

# Sascha P Quanz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9014500/publications.pdf>

Version: 2024-02-01

105  
papers

6,714  
citations

47006

47  
h-index

69250

77  
g-index

110  
all docs

110  
docs citations

110  
times ranked

2598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of a planetary-mass companion within the gap of the transition disk around PDS 70. <i>Astronomy and Astrophysics</i> , 2018, 617, A44.	5.1	436
2	<scp>pynpoint</scp>: an image processing package for finding exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 948-955.	4.4	255
3	Disks around T Tauri Stars with SPHERE (DARTTS-S). I. SPHERE/IRDIS Polarimetric Imaging of Eight Prominent T Tauri Disks*. <i>Astrophysical Journal</i> , 2018, 863, 44.	4.5	225
4	DISCOVERY OF A PROBABLE 4-5 JUPITER-MASS EXOPLANET TO HD 95086 BY DIRECT IMAGING. <i>Astrophysical Journal Letters</i> , 2013, 772, L15.	8.3	196
5	STRUCTURES IN THE PROTOPLANETARY DISK OF HD142527 SEEN IN POLARIZED SCATTERED LIGHT. <i>Astrophysical Journal</i> , 2014, 781, 87.	4.5	194
6	A YOUNG PROTOPLANET CANDIDATE EMBEDDED IN THE CIRCUMSTELLAR DISK OF HD 100546. <i>Astrophysical Journal Letters</i> , 2013, 766, L1.	8.3	187
7	Orbital and atmospheric characterization of the planet within the gap of the PDS 70 transition disk. <i>Astronomy and Astrophysics</i> , 2018, 617, L2.	5.1	177
8	Three Radial Gaps in the Disk of TW Hydrae Imaged with SPHERE. <i>Astrophysical Journal</i> , 2017, 837, 132.	4.5	176
9	Small vs. large dust grains in transitional disks: do different cavity sizes indicate a planet?. <i>Astronomy and Astrophysics</i> , 2013, 560, A105.	5.1	165
10	Shadows and spirals in the protoplanetary disk HD 100453. <i>Astronomy and Astrophysics</i> , 2017, 597, A42.	5.1	147
11	GAPS IN THE HD 169142 PROTOPLANETARY DISK REVEALED BY POLARIMETRIC IMAGING: SIGNS OF ONGOING PLANET FORMATION?. <i>Astrophysical Journal Letters</i> , 2013, 766, L2.	8.3	143
12	DISCOVERY OF A COMPANION CANDIDATE IN THE HD 169142 TRANSITION DISK AND THE POSSIBILITY OF MULTIPLE PLANET FORMATION. <i>Astrophysical Journal Letters</i> , 2014, 792, L23.	8.3	142
13	Shadows cast on the transition disk of HD 135344B. <i>Astronomy and Astrophysics</i> , 2016, 595, A113.	5.1	136
14	CONFIRMATION OF THE PLANET AROUND HD 95086 BY DIRECT IMAGING. <i>Astrophysical Journal Letters</i> , 2013, 779, L26.	8.3	131
15	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A57.	5.1	129
16	CONFIRMATION AND CHARACTERIZATION OF THE PROTOPLANET HD 100546 – DIRECT EVIDENCE FOR GAS GIANT PLANET FORMATION AT 50 AU. <i>Astrophysical Journal</i> , 2015, 807, 64.	4.5	125
17	VERY LARGE TELESCOPE/NACO POLARIMETRIC DIFFERENTIAL IMAGING OF HD100546 – DISK STRUCTURE AND DUST GRAIN PROPERTIES BETWEEN 10 AND 140 AU. <i>Astrophysical Journal</i> , 2011, 738, 23.	4.5	116
18	The effects of dynamical interactions on planets in young substructured star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 2448-2458.	4.4	116

#	ARTICLE	IF	CITATIONS
19	Atmospheric characterization of Proxima b by coupling the SPHERE high-contrast imager to the ESPRESSO spectrograph. <i>Astronomy and Astrophysics</i> , 2017, 599, A16.	5.1	115
20	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A58.	5.1	105
21	FIRST RESULTS FROM VERY LARGE TELESCOPE NACO APODIZING PHASE PLATE: 4 $\hat{1}$ / <sub>4</sub> m IMAGES OF THE EXOPLANET $\hat{1}$ <sup>2</sup> PICTORIS b. <i>Astrophysical Journal Letters</i> , 2010, 722, L49-L53.	8.3	103
22	Direct detection of exoplanets in the 3â€“10 $\hat{1}$ / <sub>4</sub> m range with E-ELT/METIS. <i>International Journal of Astrobiology</i> , 2015, 14, 279-289.	1.6	102
23	The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits. <i>Astronomy and Astrophysics</i> , 2017, 603, A3.	5.1	97
24	Direct detection of scattered light gaps in the transitional disk around HDâ€‰%97048 with VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 595, A112.	5.1	96
25	Spectral and atmospheric characterization of 51 Eridani b using VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2017, 603, A57.	5.1	95
26	HD100546 MULTI-EPOCH SCATTERED LIGHT OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 790, 56.	4.5	87
27	NIR SPECTROSCOPY OF THE HAeBe STAR HD 100546. III. FURTHER EVIDENCE OF AN ORBITING COMPANION?. <i>Astrophysical Journal</i> , 2014, 791, 136.	4.5	85
28	IMAGING THE INNER AND OUTER GAPS OF THE PRE-TRANSITIONAL DISK OF HD 169142 AT 7 mm. <i>Astrophysical Journal Letters</i> , 2014, 791, L36.	8.3	83
29	The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits. <i>Astronomy and Astrophysics</i> , 2015, 573, A127.	5.1	83
30	The Circumstellar Disk HD 169142: Gas, Dust, and Planets Acting in Concert?*. <i>Astrophysical Journal</i> , 2017, 850, 52.	4.5	82
31	OPTICAL IMAGING POLARIMETRY OF THE LkCa 15 PROTOPLANETARY DISK WITH SPHERE ZIMPOL. <i>Astrophysical Journal Letters</i> , 2015, 808, L41.	8.3	81
32	The formation of Jupiter by hybrid pebbleâ€“planetesimal accretion. <i>Nature Astronomy</i> , 2018, 2, 873-877.	10.1	81
33	RESOLVING THE PLANET-HOSTING INNER REGIONS OF THE LkCa 15 DISK*. <i>Astrophysical Journal Letters</i> , 2016, 828, L17.	8.3	80
34	SPHERE/ZIMPOL high resolution polarimetric imager. <i>Astronomy and Astrophysics</i> , 2018, 619, A9.	5.1	78
35	The SPHERE view of the planet-forming disk around HD 100546. <i>Astronomy and Astrophysics</i> , 2016, 588, A8.	5.1	72
36	RESOLVED IMAGES OF THE PROTOPLANETARY DISK AROUND HD 100546 WITH ALMA. <i>Astrophysical Journal Letters</i> , 2014, 788, L34.	8.3	71

#	ARTICLE	IF	CITATIONS
37	Azimuthal asymmetries in the debris disk around HD 61005. <i>Astronomy and Astrophysics</i> , 2016, 591, A108.	5.1	70
38	An inner warp in the DoAr 44 T Tauri transition disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 5104-5114.	4.4	70
39	Exploring Dust around HD 142527 down to 0.3025 (4 au) Using SPHERE/ZIMPOL. <i>Astronomical Journal</i> , 2017, 154, 33.	4.7	62
40	The Orbit of the Companion to HD 100453A: Binary-driven Spiral Arms in a Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 854, 130.	4.5	62
41	Evolutionary models of cold and low-mass planets: cooling curves, magnitudes, and detectability. <i>Astronomy and Astrophysics</i> , 2019, 623, A85.	5.1	61
42	Evolution of protoplanetary disks from their taxonomy in scattered light: Group I vs. Group II. <i>Astronomy and Astrophysics</i> , 2017, 603, A21.	5.1	59
43	Multiple spiral patterns in the transitional disk of HD 100546. <i>Astronomy and Astrophysics</i> , 2013, 560, A20.	5.1	58
44	Investigation of the inner structures around HD 169142 with VLT/SPHERE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 1774-1783.	4.4	58
45	OPTIMIZED PRINCIPAL COMPONENT ANALYSIS ON CORONAGRAPHIC IMAGES OF THE FOMALHAUT SYSTEM. <i>Astrophysical Journal</i> , 2014, 780, 17.	4.5	56
46	Shadows and cavities in protoplanetary disks: HD 163296, HD 141569A, and HD 150193A in polarized light. <i>Astronomy and Astrophysics</i> , 2014, 568, A40.	5.1	56
47	High-resolution ALMA Observations of HD 100546: Asymmetric Circumstellar Ring and Circumplanetary Disk Upper Limits. <i>Astrophysical Journal</i> , 2019, 871, 48.	4.5	54
48	A search for accreting young companions embedded in circumstellar disks. <i>Astronomy and Astrophysics</i> , 2019, 622, A156.	5.1	50
49	Retrieval Analysis of the Emission Spectrum of WASP-12b: Sensitivity of Outcomes to Prior Assumptions and Implications for Formation History. <i>Astrophysical Journal Letters</i> , 2017, 847, L3.	8.3	49
50	Disks Around T Tauri Stars with SPHERE (DARTTS-S). <i>Astronomy and Astrophysics</i> , 2020, 633, A82.	5.1	47
51	High-contrast imaging with <i>Spitzer</i> : deep observations of Vega, Fomalhaut, and $\mu$ Eridani. <i>Astronomy and Astrophysics</i> , 2015, 574, A120.	5.1	47
52	MIRACLES: atmospheric characterization of directly imaged planets and substellar companions at $\sim 5 \times 10^4$ m. <i>Astronomy and Astrophysics</i> , 2020, 635, A182.	5.1	47
53	PynPoint: a modular pipeline architecture for processing and analysis of high-contrast imaging data. <i>Astronomy and Astrophysics</i> , 2019, 621, A59.	5.1	46
54	THE WATER ABUNDANCE OF THE DIRECTLY IMAGED SUBSTELLAR COMPANION $\hat{\rho}$ AND b RETRIEVED FROM A NEAR INFRARED SPECTRUM. <i>Astrophysical Journal</i> , 2016, 823, 14.	4.5	45

#	ARTICLE	IF	CITATIONS
55	Testing giant planet formation in the transitional disk of SAO 206462 using deep VLT/SPHERE imaging. <i>Astronomy and Astrophysics</i> , 2017, 601, A134.	5.1	44
56	Discovery of concentric broken rings at sub-arcsec separations in the HD 141569A gas-rich, debris disk with VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 590, L7.	5.1	41
57	Observability of forming planets and their circumplanetary discs II. SEDs and near-infrared fluxes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1248-1258.	4.4	41
58	Tracing the potential planet-forming regions around seven pre-main-sequence stars. <i>Astronomy and Astrophysics</i> , 2009, 502, 367-383.	5.1	40
59	The HIP 79977 debris disk in polarized light. <i>Astronomy and Astrophysics</i> , 2017, 607, A90.	5.1	40
60	SPHERE/ZIMPOL observations of the symbiotic system R Aquarii. <i>Astronomy and Astrophysics</i> , 2017, 602, A53.	5.1	37
61	The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits. <i>Astronomy and Astrophysics</i> , 2016, 586, A147.	5.1	37
62	SEARCHING FOR YOUNG JUPITER ANALOGS AROUND AP COL-L-BAND HIGH-CONTRAST IMAGING OF THE CLOSEST PRE-MAIN-SEQUENCE STAR. <i>Astrophysical Journal</i> , 2012, 754, 127.	4.5	35
63	Observability of forming planets and their circumplanetary discs I. Parameter study for ALMA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 3573-3583.	4.4	35
64	Separating extended disc features from the protoplanet in PDS 70 using VLT/SINFONI. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5819-5837.	4.4	35
65	Spectral and orbital characterisation of the directly imaged giant planet HIP 65426 b. <i>Astronomy and Astrophysics</i> , 2019, 622, A80.	5.1	33
66	Imaging low-mass planets within the habitable zone of $\hat{\iota}$ Centauri. <i>Nature Communications</i> , 2021, 12, 922.	12.8	29
67	Simulating the exoplanet yield of a space-based mid-infrared interferometer based on Kepler statistics. <i>Astronomy and Astrophysics</i> , 2018, 609, A4.	5.1	28
68	ISPY-NACO Imaging Survey for Planets around Young stars. <i>Astronomy and Astrophysics</i> , 2020, 635, A162.	5.1	28
69	METIS: the mid-infrared E-ELT imager and spectrograph. <i>Proceedings of SPIE</i> , 2014, , .	0.8	27
70	MIRACLES: atmospheric characterization of directly imaged planets and substellar companions at $< i > 1/4 < / i > m$ . <i>Astronomy and Astrophysics</i> , 2020, 644, A13.	5.1	27
71	PCA-based approach for subtracting thermal background emission in high-contrast imaging data. <i>Astronomy and Astrophysics</i> , 2018, 611, A23.	5.1	26
72	Space-based infrared interferometry to study exoplanetary atmospheres. <i>Experimental Astronomy</i> , 2018, 46, 543-560.	3.7	25

#	ARTICLE	IF	CITATIONS
73	A wide-orbit giant planet in the high-mass $\beta$ Centauri binary system. <i>Nature</i> , 2021, 600, 231-234.	27.8	23
74	Direct imaging of molten protoplanets in nearby young stellar associations. <i>Astronomy and Astrophysics</i> , 2019, 621, A125.	5.1	22
75	Atmospheric characterization of terrestrial exoplanets in the mid-infrared: biosignatures, habitability, and diversity. <i>Experimental Astronomy</i> , 2022, 54, 1197-1221.	3.7	21
76	Exoplanet science with a space-based mid-infrared nulling interferometer. , 2018, , .		21
77	Detection of scattered light from the hot dust in HD 172555. <i>Astronomy and Astrophysics</i> , 2018, 618, A151.	5.1	18
78	Searching for H $\alpha$ emitting sources around MWC 758. <i>Astronomy and Astrophysics</i> , 2018, 613, L5.	5.1	17
79	Molecular mapping of the PDS70 system. <i>Astronomy and Astrophysics</i> , 2021, 653, A12.	5.1	17
80	Exoplanets with ELT-METIS. <i>Astronomy and Astrophysics</i> , 2021, 653, A8.	5.1	16
81	Direct emission spectroscopy of exoplanets with the medium resolution imaging spectrometer on board JWST MIRI. <i>Astronomy and Astrophysics</i> , 2022, 658, A72.	5.1	15
82	RefPlanets: Search for reflected light from extrasolar planets with SPHERE/ZIMPOL. <i>Astronomy and Astrophysics</i> , 2020, 634, A69.	5.1	14
83	HD 117214 debris disk: scattered-light images and constraints on the presence of planets. <i>Astronomy and Astrophysics</i> , 2020, 635, A19.	5.1	13
84	Characterizing the Protolunar Disk of the Accreting Companion GQ Lupi B*. <i>Astronomical Journal</i> , 2021, 162, 286.	4.7	11
85	ISPY â€“ NaCo Imaging Survey for Planets around Young stars. <i>Astronomy and Astrophysics</i> , 2019, 627, A77.	5.1	10
86	The Great Planetary Heist: theft and capture in star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 920-934.	4.4	10
87	High-contrast imaging constraints on gas giant planet formationâ€”The Herbig Ae/Be star opportunity. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	1.4	9
88	Searching for gas giant planets on Solar system scales â€“ a NACO/APP $L$ -band survey of A- and F-type main-sequence stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2534-2540.	4.4	9
89	Earth as an Exoplanet. I. Time Variable Thermal Emission Using Spatially Resolved Moderate Imaging Spectroradiometer Data. <i>Astronomical Journal</i> , 2020, 160, 246.	4.7	8
90	Combining high-contrast imaging and radial velocities to constrain the planetary architectures of nearby stars. <i>Astronomy and Astrophysics</i> , 2019, 630, A50.	5.1	7

#	ARTICLE	IF	CITATIONS
91	ISPY â€œ NaCo Imaging Survey for Planets around Young stars. <i>Astronomy and Astrophysics</i> , 2019, 624, A29.	5.1	7
92	VIBES: Visual Binary Exoplanet survey with SPHERE. <i>Astronomy and Astrophysics</i> , 2020, 643, A98.	5.1	7
93	Detection of H $\alpha$ emission from PZ Telescopii B using SPHERE/ZIMPOL. <i>Astronomy and Astrophysics</i> , 2019, 631, A84.	5.1	6
94	Exoplanet detection yield of a space-based Bracewell interferometer from small to medium satellites. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, .	1.8	5
95	Europium as a lodestar: diagnosis of radiogenic heat production in terrestrial exoplanets. <i>Astronomy and Astrophysics</i> , 2020, 644, A19.	5.1	5
96	Constraints on the nearby exoplanet $\mu$ Indi Ab from deep near- and mid-infrared imaging limits. <i>Astronomy and Astrophysics</i> , 2021, 651, A89.	5.1	4
97	A Model Earth-sized Planet in the Habitable Zone of $\alpha$ Centauri A/B. <i>Astrophysical Journal</i> , 2022, 927, 134.	4.5	4
98	Detailed chemical compositions of planet-hosting stars: II. Exploration of the interiors of terrestrial-type exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	4
99	CHARACTERIZING EXOPLANETS IN THE VISIBLE AND INFRARED: A SPECTROMETER CONCEPT FOR THE ECHO SPACE MISSION. <i>Journal of Astronomical Instrumentation</i> , 2013, 02, .	1.5	3
100	New mid-infrared imaging constraints on companions and protoplanetary disks around six young stars. <i>Astronomy and Astrophysics</i> , 2021, 648, A92.	5.1	3
101	Cryogenic characterization of the grating vector apodizing phase plate coronagraph for the enhanced resolution imager and spectrograph at the Very Large Telescope. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2021, 7, .	1.8	3
102	High-contrast Imaging with Fizeau Interferometry: the Case of Altair*. <i>Astronomical Journal</i> , 2022, 163, 62.	4.7	2
103	The multiple spirals in the disk of HD100546. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 208-209.	0.0	1
104	Testing Optimized Principal Component Analysis on Coronagraphic Images of the Fomalhaut System. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 56-57.	0.0	0
105	Can a planet explain different cavity sizes for small & large dust grains in transition disks?. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 113-114.	0.0	0