

Gaspard Duchene

List of Publications by Year in descending order

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95
papers

5,421
citations

81900

39
h-index

88630

70
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96
all docs

96
docs citations

96
times ranked

3950
citing authors

#	ARTICLE	IF	CITATIONS
1	Stellar Multiplicity. <i>Annual Review of Astronomy and Astrophysics</i> , 2013, 51, 269-310.	24.3	951
2	The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au. <i>Astronomical Journal</i> , 2019, 158, 13.	4.7	270
3	Kinematic Evidence for an Embedded Protoplanet in a Circumstellar Disk. <i>Astrophysical Journal Letters</i> , 2018, 860, L13.	8.3	214
4	Debris Disks: Structure, Composition, and Variability. <i>Annual Review of Astronomy and Astrophysics</i> , 2018, 56, 541-591.	24.3	213
5	POLARIMETRY WITH THE GEMINI PLANET IMAGER: METHODS, PERFORMANCE AT FIRST LIGHT, AND THE CIRCUMSTELLAR RING AROUND HR 4796A. <i>Astrophysical Journal</i> , 2015, 799, 182.	4.5	139
6	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.	8.3	116
7	Characterizing 51 Eri b from 1 to 5.5 μm : A Partly Cloudy Exoplanet. <i>Astronomical Journal</i> , 2017, 154, 10.	4.7	110
8	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.	4.5	109
9	β PICTORIS TM INNER DISK IN POLARIZED LIGHT AND NEW ORBITAL PARAMETERS FOR β PICTORIS. <i>Astrophysical Journal</i> , 2015, 811, 18.	4.5	108
10	SONS: The JCMT legacy survey of debris discs in the submillimetre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 3606-3663.	4.4	106
11	Complex Spiral Structure in the HD 100546 Transitional Disk as Revealed by GPI and MagAO. <i>Astronomical Journal</i> , 2017, 153, 264.	4.7	99
12	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.	4.7	98
13	Improving and Assessing Planet Sensitivity of the GPI Exoplanet Survey with a Forward Model Matched Filter. <i>Astrophysical Journal</i> , 2017, 842, 14.	4.5	96
14	THE ORBIT AND TRANSIT PROSPECTS FOR β PICTORIS b CONSTRAINED WITH ONE MILLIARCSECOND ASTROMETRY. <i>Astronomical Journal</i> , 2016, 152, 97.	4.7	95
15	Dynamical Constraints on the HR 8799 Planets with GPI. <i>Astronomical Journal</i> , 2018, 156, 192.	4.7	95
16	1.24 μm Near-IR Spectrum of the Giant Planet β Pictoris b Obtained with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2017, 153, 182.	4.7	92
17	A Complete ALMA Map of the Fomalhaut Debris Disk. <i>Astrophysical Journal</i> , 2017, 842, 8.	4.5	89
18	Discovery of an equal-mass τ twin TM binary population reaching 1000 A^+ au separations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 5822-5857.	4.4	84

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19	Non-negative Matrix Factorization: Robust Extraction of Extended Structures. <i>Astrophysical Journal</i> , 2018, 852, 104.	4.5	83
20	Anatomy of a Flaring Proto-Planetary Disk Around a Young Intermediate-Mass Star. <i>Science</i> , 2006, 314, 621-623.	12.6	81
21	An Optical/Near-infrared Investigation of HD 100546 b with the Gemini Planet Imager and MagAO. <i>Astronomical Journal</i> , 2017, 153, 244.	4.7	81
22	DIRECT IMAGING OF AN ASYMMETRIC DEBRIS DISK IN THE HD 106906 PLANETARY SYSTEM. <i>Astrophysical Journal</i> , 2015, 814, 32.	4.5	79
23	BROAD-LINE REVERBERATION IN THE KEPLER-FIELD SEYFERT GALAXY Zw 229-015. <i>Astrophysical Journal</i> , 2011, 732, 121.	4.5	78
24	ASTROMETRIC CONFIRMATION AND PRELIMINARY ORBITAL PARAMETERS OF THE YOUNG EXOPLANET 51 ERIDANI b WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2015, 814, L3.	8.3	77
25	DISK AND ENVELOPE STRUCTURE IN CLASS 0 PROTOSTARS. II. HIGH-RESOLUTION MILLIMETER MAPPING OF THE SERPENS SAMPLE. <i>Astrophysical Journal, Supplement Series</i> , 2011, 195, 21.	7.7	72
26	THE CASE OF AB AURIGAE'S DISK IN POLARIZED LIGHT: IS THERE TRULY A GAP?. <i>Astrophysical Journal</i> , 2009, 707, L132-L136.	4.5	70
27	The AU Microscopii Debris Disk: Multiwavelength Imaging and Modeling. <i>Astrophysical Journal</i> , 2007, 670, 536-556.	4.5	66
28	Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign. <i>Astronomical Journal</i> , 2020, 160, 24.	4.7	64
29	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.	4.5	63
30	HERSCHEL/PACS SURVEY OF PROTOPLANETARY DISKS IN TAURUS/AURIGAE" OBSERVATIONS OF [O I] AND [C II], AND FAR-INFRARED CONTINUUM. <i>Astrophysical Journal</i> , 2013, 776, 21.	4.5	63
31	Near-Infrared Imaging Polarimetry of the GG Tauri Circumbinary Ring. <i>Astrophysical Journal</i> , 2000, 536, L89-L92.	4.5	63
32	Stellar multiplicity and debris discs: an unbiased sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 3160-3170.	4.4	60
33	DISCOVERY OF A SUBSTELLAR COMPANION TO THE NEARBY DEBRIS DISK HOST HR 2562. <i>Astrophysical Journal Letters</i> , 2016, 829, L4.	8.3	60
34	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.	4.4	59
35	CONSTRAINTS ON THE ARCHITECTURE OF THE HD 95086 PLANETARY SYSTEM WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2016, 822, L29.	8.3	55
36	FIRST SCATTERED-LIGHT IMAGE OF THE DEBRIS DISK AROUND HD 131835 WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2015, 815, L14.	8.3	54

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37	Evidence That the Directly Imaged Planet HD 131399 Ab Is a Background Star. <i>Astronomical Journal</i> , 2017, 154, 218.	4.7	52
38	A Highly Settled Disk around Oph163131. <i>Astrophysical Journal</i> , 2022, 930, 11.	4.5	52
39	Keck/NIRC2 Lâ€™band Imaging of Jovian-mass Accreting Protoplanets around PDS 70. <i>Astronomical Journal</i> , 2020, 159, 263.	4.7	51
40	GPI Spectra of HR 8799 c, d, and e from 1.5 to 2.4 μ m with KLIP Forward Modeling. <i>Astronomical Journal</i> , 2018, 155, 226.	4.7	50
41	Discovery of an Optically Thick, Edge-on Disk around the Herbig Ae Star PDS 144N. <i>Astrophysical Journal</i> , 2006, 645, 1272-1282.	4.5	44
42	GEMINI PLANET IMAGER OBSERVATIONS OF THE AU MICROSCOPII DEBRIS DISK: ASYMMETRIES WITHIN ONE ARCSECOND. <i>Astrophysical Journal Letters</i> , 2015, 811, L19.	8.3	41
43	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.	4.4	41
44	Detection and Bulk Properties of the HR 8799 Planets with High-resolution Spectroscopy. <i>Astronomical Journal</i> , 2021, 162, 148.	4.7	39
45	An Exo-Kuiper Belt with an Extended Halo around HD 191089 in Scattered Light. <i>Astrophysical Journal</i> , 2019, 882, 64.	4.5	34
46	BRINGING “THE MOTH” TO LIGHT: A PLANET-SCULPTING SCENARIO FOR THE HD 61005 DEBRIS DISK. <i>Astronomical Journal</i> , 2016, 152, 85.	4.7	33
47	Discovery of an Extended Debris Disk around the F2 V Star HD 15745. <i>Astrophysical Journal</i> , 2007, 671, L161-L164.	4.5	29
48	A Herschel PACS survey of the dust and gas in Upper Scorpius disks. <i>Astronomy and Astrophysics</i> , 2013, 558, A66.	5.1	29
49	Is stellar multiplicity universal? Tight stellar binaries in the Orion Nebula Cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	29
50	The Gemini Planet Imager Exoplanet Survey: Dynamical Mass of the Exoplanet β Pictoris b from Combined Direct Imaging and Astrometry. <i>Astronomical Journal</i> , 2020, 159, 71.	4.7	29
51	Multiband GPI Imaging of the HR 4796A Debris Disk. <i>Astrophysical Journal</i> , 2020, 898, 55.	4.5	29
52	DYNAMICAL MASS MEASUREMENT OF THE YOUNG SPECTROSCOPIC BINARY V343 NORMAE AaAb RESOLVED WITH THE GEMINI PLANET IMAGER. <i>Astronomical Journal</i> , 2016, 152, 175.	4.7	28
53	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.	4.7	28
54	THE PECULIAR DEBRIS DISK OF HD 111520 AS RESOLVED BY THE GEMINI PLANET IMAGER. <i>Astrophysical Journal</i> , 2016, 826, 147.	4.5	27

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55	Analysis of Neptune's 2017 bright equatorial storm. <i>Icarus</i> , 2019, 321, 324-345.	2.5	25
56	Using Data Imputation for Signal Separation in High-contrast Imaging. <i>Astrophysical Journal</i> , 2020, 892, 74.	4.5	23
57	THE PDS 66 CIRCUMSTELLAR DISK AS SEEN IN POLARIZED LIGHT WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2016, 818, L15.	8.3	22
58	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.	4.5	22
59	Multiband Polarimetric Imaging of HR 4796A with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2020, 160, 79.	4.7	22
60	A Coplanar Circumbinary Protoplanetary Disk in the TWA 3 Triple M Dwarf System. <i>Astrophysical Journal</i> , 2021, 912, 6.	4.5	21
61	IMAGING AN 80 au RADIUS DUST RING AROUND THE F5V STAR HD 157587. <i>Astronomical Journal</i> , 2016, 152, 128.	4.7	19
62	The Gemini Planet Imager View of the HD 32297 Debris Disk. <i>Astronomical Journal</i> , 2020, 159, 251.	4.7	19
63	RESOLVING THE MOTH AT MILLIMETER WAVELENGTHS. <i>Astrophysical Journal</i> , 2013, 774, 80.	4.5	18
64	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.	4.7	16
65	The Anatomy of an Unusual Edge-on Protoplanetary Disk. I. Dust Settling in a Cold Disk. <i>Astronomical Journal</i> , 2021, 161, 238.	4.7	16
66	Integral Field Spectroscopy of the Low-mass Companion HD 984 B with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2017, 153, 190.	4.7	15
67	Revised astrometric calibration of the Gemini Planet Imager. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, 1.	1.8	15
68	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.	4.4	14
69	Herbig AeBe stars: multiplicity and consequences. <i>Astrophysics and Space Science</i> , 2015, 355, 291-301.	1.4	12
70	Long-lived Protoplanetary Disks in Multiple Systems: The VLA View of HD 98800. <i>Astrophysical Journal</i> , 2018, 865, 77.	4.5	12
71	The planet formation imager. <i>Experimental Astronomy</i> , 2018, 46, 517-529.	3.7	12
72	The Anatomy of an Unusual Edge-on Protoplanetary Disk. II. Gas Temperature and a Warm Outer Region. <i>Astronomical Journal</i> , 2021, 161, 239.	4.7	12

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73	A Deep Polarimetric Study of the Asymmetrical Debris Disk HD 106906. <i>Astrophysical Journal</i> , 2021, 915, 58.	4.5	12
74	First Resolved Scattered-light Images of Four Debris Disks in Scorpius-Centaurus with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2020, 159, 31.	4.7	12
75	A SURPRISING DYNAMICAL MASS FOR V773 Tau B. <i>Astrophysical Journal</i> , 2012, 747, 17.	4.5	10
76	The Effects of Starspots on Spectroscopic Mass Estimates of Low-mass Young Stars. <i>Astrophysical Journal</i> , 2022, 925, 21.	4.5	10
77	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.	4.7	9
78	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.	4.5	8
79	THE DISK AROUND THE BROWN DWARF KPNO TAU 3. <i>Astrophysical Journal</i> , 2014, 789, 155.	4.5	8
80	Imaging the 44 au Kuiper Belt Analog Debris Ring around HD 141569A with GPI Polarimetry. <i>Astronomical Journal</i> , 2020, 159, 53.	4.7	8
81	Planet Formation Imager (PFI): science vision and key requirements. , 2016, , .		7
82	A search for passive protoplanetary discs in the Taurusâ€œAuriga star-forming region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1783-1808.	4.4	7
83	ALMA imaging of the M-dwarf Fomalhautâ€™s debris disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4497-4510.	4.4	6
84	Four new planetesimals around typical and pre-main-sequence stars (PLATYPUS) debris discs at 8.8â€œmm. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3139-3147.	4.4	6
85	Asymmetries in adaptive optics point spread functions. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	6
86	Detection of a Low-mass Stellar Companion to the Accelerating A2IV Star HR 1645. <i>Astronomical Journal</i> , 2019, 158, 226.	4.7	5
87	A Multiwavelength Study of the Highly Asymmetrical Debris Disk around HD 111520. <i>Astrophysical Journal</i> , 2022, 932, 23.	4.5	4
88	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.	1.4	3
89	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.	4.7	3
90	Polarization in the young cluster NGC 6611: circumstellar, interstellar, or ... both?. <i>Astrophysics and Space Science</i> , 2004, 292, 427-433.	1.4	2

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91	The Nature of Class I Sources: Periodic Variables in Orion. <i>Astrophysical Journal</i> , 2019, 885, 64.	4.5	2
92	HD 165054: An Astrometric Calibration Field for High-contrast Imagers in Baade's Window. <i>Astronomical Journal</i> , 2020, 159, 244.	4.7	1
93	Prospects for planet formation in multiple stellar systems. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 764-765.	0.0	0
94	Pre-main sequence disks. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 45-48.	0.0	0
95	Locating the Dust in A Star Debris Discs. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 330-331.	0.0	0