2018, 865, 77.	1.6	12
38	Dynamical Constraints on the HR 8799 Planets with GPI. <i>Astronomical Journal</i> , 2018, 156, 192.	1.9	95
39	Kinematic Evidence for an Embedded Protoplanet in a Circumstellar Disk. <i>Astrophysical Journal Letters</i> , 2018, 860, L13.	3.0	214
40	The planet formation imager. <i>Experimental Astronomy</i> , 2018, 46, 517-529.	1.6	12
41	Debris Disks: Structure, Composition, and Variability. <i>Annual Review of Astronomy and Astrophysics</i> , 2018, 56, 541-591.	8.1	213
42	Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS. <i>Astronomical Journal</i> , 2018, 156, 47.	1.9	28
43	Integral Field Spectroscopy of the Low-mass Companion HD 984 B with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2017, 153, 190.	1.9	15
44	Orbits for the Impatient: A Bayesian Rejection-sampling Method for Quickly Fitting the Orbits of Long-period Exoplanets. <i>Astronomical Journal</i> , 2017, 153, 229.	1.9	98
45	Characterizing 51 Eri b from 1 to 5 μm : A Partly Cloudy Exoplanet. <i>Astronomical Journal</i> , 2017, 154, 10.	1.9	110
46	An Optical/Near-infrared Investigation of HD 100546 b with the Gemini Planet Imager and MagAO. <i>Astronomical Journal</i> , 2017, 153, 244.	1.9	81
47	A Complete ALMA Map of the Fomalhaut Debris Disk. <i>Astrophysical Journal</i> , 2017, 842, 8.	1.6	89
48	Detection of Exocometary CO within the 440 Myr Old Fomalhaut Belt: A Similar CO+CO ₂ Ice Abundance in Exocomets and Solar System Comets. <i>Astrophysical Journal</i> , 2017, 842, 9.	1.6	109
49	Improving and Assessing Planet Sensitivity of the GPI Exoplanet Survey with a Forward Model Matched Filter. <i>Astrophysical Journal</i> , 2017, 842, 14.	1.6	96
50	1.2-2.4 μm Near-IR Spectrum of the Giant Planet β Pictoris b Obtained with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2017, 153, 182.	1.9	92
51	Hubble Space Telescope Scattered-light Imaging and Modeling of the Edge-on Protoplanetary Disk ESO-H α 569. <i>Astrophysical Journal</i> , 2017, 851, 56.	1.6	22
52	Evidence That the Directly Imaged Planet HD 131399 Ab Is a Background Star. <i>Astronomical Journal</i> , 2017, 154, 218.	1.9	52
53	Complex Spiral Structure in the HD 100546 Transitional Disk as Revealed by GPI and MagAO. <i>Astronomical Journal</i> , 2017, 153, 264.	1.9	99
54	SONS: The JCMT legacy survey of debris discs in the submillimetre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 3606-3663.	1.6	106

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55	A search for passive protoplanetary discs in the Taurus-Auriga star-forming region. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1783-1808.	1.6	7
56	CONSTRAINTS ON THE ARCHITECTURE OF THE HD 95086 PLANETARY SYSTEM WITH THE GEMINI PLANET IMAGER. Astrophysical Journal Letters, 2016, 822, L29.	3.0	55
57	DISCOVERY OF A SUBSTELLAR COMPANION TO THE NEARBY DEBRIS DISK HOST HR 2562. Astrophysical Journal Letters, 2016, 829, L4.	3.0	60
58	Planet Formation Imager (PFI): science vision and key requirements. , 2016, , .		7
59	THE ORBIT AND TRANSIT PROSPECTS FOR $\hat{\rho}^2$ PICTORIS b CONSTRAINED WITH ONE MILLIARCSECOND ASTROMETRY. Astronomical Journal, 2016, 152, 97.	1.9	95
60	BRINGING "THE MOTH" TO LIGHT: A PLANET-SCULPTING SCENARIO FOR THE HD 61005 DEBRIS DISK. Astronomical Journal, 2016, 152, 85.	1.9	33
61	IMAGING AN 80 au RADIUS DUST RING AROUND THE F5V STAR HD 157587. Astronomical Journal, 2016, 152, 128.	1.9	19
62	DYNAMICAL MASS MEASUREMENT OF THE YOUNG SPECTROSCOPIC BINARY V343 NORMAE AaAb RESOLVED WITH THE GEMINI PLANET IMAGER. Astronomical Journal, 2016, 152, 175.	1.9	28
63	THE PDS 66 CIRCUMSTELLAR DISK AS SEEN IN POLARIZED LIGHT WITH THE GEMINI PLANET IMAGER. Astrophysical Journal Letters, 2016, 818, L15.	3.0	22
64	THE PECULIAR DEBRIS DISK OF HD 111520 AS RESOLVED BY THE GEMINI PLANET IMAGER. Astrophysical Journal, 2016, 826, 147.	1.6	27
65	GEMINI PLANET IMAGER OBSERVATIONS OF THE AU MICROSCOPII DEBRIS DISK: ASYMMETRIES WITHIN ONE ARCSECOND. Astrophysical Journal Letters, 2015, 811, L19.	3.0	41
66	$\hat{\rho}^2$ PICTORIS b INNER DISK IN POLARIZED LIGHT AND NEW ORBITAL PARAMETERS FOR $\hat{\rho}^2$ PICTORIS b. Astrophysical Journal, 2015, 811, 18.	1.6	108
67	FIRST SCATTERED-LIGHT IMAGE OF THE DEBRIS DISK AROUND HD 131835 WITH THE GEMINI PLANET IMAGER. Astrophysical Journal Letters, 2015, 815, L14.	3.0	54
68	Stellar multiplicity and debris discs: an unbiased sample. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3160-3170.	1.6	60
69	POLARIMETRY WITH THE GEMINI PLANET IMAGER: METHODS, PERFORMANCE AT FIRST LIGHT, AND THE CIRCUMSTELLAR RING AROUND HR 4796A. Astrophysical Journal, 2015, 799, 182.	1.6	139
70	Herbig AeBe stars: multiplicity and consequences. Astrophysics and Space Science, 2015, 355, 291-301.	0.5	12
71	DIRECT IMAGING OF AN ASYMMETRIC DEBRIS DISK IN THE HD 106906 PLANETARY SYSTEM. Astrophysical Journal, 2015, 814, 32.	1.6	79
72	ASTROMETRIC CONFIRMATION AND PRELIMINARY ORBITAL PARAMETERS OF THE YOUNG EXOPLANET 51 ERIDANI b WITH THE GEMINI PLANET IMAGER. Astrophysical Journal Letters, 2015, 814, L3.	3.0	77

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73	THE DISK AROUND THE BROWN DWARF KPNO TAU 3. <i>Astrophysical Journal</i> , 2014, 789, 155.	1.6	8
74	Stellar Multiplicity. <i>Annual Review of Astronomy and Astrophysics</i> , 2013, 51, 269-310.	8.1	951
75	<i>HERSCHEL</i>/PACS SURVEY OF PROTOPLANETARY DISKS IN TAURUS/AURIGAâ€™ OBSERVATIONS OF [O I] AND [C II], AND FAR-INFRARED CONTINUUM. <i>Astrophysical Journal</i> , 2013, 776, 21.	1.6	63
76	RESOLVING THE MOTH AT MILLIMETER WAVELENGTHS. <i>Astrophysical Journal</i> , 2013, 774, 80.	1.6	18
77	KECK ADAPTIVE OPTICS OBSERVATIONS OF THE PROTOSTELLAR DISK AROUND RADIO SOURCE I IN THE ORION KLEINMANN-LOW NEBULA. <i>Astrophysical Journal</i> , 2013, 770, 134.	1.6	8
78	Locating the Dust in A Star Debris Discs. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 330-331.	0.0	0
79	A<i>Herschel</i>PACS survey of the dust and gas in Upper Scorpius disks. <i>Astronomy and Astrophysics</i> , 2013, 558, A66.	2.1	29
80	A SURPRISING DYNAMICAL MASS FOR V773 Tau B. <i>Astrophysical Journal</i> , 2012, 747, 17.	1.6	10
81	BROAD-LINE REVERBERATION IN THE<i>KEPLER</i>-FIELD SEYFERT GALAXY Zw 229-015. <i>Astrophysical Journal</i> , 2011, 732, 121.	1.6	78
82	DISK AND ENVELOPE STRUCTURE IN CLASS 0 PROTOSTARS. II. HIGH-RESOLUTION MILLIMETER MAPPING OF THE SERPENS SAMPLE. <i>Astrophysical Journal</i> , Supplement Series, 2011, 195, 21.	3.0	72
83	Pre-main sequence disks. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 45-48.	0.0	0
84	DISK AND ENVELOPE STRUCTURE IN CLASS 0 PROTOSTARS. I. THE RESOLVED MASSIVE DISK IN SERPENS FIRS 1. <i>Astrophysical Journal</i> , 2009, 707, 103-113.	1.6	63
85	THE CASE OF AB AURIGAEâ€™S DISK IN POLARIZED LIGHT: IS THERE TRULY A GAP?. <i>Astrophysical Journal</i> , 2009, 707, L132-L136.	1.6	70
86	Prospects for planet formation in multiple stellar systems. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 764-765.	0.0	0
87	The AU Microscopii Debris Disk: Multiwavelength Imaging and Modeling. <i>Astrophysical Journal</i> , 2007, 670, 536-556.	1.6	66
88	Discovery of an Extended Debris Disk around the F2 V Star HD 15745. <i>Astrophysical Journal</i> , 2007, 671, L161-L164.	1.6	29
89	Discovery of an Optically Thick, Edgeâ€™on Disk around the Herbig Ae Star PDS 144N. <i>Astrophysical Journal</i> , 2006, 645, 1272-1282.	1.6	44
90	Anatomy of a Flaring Proto-Planetary Disk Around a Young Intermediate-Mass Star. <i>Science</i> , 2006, 314, 621-623.	6.0	81

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91	On the Alignment of T Tauri Stars with the Local Magnetic Field in the Taurus Molecular Cloud Complex. <i>Astrophysics and Space Science</i> , 2004, 292, 419-425.	0.5	3
92	Polarization in the young cluster NGC 6611: circumstellar, interstellar, or ... both?. <i>Astrophysics and Space Science</i> , 2004, 292, 427-433.	0.5	2
93	On the universal outcome of star formation: is there a link between stars and brown dwarfs?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 346, 354-368.	1.6	59
94	Near-Infrared Imaging Polarimetry of the GG Tauri Circumbinary Ring. <i>Astrophysical Journal</i> , 2000, 536, L89-L92.	1.6	63
95	Is stellar multiplicity universal? Tight stellar binaries in the Orion Nebula Cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	29