

Bibliography

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Summary (compiled on May 31th 2021)

6,267 Citations for a total of **280 References** in the **Astrophysics Data System** (ADS)
182 Combined accepted/published **Refereed** (**138**) & **SPIE Instrumentation** (**44**) papers
50 Lead Author papers (among top 5 authors) and **8 First Author** ones
44 Hirsch "**h-index**" (*i.e.* 44 publications with ≥ 44 citations)

Google Scholar bibliography (8,004 citations, h-index: 47)

ORCID bibliography

Papers with  are first-authored by students I supervised or co-advised.

Refereed articles

138. [A Community Exoplanet Imaging Data Challenge for Roman CGI and Starshade Rendezvous.](#)
Turnbull, Zimmerman, **Girard**, Hildebrandt, Li et al..
arXiv:2105.14140, accepted for publication in J. Astron. Telesc. Instrum. Syst. (JATIS), **2021**.
137. [Constraints on the nearby exoplanet \$\epsilon\$ Ind Ab from deep near/mid-infrared imaging limits.](#)
Viswanath, Janson, Dahlqvist, Petit dit de la Roche, Samland et al. including **Girard**
arXiv:2105.09773, accepted for publication in Astronomy and Astrophysics, **2021**.
136. [Direct Imaging of Exoplanets Beyond the Radial Velocity Limit: Application to the HD 134987 System.](#)
Li, Hildebrandt, Kane, Zimmerman, **Girard** et al..
arXiv:2104.13531, accepted for publication in the Astronomical Journal, **2021**.
-  135. [Possible single-armed spiral in the protoplanetary disk around HD 34282.](#)
de Boer, Ginski, Chauvin, Ménard, Benisty et al. including **Girard**
Astronomy and Astrophysics, 649, A25, **2021**.
-  134. [A faint companion around CrA-9: protoplanet or obscured binary?](#)
Christiaens, Ubeira-Gabellini, Cánovas, Delorme, Pairet et al. including **Girard**
Monthly Notices of the Royal Astronomical Society, 502, 6117, **2021**.
133. [Constraining the Nature of the PDS 70 Protoplanets with VLTI/GRAVITY.](#)
Wang, Vigan, Lacour, Nowak, Stolker et al. including **Girard**
The Astronomical Journal, 161, 148, **2021**.

132. *A survey of the linear polarization of directly imaged exoplanets and brown dwarf companions with SPHERE-IRDIS. First polarimetric detections revealing disks around DH Tau B and GSC 6214-210 B.*
van Holstein, Stolker, Jensen-Clem, Ginski, Milli et al. including **Girard**
Astronomy and Astrophysics, 647, A21, **2021**.
131. *Direct imaging of sub-Jupiter mass exoplanets with James Webb Space Telescope coronagraphy.*
Carter, Hinkley, Bonavita, Phillips, **Girard** et al.
Monthly Notices of the Royal Astronomical Society, 501, 1999, **2021**.
130. *The SPHERE infrared survey for exoplanets (SHINE) – II. Observations, Data reduction and analysis Detection performances and early-results.*
Langlois, Gratton, Lagrange, Delorme, Boccaletti et al. including **Girard**
arXiv:2103.03976, accepted for publication in Astronomy and Astrophysics, **2021**.
129. *New binaries from the SHINE survey.*
Bonavita, Gratton, Desidera, Squicciarini, D’Orazi et al. including **Girard**
arXiv:2103.13706, accepted for publication in Astronomy and Astrophysics, **2021**.
128. *A Search for Polarized Thermal Emission from Directly Imaged Exoplanets and Brown Dwarf Companions to Nearby Stars.*
Jensen-Clem, Millar-Blanchaer, van Holstein, Mawet, Graham et al. including **Girard**
The Astronomical Journal, 160, 286, **2020**.
127. *Investigating three Sirius-like systems with SPHERE.*
Gratton, D’Orazi, Pacheco, Zurlo, Desidera et al. including **Girard**
Astronomy and Astrophysics, 646, A61, **2021**.
126. *Searching for proto-planets with MUSE.*
Xie, Haffert, de Boer, Kenworthy, Brinchmann et al. including **Girard**
Astronomy and Astrophysics, 644, A149, **2020**.
125. *Unveiling the β Pictoris system, coupling high contrast imaging, interferometric, and radial velocity data.*
Lagrange, Rubini, Nowak, Lacour, Grandjean et al. including **Girard**
Astronomy and Astrophysics, 642, A18, **2020**.
124. *Direct confirmation of the radial-velocity planet β Pictoris c.*
Nowak, Lacour, Lagrange, Rubini, Wang et al. including **Girard**
Astronomy and Astrophysics, 642, L2, **2020**.
123. *CS Cha B: A disc-obscured M-type star mimicking a polarised planetary companion.*
Haffert, van Holstein, Ginski, Brinchmann, Snellen et al. including **Girard**
Astronomy and Astrophysics, 640, L12, **2020**.
122. *Retrieving scattering clouds and disequilibrium chemistry in the atmosphere of HR 8799e.*
Mollière, Stolker, Lacour, Otten, Shangguan et al. including **Girard**
Astronomy and Astrophysics, 640, A131, **2020**.

121. [*Dynamical Evidence of a Spiral Arm-driving Planet in the MWC 758 Protoplanetary Disk.*](#)
Ren, Dong, van Holstein, Ruffio, Calvin et al. including **Girard**
The Astrophysical Journal, 898, L38, **2020**.
120. [*VLT/SPHERE survey for exoplanets around young early-type stars, including systems with multi-belt architectures.*](#)
Lombart, Chauvin, Rojo, Lagadec, Delorme et al. including **Girard**
Astronomy and Astrophysics, 639, A54, **2020**.
119. [*The SPHERE infrared survey for exoplanets \(SHINE\). III. The demographics of young giant exoplanets below 300 au with SPHERE.*](#)
Vigan, Fontanive, Meyer, Biller, Bonavita et al. including **Girard**
arXiv e-prints, arXiv:2007.06573, **2020**.
118. [*Detection of Polarization due to Cloud Bands in the Nearby Luhman 16 Brown Dwarf Binary.*](#)
Millar-Blanchaer, **Girard**, Karalidi, Marley, van Holstein et al.
The Astrophysical Journal, 894, 42, **2020**.
117. [*ISPY-NACO Imaging Survey for Planets around Young stars. Survey description and results from the first 2.5 years of observations.*](#)
Launhardt, Henning, Quirrenbach, Ségransan, Avenhaus et al. including **Girard**
Astronomy and Astrophysics, 635, A162, **2020**.
116. [*NaCo polarimetric observations of Sz 91 transitional disc: a remarkable case of dust filtering.*](#)
Maucó, Olofsson, Canovas, Schreiber, Christiaens et al. including **Girard**
Monthly Notices of the Royal Astronomical Society, 492, 1531, **2020**.
115. [*RefPlanets: Search for reflected light from extrasolar planets with SPHERE/ZIMPOL.*](#)
Hunziker, Schmid, Mouillet, Milli, Zurlo et al. including **Girard**
Astronomy and Astrophysics, 634, A69, **2020**.
- 🎓 114. [*Polarimetric imaging mode of VLT/SPHERE/IRDIS. I. Description, data reduction, and observing strategy.*](#)
de Boer, Langlois, van Holstein, **Girard**, Mouillet et al.
Astronomy and Astrophysics, 633, A63, **2020**.
- 🎓 113. [*Polarimetric imaging mode of VLT/SPHERE/IRDIS. II. Characterization and correction of instrumental polarization effects.*](#)
van Holstein, **Girard**, de Boer, Snik, Milli et al.
Astronomy and Astrophysics, 633, A64, **2020**.
112. [*Early formation and recent starburst activity in the nuclear disk of the Milky Way.*](#)
Nogueras-Lara, Schödel, Gallego-Calvente, Gallego-Cano, Shahzamanian et al. including **Girard**
Nature Astronomy, 4, 377, **2020**.

111. [*GALACTICNUCLEUS: A high-angular-resolution JHK_s imaging survey of the Galactic centre. II. First data release of the catalogue and the most detailed CMDs of the GC.*](#)
Nogueras-Lara, Schödel, Gallego-Calvente, Dong, Gallego-Cano et al. including **Girard**
[Astronomy and Astrophysics](#), 631, A20, **2019**.
110. [*Mapping of shadows cast on a protoplanetary disk by a close binary system.*](#)
D'Orazi, Gratton, Desidera, Avenhaus, Mesa et al. including **Girard**
[Nature Astronomy](#), 3, 167, **2019**.
109. [*SPHERE: the exoplanet imager for the Very Large Telescope.*](#)
Beuzit, Vigan, Mouillet, Dohlen, Gratton et al. including **Girard**
[Astronomy and Astrophysics](#), 631, A155, **2019**.
108. [*Constraining the properties of HD 206893 B. A combination of radial velocity, direct imaging, and astrometry data \(Corrigendum\).*](#)
Grandjean, Lagrange, Beust, Rodet, Milli et al. including **Girard**
[Astronomy and Astrophysics](#), 629, C1, **2019**.
107. [*The inner dust shell of Betelgeuse detected by polarimetric aperture-masking interferometry.*](#)
Haubois, Norris, Tuthill, Pinte, Kervella et al. including **Girard**
[Astronomy and Astrophysics](#), 628, A101, **2019**.
106. [*Constraining the properties of HD 206893 B. A combination of radial velocity, direct imaging, and astrometry data.*](#)
Grandjean, Lagrange, Beust, Rodet, Milli et al. including **Girard**
[Astronomy and Astrophysics](#), 627, L9, **2019**.
105. [*ISPY - NaCo Imaging Survey for Planets around Young stars. Discovery of an M dwarf in the gap between HD 193571 and its debris ring.*](#)
Musso Barucci, Launhardt, Kennedy, Avenhaus, Brems et al. including **Girard**
[Astronomy and Astrophysics](#), 627, A77, **2019**.
- 🎓 104. [*Separating extended disc features from the protoplanet in PDS 70 using VLT/SINFONI.*](#)
Christiaens, Casassus, Absil, Cantalloube, Gomez Gonzalez et al. including **Girard**
[Monthly Notices of the Royal Astronomical Society](#), 486, 5819, **2019**.
103. [*Two accreting protoplanets around the young star PDS 70.*](#)
Haffert, Bohn, de Boer, Snellen, Brinchmann et al. including **Girard**
[Nature Astronomy](#), 3, 749, **2019**.
- 🎓 102. [*Evidence for a Circumplanetary Disk around Protoplanet PDS 70 b.*](#)
Christiaens, Cantalloube, Casassus, Price, Absil et al. including **Girard**
[The Astrophysical Journal](#), 877, L33, **2019**.
101. [*Kernel phase imaging with VLT/NACO: high-contrast detection of new candidate low-mass stellar companions at the diffraction limit.*](#)
Kammerer, Ireland, Martinache, and **Girard**
[Monthly Notices of the Royal Astronomical Society](#), 486, 639, **2019**.

100. [A search for accreting young companions embedded in circumstellar disks. High-contrast \$H\alpha\$ imaging with VLT/SPHERE.](#)
Cugno, Quanz, Hunziker, Stolker, Schmid et al. including **Girard**
Astronomy and Astrophysics, 622, A156, **2019**.
99. [Spectral and orbital characterisation of the directly imaged giant planet HIP 65426 b.](#)
Cheetham, Samland, Brems, Launhardt, Chauvin et al. including **Girard**
Astronomy and Astrophysics, 622, A80, **2019**.
98. [SPHERE dynamical and spectroscopic characterization of HD 142527B.](#)
Claudi, Maire, Mesa, Cheetham, Fontanive et al. including **Girard**
Astronomy and Astrophysics, 622, A96, **2019**.
97. [Post-conjunction detection of \$\beta\$ Pictoris b with VLT/SPHERE.](#)
Lagrange, Boccaletti, Langlois, Chauvin, Gratton et al. including **Girard**
Astronomy and Astrophysics, 621, L8, **2019**.
96. [Star formation history and metallicity in the Galactic inner bulge revealed by the red giant branch bump.](#)
Nogueras-Lara, Schödel, Dong, Najarro, Gallego-Calvente et al. including **Girard**
Astronomy and Astrophysics, 620, A83, **2018**.
95. [SPHERE/ZIMPOL high resolution polarimetric imager. I. System overview, PSF parameters, coronagraphy, and polarimetry.](#)
Schmid, Bazzon, Roelfsema, Mouillet, Milli et al. including **Girard**
Astronomy and Astrophysics, 619, A9, **2018**.
94. [Dynamical masses of M-dwarf binaries in young moving groups. II. Toward empirical mass-luminosity isochrones.](#)
Janson, Durkan, Bonnefoy, Rodet, Köhler et al. including **Girard**
Astronomy and Astrophysics, 620, A33, **2018**.
93. [Dynamical masses of M-dwarf binaries in young moving groups. I. The case of TWA 22 and GJ 2060.](#)
Rodet, Bonnefoy, Durkan, Beust, Lagrange et al. including **Girard**
Astronomy and Astrophysics, 618, A23, **2018**.
92. [The gravitational mass of Proxima Centauri measured with SPHERE from a microlensing event.](#)
Zurlo, Gratton, Mesa, Desidera, Enia et al. including **Girard**
Monthly Notices of the Royal Astronomical Society, 480, 236, **2018**.
-  91. [SAFARI - I. A SPHERE discovery of a super metal-rich M-dwarf companion to the star HD 86006.](#)
Pantoja, Jenkins, **Girard**, Vigan, Salter Jones et al.
Monthly Notices of the Royal Astronomical Society, 479, 4958, **2018**.
90. [Medium-resolution integral-field spectroscopy for high-contrast exoplanet imaging. Molecule maps of the \$\beta\$ Pictoris system with SINFONI.](#)

Hoeijmakers, Schwarz, Snellen, de Kok, Bonnefoy et al. including **Girard**
Astronomy and Astrophysics, 617, A144, **2018**.

89. *Characterization of low-mass companion HD 142527 B.*
Christiaens, Casassus, Absil, Kimeswenger, Gomez Gonzalez et al. including **Girard**
Astronomy and Astrophysics, 617, A37, **2018**.
88. *Orbital and atmospheric characterization of the planet within the gap of the PDS 70 transition disk.*
Müller, Keppler, Henning, Samland, Chauvin et al. including **Girard**
Astronomy and Astrophysics, 617, L2, **2018**.
87. *Discovery of a planetary-mass companion within the gap of the transition disk around PDS 70.*
Keppler, Benisty, Müller, Henning, van Boekel et al. including **Girard**
Astronomy and Astrophysics, 617, A44, **2018**.
86. *Physical, spectral, and dynamical properties of asteroid (107) Camilla and its satellites.*
Pajuelo, Carry, Vachier, Marsset, Berthier et al. including **Girard**
Icarus, 309, 134, **2018**.
85. *Observations of fast-moving features in the debris disk of AU Mic on a three-year timescale: Confirmation and new discoveries.*
Boccaletti, Sezestre, Lagrange, Thébault, Gratton et al. including **Girard**
Astronomy and Astrophysics, 614, A52, **2018**.
84. *First scattered light detection of a nearly edge-on transition disk around the T Tauri star RY Lupi.*
Langlois, Pohl, Lagrange, Maire, Mesa et al. including **Girard**
Astronomy and Astrophysics, 614, A88, **2018**.
83. *GALACTICNUCLEUS: A high angular resolution JHK_s imaging survey of the Galactic centre. I. Methodology, performance, and near-infrared extinction towards the Galactic centre.*
Nogueras-Lara, Gallego-Calvente, Dong, Gallego-Cano, **Girard** et al.
Astronomy and Astrophysics, 610, A83, **2018**.
82. *Dynamical models to explain observations with SPHERE in planetary systems with double debris belts.*
Lazzoni, Desidera, Marzari, Boccaletti, Langlois et al. including **Girard**
Astronomy and Astrophysics, 611, A43, **2018**.
81. *Investigation of the inner structures around HD 169142 with VLT/SPHERE.*
Ligi, Vigan, Gratton, de Boer, Benisty et al.
Monthly Notices of the Royal Astronomical Society, 473, 1774, **2018**.
80. *In-depth study of moderately young but extremely red, very dusty substellar companion HD 206893B.*
Delorme, Schmidt, Bonnefoy, Desidera, Ginski et al. including **Girard**
Astronomy and Astrophysics, 608, A79, **2017**.

79. [The HIP 79977 debris disk in polarized light.](#)
Engler, Schmid, Thalmann, Boccaletti, Bazzon et al. including **Girard**
Astronomy and Astrophysics, 607, A90, **2017**.
78. [Discovery of a warm, dusty giant planet around HIP 65426.](#)
Chauvin, Desidera, Lagrange, Vigan, Gratton et al. including **Girard**
Astronomy and Astrophysics, 605, L9, **2017**.
77. [A search for passive protoplanetary discs in the Taurus-Auriga star-forming region.](#)
Duchêne, Becker, Yang, Bouy, De Rosa et al. including **Girard**
Monthly Notices of the Royal Astronomical Society, 469, 1783, **2017**.
76. [Exploring Dust around HD 142527 down to 0.025 \(4 au\) Using SPHERE/ZIMPOL.](#)
Avenhaus, Quanz, Schmid, Dominik, Stolker et al. including **Girard**
The Astronomical Journal, 154, 33, **2017**.
75. [A Resolved and Asymmetric Ring of PAHs within the Young Circumstellar Disk of IRS 48.](#)
Schworer, Lacour, Huélamo, Pinte, Chauvin et al. including **Girard**
The Astrophysical Journal, 842, 77, **2017**.
74. [SPHERE/ZIMPOL observations of the symbiotic system R Aquarii. I. Imaging of the stellar binary and the innermost jet clouds.](#)
Schmid, Bazzon, Milli, Roelfsema, Engler et al. including **Girard**
Astronomy and Astrophysics, 602, A53, **2017**.
73. [The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits. IV. Gravitational instability rarely forms wide, giant planets.](#)
Vigan, Bonavita, Biller, Forgan, Rice et al. including **Girard**
Astronomy and Astrophysics, 603, A3, **2017**.
72. [Upper limits for mass and radius of objects around Proxima Cen from SPHERE/VLT.](#)
Mesa, Zurlo, Milli, Gratton, Desidera et al. including **Girard**
Monthly Notices of the Royal Astronomical Society, 466, L118, **2017**.
71. [Near-infrared scattered light properties of the HR 4796 A dust ring. A measured scattering phase function from 13.6° to 166.6°.](#)
Milli, Vigan, Mouillet, Lagrange, Augereau et al. including **Girard**
Astronomy and Astrophysics, 599, A108, **2017**.
70. [BP Piscium: its flaring disc imaged with SPHERE/ZIMPOL.](#)
de Boer, **Girard**, Canovas, Min, Sitko et al.
Monthly Notices of the Royal Astronomical Society, 466, L7, **2017**.
69. [Three Radial Gaps in the Disk of TW Hydrae Imaged with SPHERE.](#)
van Boekel, Henning, Menu, de Boer, Langlois et al. including **Girard**
The Astrophysical Journal, 837, 132, **2017**.

68. [VLT/SPHERE robust astrometry of the HR8799 planets at milliarcsecond-level accuracy. Orbital architecture analysis with PyAstrOFit.](#)
Wertz, Absil, Gómez González, Milli, **Girard** et al.
Astronomy and Astrophysics, 598, A83, **2017**.
67. [Discovery of a low-mass companion inside the debris ring surrounding the F5V star HD 206893.](#)
Milli, Hiban, Christiaens, Choquet, Bonnefoy et al. including **Girard**
Astronomy and Astrophysics, 597, L2, **2017**.
66. [First Scattered-light Images of the Gas-rich Debris Disk around 49 Ceti.](#)
Choquet, Milli, Wahhaj, Soummer, Roberge et al. including **Girard**
The Astrophysical Journal, 834, L12, **2017**.
65. [MASSIVE: A Bayesian analysis of giant planet populations around low-mass stars.](#)
Lannier, Delorme, Lagrange, Borgniet, Rameau et al. including **Girard**
Astronomy and Astrophysics, 596, A83, **2016**.
64. [The SHARDDS survey: First resolved image of the HD 114082 debris disk in the Lower Centaurus Crux with SPHERE.](#)
Wahhaj, Milli, Kennedy, Ertel, Matrà et al. including **Girard**
Astronomy and Astrophysics, 596, L4, **2016**.
63. [Multiple rings in the transition disk and companion candidates around RX J1615.3-3255. High contrast imaging with VLT/SPHERE.](#)
de Boer, Salter, Benisty, Vigan, Boccaletti et al. including **Girard**
Astronomy and Astrophysics, 595, A114, **2016**.
62. [Direct detection of scattered light gaps in the transitional disk around HD 97048 with VLT/SPHERE.](#)
Ginski, Stolker, Pinilla, Dominik, Boccaletti et al. including **Girard**
Astronomy and Astrophysics, 595, A112, **2016**.
61. [Sparse aperture masking at the VLT. II. Detection limits for the eight debris disks stars \$\beta\$ Pic, AU Mic, 49 Ceti, \$\eta\$ Tel, Fomalhaut, \$g\$ Lup, HD 181327 and HR 8799.](#)
Gauchet, Lacour, Lagrange, Ehrenreich, Bonnefoy et al. including **Girard**
Astronomy and Astrophysics, 595, A31, **2016**.
60. [Calibration of quasi-static aberrations in exoplanet direct-imaging instruments with a Zernike phase-mask sensor. II. Concept validation with ZELDA on VLT/SPHERE.](#)
N'Diaye, Vigan, Dohlen, Sauvage, Caillat et al. including **Girard**
Astronomy and Astrophysics, 592, A79, **2016**.
59. [An M-dwarf star in the transition disk of Herbig HD 142527. Physical parameters and orbital elements.](#)
Lacour, Biller, Cheetham, Greenbaum, Pearce et al. including **Girard**
Astronomy and Astrophysics, 590, A90, **2016**.

58. [*Discovery of concentric broken rings at sub-arcsec separations in the HD 141569A gas-rich, debris disk with VLT/SPHERE.*](#)
Perrot, Boccaletti, Pantin, Augereau, Lagrange et al. including **Girard**
Astronomy and Astrophysics, 590, L7, **2016**.
57. [*SAXO: the extreme adaptive optics system of SPHERE \(I\) system overview and global laboratory performance.*](#)
Sauvage, Fusco, Petit, Costille, Mouillet et al. including **Girard**
Journal of Astronomical Telescopes, Instruments, and Systems, 2, 025003, **2016**.
56. [*First light of the VLT planet finder SPHERE. II. The physical properties and the architecture of the young systems PZ Telescopii and HD 1160 revisited.*](#)
Maire, Bonnefoy, Ginski, Vigan, Messina et al. including **Girard**
Astronomy and Astrophysics, 587, A56, **2016**.
55. [*First light of the VLT planet finder SPHERE. III. New spectrophotometry and astrometry of the HR 8799 exoplanetary system.*](#)
Zurlo, Vigan, Galicher, Maire, Mesa et al. including **Girard**
Astronomy and Astrophysics, 587, A57, **2016**.
54. [*First light of the VLT planet finder SPHERE. I. Detection and characterization of the substellar companion GJ 758 B.*](#)
Vigan, Bonnefoy, Ginski, Beust, Galicher et al. including **Girard**
Astronomy and Astrophysics, 587, A55, **2016**.
53. [*Luminous blue variables: An imaging perspective on their binarity and near environment.*](#)
Martayan, Lobel, Baade, Mehner, Rivinius et al. including **Girard**
Astronomy and Astrophysics, 587, A115, **2016**.
52. [*First light of the VLT planet finder SPHERE. IV. Physical and chemical properties of the planets around HR8799.*](#)
Bonnefoy, Zurlo, Baudino, Lucas, Mesa et al. including **Girard**
Astronomy and Astrophysics, 587, A58, **2016**.
51. [*The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits . III. The frequency of brown dwarfs and giant planets as companions to solar-type stars.*](#)
Reggiani, Meyer, Chauvin, Vigan, Quanz et al. including **Girard**
Astronomy and Astrophysics, 586, A147, **2016**.
50. [*A narrow, edge-on disk resolved around HD 106906 with SPHERE.*](#)
Lagrange, Langlois, Gratton, Maire, Milli et al. including **Girard**
Astronomy and Astrophysics, 586, L8, **2016**.
49. [*Adaptive Optics in High-Contrast Imaging.*](#)
Milli, Mawet, Mouillet, Kasper, and Girard including **Girard**
Astronomy at High Angular Resolution, 439, 17, **2016**.

48. [*Variability and dust filtration in the transition disk J160421.7-213028 observed in optical scattered light.*](#)
Pinilla, de Boer, Benisty, Juhász, de Juan Ovelar et al. including **Girard**
Astronomy and Astrophysics, 584, L4, **2015**.
47. [*Fast-moving features in the debris disk around AU Microscopii.*](#)
Boccaletti, Thalmann, Lagrange, Janson, Augereau et al. including **Girard**
Nature, 526, 230, **2015**.
46. [*Pluto's Atmosphere from Stellar Occultations in 2012 and 2013.*](#)
Dias-Oliveira, Sicardy, Lellouch, Vieira-Martins, Assafin et al. including **Girard**
The Astrophysical Journal, 811, 53, **2015**.
45. [*Confirmation and Characterization of the Protoplanet HD 100546 b—Direct Evidence for Gas Giant Planet Formation at 50 AU.*](#)
Quanz, Amara, Meyer, **Girard**, Kenworthy and Kasper
The Astrophysical Journal, 807, 64, **2015**.
44. [*The dust disk and companion of the nearby AGB star L₂ Puppis. SPHERE/ZIMPOL polarimetric imaging at visible wavelengths.*](#)
Kervella, Montargès, Lagadec, Ridgway, Haubois et al. including **Girard**
Astronomy and Astrophysics, 578, A77, **2015**.
43. [*The inner environment of Z Canis Majoris: High-contrast imaging polarimetry with NaCo.*](#)
Canovas, Perez, Dougados, de Boer, Ménard et al. including **Girard**
Astronomy and Astrophysics, 578, L1, **2015**.
42. [*WISE J061213.85-303612.5: a new T-dwarf binary candidate.*](#)
Huélamo, Ivanov, Kurtev, **Girard**, Borissova et al.
Astronomy and Astrophysics, 578, A1, **2015**.
41. [*New constraints on the dust surrounding HR 4796A.*](#)
Milli, Mawet, Pinte, Lagrange, Mouillet et al. including **Girard**
Astronomy and Astrophysics, 577, A57, **2015**.
40. [*The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits. II. Survey description, results, and performances.*](#)
Chauvin, Vigan, Bonnefoy, Desidera, Bonavita et al. including **Girard**
Astronomy and Astrophysics, 573, A127, **2015**.
39. [*Deep Thermal Infrared Imaging of HR 8799 bcde: New Atmospheric Constraints and Limits on a Fifth Planet.*](#)
Currie, Burrows, **Girard**, Cloutier, Fukagawa et al.
The Astrophysical Journal, 795, 133, **2014**.
38. [*Discovery of a Companion Candidate in the HD 169142 Transition Disk and the Possibility of Multiple Planet Formation.*](#)
Reggiani, Quanz, Meyer, Pueyo, Absil et al. including **Girard**
The Astrophysical Journal, 792, L23, **2014**.

37. [Searching for visual companions of close Cepheids. VLT/NACO lucky imaging of Y Oph, FF Aql, X Sgr, W Sgr, and \$\eta\$ Aql.](#)
Gallenne, Kervella, Mérand, Evans, **Girard** et al.
Astronomy and Astrophysics, 567, A60, **2014**.
36. [Very deep images of the innermost regions of the \$\beta\$ Pictoris debris disc at L'.](#)
Milli, Lagrange, Mawet, Absil, Augereau et al. including **Girard**
Astronomy and Astrophysics, 566, A91, **2014**.
35. [Ground-based transit observations of the super-Earth GJ 1214 b.](#)
Cáceres, Kabath, Hoyer, Ivanov, Rojo et al. including **Girard**
Astronomy and Astrophysics, 565, A7, **2014**.
34. [Characterization of the Benchmark Binary NLTT 33370.](#)
Schlieder, Bonnefoy, Herbst, Lépine, Berger et al. including **Girard**
The Astrophysical Journal, 783, 27, **2014**.
33. [Possible astrometric discovery of a substellar companion to the closest binary brown dwarf system WISE J104915.57-531906.1.](#)
Boffin, Pourbaix, Mužić, Ivanov, Kurtev et al. including **Girard**
Astronomy and Astrophysics, 561, L4, **2014**.
32. [Confirmation of the Planet around HD 95086 by Direct Imaging.](#)
Rameau, Chauvin, Lagrange, Meshkat, Boccaletti et al. including **Girard**
The Astrophysical Journal, 779, L26, **2013**.
31. [Searching for companions down to 2 AU from \$\beta\$ Pictoris using the L'-band AGPM coronagraph on VLT/NACO.](#)
Absil, Milli, Mawet, Lagrange, **Girard** et al.
Astronomy and Astrophysics, 559, L12, **2013**.
30. [A Combined Very Large Telescope and Gemini Study of the Atmosphere of the Directly Imaged Planet, \$\beta\$ Pictoris b.](#)
Currie, Burrows, Madhusudhan, Fukagawa, **Girard** et al.
The Astrophysical Journal, 776, 15, **2013**.
29. [Discovery of a Probable 4-5 Jupiter-mass Exoplanet to HD 95086 by Direct Imaging.](#)
Rameau, Chauvin, Lagrange, Boccaletti, Quanz et al. including **Girard**
The Astrophysical Journal, 772, L15, **2013**.
28. [A Multiplicity Census of Intermediate-mass Stars in Scorpius-Centaurus.](#)
Janson, Lafrenière, Jayawardhana, Bonavita, **Girard** et al.
The Astrophysical Journal, 773, 170, **2013**.
27. [Prospects of detecting the polarimetric signature of the Earth-mass planet \$\alpha\$ Centauri B b with SPHERE/ZIMPOL.](#)
Milli, Mouillet, Mawet, Schmid, Bazzon et al. including **Girard**
Astronomy and Astrophysics, 556, A64, **2013**.

26. [*The near-infrared spectral energy distribution of \$\beta\$ Pictoris b.*](#)
Bonnetfoy, Boccaletti, Lagrange, Allard, Mordasini et al. including **Girard**
Astronomy and Astrophysics, 555, A107, **2013**.
25. [*Characterization of the nearby L/T Binary Brown Dwarf WISE J104915.57-531906.1 at 2 pc from the Sun.*](#)
Kniazev, Vaisanen, Mužić, Mehner, Boffin et al. including **Girard**
The Astrophysical Journal, 770, 124, **2013**.
24. [*Direct-imaging discovery of a 12-14 Jupiter-mass object orbiting a young binary system of very low-mass stars.*](#)
Delorme, Gagné, **Girard**, Lagrange, Chauvin et al.
Astronomy and Astrophysics, 553, L5, **2013**.
23. [*A survey of young, nearby, and dusty stars conducted to understand the formation of wide-orbit giant planets. VLT/NaCo adaptive optics thermal and angular differential imaging.*](#)
Rameau, Chauvin, Lagrange, Klahr, Bonnetfoy et al. including **Girard**
Astronomy and Astrophysics, 553, A60, **2013**.
22. [*L'-band AGPM vector vortex coronagraph's first light on VLT/NACO. Discovery of a late-type companion at two beamwidths from an FOV star.*](#)
Mawet, Absil, Delacroix, **Girard**, Milli et al.
Astronomy and Astrophysics, 552, L13, **2013**.
21. [*A Young Protoplanet Candidate Embedded in the Circumstellar Disk of HD 100546.*](#)
Quanz, Amara, Meyer, Kenworthy, Kasper **Girard** et al.
The Astrophysical Journal, 766, L1, **2013**.
20. [*Coronagraphic Observations of Fomalhaut at Solar System Scales.*](#)
Kenworthy, Meshkat, Quanz, **Girard**, Meyer and Kasper.
The Astrophysical Journal, 764, 7, **2013**.
19. [*Holographic imaging of crowded fields: high angular resolution imaging with excellent quality at very low cost.*](#)
Schödel, Yelda, Ghez, **Girard**, Labadie et al.
Monthly Notices of the Royal Astronomical Society, 429, 1367, **2013**.
18. [*Flows of gas through a protoplanetary gap.*](#)
Casassus, van der Plas, Perez, Dent, Fomalont et al. including **Girard**
Nature, 493, 191, **2013**.
17. [*High-contrast imaging of the close environment of HD 142527. VLT/NaCo adaptive optics thermal and angular differential imaging.*](#)
Rameau, Chauvin, Lagrange, Thébault, Milli et al. including **Girard**
Astronomy and Astrophysics, 546, A24, **2012**.
16. [*New Brown Dwarf Companions to Young Stars in Scorpius-Centaurus.*](#)
Janson, Jayawardhana, **Girard**, Lafrenière, Bonavita et al.
The Astrophysical Journal, 758, L2, **2012**.

15. [*Direct imaging of extra-solar planets in star forming regions. Lessons learned from a false positive around IM Lupi.*](#)
Mawet, Absil, Montagnier, Riaud, Surdej et al. including **Girard**
Astronomy and Astrophysics, 544, A131, **2012**.
14. [*Orbital characterization of the \$\beta\$ Pictoris b giant planet.*](#)
Chauvin, Lagrange, Beust, Bonnefoy, Boccaletti et al. including **Girard**
Astronomy and Astrophysics, 542, A41, **2012**.
13. [*The position of \$\beta\$ Pictoris b position relative to the debris disk.*](#)
Lagrange, Boccaletti, Milli, Chauvin, Bonnefoy et al. including **Girard**
Astronomy and Astrophysics, 542, A40, **2012**.
12. [*Searching for Gas Giant Planets on Solar System Scales: VLT NACO/APP Observations of the Debris Disk Host Stars HD172555 and HD115892.*](#)
Quanz, Kenworthy, Meyer, **Girard** and Kasper.
The Astrophysical Journal, 736, L32, **2011**.
11. [*High angular resolution detection of \$\beta\$ Pictoris b at 2.18 \$\mu\$ m.*](#)
Bonnefoy, Lagrange, Boccaletti, Chauvin, Apai et al. including **Girard**
Astronomy and Astrophysics, 528, L15, **2011**.
10. [*Spatially extended emission around the Cepheid RS Puppis in near-infrared hydrogen lines. Adaptive optics imaging with VLT/NACO.*](#)
Gallenne, Mérand, Kervella, and **Girard**
Astronomy and Astrophysics, 527, A51, **2011**.
9. [*Adaptive optics observations of the T10 ultracool dwarf UGPS J072227.51-054031.2.*](#)
Bouy, **Girard**, Martín, Huélamo, and Lucas.
Astronomy and Astrophysics, 526, A55, **2011**.
8. [*X-shooter, NACO, and AMBER observations of the LBV Pistol Star.*](#)
Martayan, Blomme, Le Bouquin, Merand, Montagnier et al. including **Girard**
Bulletin de la Societe Royale des Sciences de Liege, 80, 400, **2011**.
7. [*First Results from Very Large Telescope NACO Apodizing Phase Plate: 4 \$\mu\$ m Images of The Exoplanet \$\beta\$ Pictoris b.*](#)
Quanz, Meyer, Kenworthy, **Girard**, Kasper et al.
The Astrophysical Journal, 722, L49, **2010**.
6. [*Follow-up observations of binary ultra-cool dwarfs.*](#)
Bouy, Martín, Brandner, Forveille, Delfosse et al. including **Girard**
Astronomy and Astrophysics, 481, 757, **2008**.
5. [*Techniques for measuring atmospheric aerosols at the high resolution fly's eye experiment.*](#)
Abbasi, Abu-Zayyad, Amann, Archbold, Belov et al. including **Girard**
Astroparticle Physics, 25, 74, **2006**.

4. *Monocular measurement of the spectrum of UHE cosmic rays by the FADC detector of the HiRes experiment.*
Abbasi, Abu-Zayyad, Amman, Archbold, Bellido et al. including **Girard**
Astroparticle Physics, 23, 157, **2005**.
3. *Measurement of the Flux of Ultrahigh Energy Cosmic Rays from Monocular Observations by the High Resolution Fly's Eye Experiment.*
Abbasi, Abu-Zayyad, Amann, Archbold, Bellido et al. including **Girard**
Physical Review Letters, 92, 151101, **2004**.
2. *Geometry and optics calibration for air fluorescence detectors using star light.*
High Resolution Fly's Eye Collaboration, Sadowski, van der Zande, Abbasi, Abu-Zayyad et al. including **Girard**
Astroparticle Physics, 18, 237, **2002**.
1. *A fiber-optic-based calibration system for the High Resolution Fly's Eye cosmic ray observatory.*
Girard, Wiencke, Archbold, Bellido, Belov et al.
Nuclear Instruments and Methods in Physics Research A, 460, 278, **2001**.

SPIE Instrumentation papers ([SPIE Digital Library](#))

44. [Planet formation with all flavors of adaptive optics: VLT/MUSE's laser tomography adaptive optics to directly image young accreting exoplanets.](#)
Girard, Haffert, Bae, Zeidler, de Boer et al.
Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 11448, 1144808, 2020.
43. [The Roman exoplanet imaging data challenge: a major community engagement effort.](#)
Girard, Bogat, Gonzalez-Quiles, Hildebrandt, Kane et al.
Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 11443, 1144337, 2020.
42. [Data processing for high-contrast imaging with the James Webb Space Telescope.](#)
Ygouf, Rocha, Beichman, Greenbaum, Leisenring et al. including **Girard**
Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 11443, 114433N, 2020.
41. [The ExoGRAVITY project: using single mode interferometry to characterize exoplanets.](#)
Lacour, Wang, Nowak, Pueyo, Eisenhauer et al. including **Girard**
Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 11446, 114460O, 2020.
40. [Making good use of JWST's coronagraphs: tools and strategies from a user's perspective.](#)
Girard, Blair, Brooks, Brooks, Brown et al.
Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106983V, 2018.
39. [Updated optical modeling of JWST coronagraph performance contrast, stability, and strategies.](#)
Perrin, Pueyo, Van Gorkom, Brooks, Rajan et al. including **Girard**
Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 1069809, 2018.
38. [Lessons for WFIRST CGI from ground-based high-contrast systems.](#)
Bailey, Bottom, Cady, Cantalloube, de Boer et al. including **Girard**
Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106986P, 2018.
37. [Around the world: status and prospects with the infrared vortex coronagraph.](#)
Absil, Karlsson, Mawet, Carlomagno, Christiaens et al. including **Girard**
Ground-based and Airborne Instrumentation for Astronomy VII, 107020T (Conference Presentation), 2018.
36. [Low wind effect on VLT/SPHERE: impact, mitigation strategy, and results.](#)
Milli, Kasper, Bourget, Pannetier, Mouillet et al. including **Girard**
Adaptive Optics Systems VI, 10703, 107032A, 2018.

35. *Combining angular differential imaging and accurate polarimetry with SPHERE/IRDIS to characterize young giant exoplanets.*
van Holstein, Snik, **Girard**, de Boer, Ginski et al.
Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10400, 1040015, **2017**.
34. *Pushing down with the contrast: scientific performances with SPHERE-IFS.*
Claudi, Antichi, Baruffolo, Bruno, Cascone et al. including **Girard**
Ground-based and Airborne Instrumentation for Astronomy VI, 9908, 99083H, **2016**.
33. *SPHERE on-sky performance compared with budget predictions.*
Dohlen, Vigan, Mouillet, Wildi, Sauvage et al. including **Girard**
Ground-based and Airborne Instrumentation for Astronomy VI, 9908, 99083D, **2016**.
32. *SPHERE IRDIS and IFS astrometric strategy and calibration.*
Maire, Langlois, Dohlen, Lagrange, Gratton et al. including **Girard**
Ground-based and Airborne Instrumentation for Astronomy VI, 9908, 990834, **2016**.
31. *Three years of harvest with the vector vortex coronagraph in the thermal infrared.*
Absil, Mawet, Karlsson, Carlomagno, Christiaens et al. including **Girard**
Ground-based and Airborne Instrumentation for Astronomy VI, 9908, 99080Q, **2016**.
30. *Interferometric direct imaging properties of a BIGRE-DAM device in laboratory.*
Patru, Antichi, Rabou, Giro, Farinato et al. including **Girard**
Optical and Infrared Interferometry and Imaging V, 9907, 99072U, **2016**.
29. *Sparse aperture masking with SPHERE.*
Cheetham, **Girard**, Lacour, Schworer, Haubois, and Beuzit
Optical and Infrared Interferometry and Imaging V, 9907, 99072T, **2016**.
28. *Training telescope operators and support astronomers at Paranal.*
Boffin, Gadotti, Anderson, Pino, de Wit, and **Girard**
Observatory Operations: Strategies, Processes, and Systems VI, 9910, 991032, **2016**.
27. *ABISM: an interactive image quality assessment tool for adaptive optics instruments.*
Girard and Tourneboeuf
Adaptive Optics Systems V, 9909, 99097V, **2016**.
26. *ZELDA, a Zernike wavefront sensor for the fine measurement of quasi-static aberrations in coronagraphic systems: concept studies and results with VLT/SPHERE.*
N'Diaye, Vigan, Dohlen, Sauvage, Caillat et al. including **Girard**
Adaptive Optics Systems V, 9909, 99096S, **2016**.
25. *Speckle lifetime in XAO coronagraphic images: temporal evolution of SPHERE coronagraphic images.*
Milli, Banas, Mouillet, Mawet, **Girard** et al.
Adaptive Optics Systems V, 9909, 99094Z, **2016**.

24. [Tackling down the low wind effect on SPHERE instrument.](#)
Sauvage, Fusco, Lamb, **Girard**, Brinkmann et al.
Adaptive Optics Systems V, 9909, 990916, **2016**.
23. [SAXO, the SPHERE extreme AO system: on-sky final performance and future improvements.](#)
Fusco, Sauvage, Mouillet, Costille, Petit et al. including **Girard**
Adaptive Optics Systems V, 9909, 99090U, **2016**.
22. [Atmospheric parameter estimation from AO wavefront sensing data: application of the FADE method with NACO.](#)
Brunner and **Girard**
Adaptive Optics Systems IV, 9148, 914861, **2014**.
21. [Discretized aperture mapping with a micro-lenses array for interferometric direct imaging.](#)
Patru, Antichi, Mawet, Jolissaint, Carbillet et al. including **Girard**
Adaptive Optics Systems IV, 9148, 91485P, **2014**.
20. [Real-time Strehl and image quality performance estimator at Paranal Observatory.](#)
Mawet, Smette, Sarazin, Kuntschner, and **Girard**
Adaptive Optics Systems IV, 9148, 91484T, **2014**.
19. [Final performance and lesson-learned of SAXO, the VLT-SPHERE extreme AO: from early design to on-sky results.](#)
Fusco, Sauvage, Petit, Costille, Dohlen et al. including **Girard**
Adaptive Optics Systems IV, 9148, 91481U, **2014**.
18. [Characterizing instrumental effects on polarization at a Nasmyth focus using NaCo.](#)
de Boer, **Girard**, Mawet, Snik, Keller, and Milli
Ground-based and Airborne Instrumentation for Astronomy V, 9147, 914787, **2014**.
17. [Adaptive phase-mask coronagraph with amplitude and phase modulation for high dynamic range synchronous detection: APM² coronagraph.](#)
Bourget, Mawet, Mardones, Schuhler, Pueyo, **Girard** et al.
Techniques and Instrumentation for Detection of Exoplanets VI, 8864, 88640J, **2013**.
16. [Small-angle, high-contrast exoplanet imaging with the L-band AGPM vector vortex coronagraph now offered at the VLT.](#)
Mawet, Absil, Milli, Delacroix, **Girard** et al.
Techniques and Instrumentation for Detection of Exoplanets VI, 8864, 88640I, **2013**.
15. [Extinction controlled adaptive mask coronagraph Lyot and phase mask dual concept for wide extinction area.](#)
Bourget, Schuhler, Mawet, Haguenaer, **Girard**, and Gonté
Modern Technologies in Space- and Ground-based Telescopes and Instrumentation II, 8450, 84505I, **2012**.

14. [*Conceptual study for a sub-pupil instrument having 4 high order adaptive optics path for parallel multi-wavelength high contrast imaging, and medium resolution spectrometry.*](#)
Gonté, Bourget, **Girard**, Haguenaue, and Mawet
Ground-based and Airborne Instrumentation for Astronomy IV, 8446, 84467Z, **2012**.
13. [*Review of small-angle coronagraphic techniques in the wake of ground-based second-generation adaptive optics systems.*](#)
Mawet, Pueyo, Lawson, Mugnier, Traub et al. including **Girard**
Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave, 8442, 844204, **2012**.
12. [*What can be retrieved from adaptive optics real-time data?*](#)
Kolb, Muller, Aller-Carpentier, Andrade, and **Girard**
Adaptive Optics Systems III, 8447, 84475U, **2012**.
11. [*Image quality and high contrast improvements on VLT/NACO.*](#)
Girard, O'Neal, Mawet, Kasper, Zins, Neichel, Kolb, Christiaens, and Tourneboeuf
Adaptive Optics Systems III, 8447, 84470L, **2012**.
10. [*Speckle imaging observations of 2005 YU55 with the NACO-VLT no-AO mode.*](#)
Rengaswamy, **Girard**, Lombardi, Ivanov, and Dumas
Optical and Infrared Interferometry III, 8445, 84453M, **2012**.
9. [*The hypertelescope at work with a BIGRE integral field unit.*](#)
Antichi, Rabou, Patru, Giro, **Girard**, and Mourard
Optical Complex Systems: OCS11, 8172, 81720X, **2011**.
8. [*Direct imaging with a dense aperture masking in comparison with a telescope or a hypertelescope.*](#)
Patru, Antichi, and **Girard**
Optical Complex Systems: OCS11, 8172, 81720W, **2011**.
7. [*Status and new operation modes of the versatile VLT/NaCo.*](#)
Girard, Kasper, Quanz, Kenworthy, Rengaswamy et al.
Adaptive Optics Systems II, 7736, 77362N, **2010**.
6. [*An apodizing phase plate coronagraph for VLT/NACO.*](#)
Kenworthy, Quanz, Meyer, Kasper, Lenzen et al. including **Girard**
Ground-based and Airborne Instrumentation for Astronomy III, 7735, 773532, **2010**.
5. [*Evaluation of performance of the MACAO systems at the VLTI.*](#)
Rengaswamy, Haguenaue, Brillant, Cortes, **Girard** et al.
Optical and Infrared Interferometry II, 7734, 773436, **2010**.
4. [*Speckle imaging with the SOAR and the very large telescopes.*](#)
Rengaswamy, **Girard**, and Montagnier
Optical and Infrared Interferometry II, 7734, 77341B, **2010**.

3. *GUIELOA, the Mexican adaptive optics system: expected performance and operation.*
Girard, Watson, Álvarez, Chapa, Cuevas et al.
Adaptive Optics Systems, 7015, 701560, **2008**.
2. *The Polychromatic Laser Guide Star for tilt measurement: progress report of the demonstrator at Observatoire de Haute Provence.*
Foy, Éric, Eysseric, Foy, Fusco et al. including **Girard**
Astronomical Adaptive Optics Systems and Applications III, 6691, 66910R, **2007**.
1. *Feasibility study of the polychromatic laser guide star.*
Foy, Pique, Bellanger, Chevrou, Petit et al. including **Girard**
Adaptive Optical System Technologies II, 4839, 484, **2003**.

Conference proceedings (other than SPIE)

41. [A Public Data Challenge for Exoplanet Science with the Roman Space Telescope Coronagraph Instrument.](#)
Bogat, Zimmerman, **Girard**, Gonzalez-Quiles, Turnbull et al.
Bulletin of the American Astronomical Society, 53, 1153, **2021**.
40. [Original use of MUSE's laser tomography adaptive optics to directly image young accreting exoplanets.](#)
Girard, de Boer, Haffert, Zeidler, Bohn et al.
arXiv e-prints / AO4ELT Proceedings, arXiv:2003.02145, **2020**.
39. [WFIRST Coronagraph Exoplanet Scene Simulations.](#)
Gonzalez Quiles, Zimmerman, Turnbull, Stark, Hildebrandt Rafels et al. including **Girard**
American Astronomical Society Meeting Abstracts #235, 235, 230.02, **2020**.
38. [PDS 70 b: Evidence for a circumplanetary disc around the first directly imaged protoplanet.](#)
Christiaens, Cantalloube, Casassus, Price, Absil et al. including **Girard**
AAS/Division for Extreme Solar Systems Abstracts, 51, 101.05, **2019**.
37. [Studying the Interior Structure of an Extremely Eccentric Hot Jupiter via Deep VLT Imaging.](#)
Hinkley, Vigan, Dong, Rice, Nelson et al. including **Girard**
AAS/Division for Extreme Solar Systems Abstracts, 51, 101.07, **2019**.
36. [High Contrast Imaging Of A New Circumbinary Disk Around A Young Spectroscopic Binary.](#)
Ygouf, Patel, Debes, Beichman, Duchene et al. including **Girard**
American Astronomical Society Meeting Abstracts #233, 233, 436.02, **2019**.
35. [Preparing for JWST Coronagraphy, a roadmap.](#)
Girard, Nickson, Pueyo, Perrin, Riedel et al.
American Astronomical Society Meeting Abstracts #233, 233, 402.01, **2019**.
34.  [Characterization of the Low-Mass Companion HD 142527 B.](#)
Christiaens, Casassus, Absil, Kimeswenger, Gomez Gonzalez, **Girard**, Ramírez, Wertz, Zurlo, Wahhaj, Salinas, Jordan, and Mawet.
Diversis Mundi: The Solar System in an Exoplanetary Context, 7, **2018**.
33. [The origin of the dusty envelope around Betelgeuse.](#)
Haubois, Norris, Tuthill, Pinte, Kervella et al. including **Girard**
The Lives and Death-Throes of Massive Stars, 329, 405, **2017**.
32. [Adaptive Optics Metrics & QC Scheme.](#)
Girard.
ESO Calibration Workshop: The Second Generation VLT Instruments and Friends, 11, **2017**.

31. [*Sphere : Spectro-Polarimetric High-Contrast Exoplanet Research.*](#)
Girard.
ESO Calibration Workshop: The Second Generation VLT Instruments and Friends, 12, 2017.
30. [*SPHERE/ZIMPOL: Characterization of the ZIMPOL PSF.*](#)
Schmid, Milli, **Girard**, Mouillet, Beuzit, and SPHERE Team.
ESO Calibration Workshop: The Second Generation VLT Instruments and Friends, 31, 2017.
29. [*A refined orbit for the satellite of asteroid \(107\) Camilla.*](#)
Pajuelo, Carry, Vachier, Berthier, Descamp et al. including **Girard**
AAS/Division for Planetary Sciences Meeting Abstracts #47, 47, 201.05, 2015.
28. [*Pluto's atmosphere from stellar occultations in 2012 and 2013.*](#)
Dias-Oliveira, Sicardy, Lellouch, Vieira-Martins, Assafin et al. including **Girard**
AAS/Division for Planetary Sciences Meeting Abstracts #47, 47, 200.09, 2015.
27. [*New, Near-to-Mid Infrared High-Contrast Imaging of the Young Extrasolar Planets, HR 8799 bcde.*](#)
Currie, Burrows, **Girard**, Cloutier, Fukagawa et al.
American Astronomical Society Meeting Abstracts, 225, #323.08, 2015.
26. [*Very deep images of the disc around beta Pictoris at Lp.*](#)
Milli, Absil, Mouillet, Lagrange, Boccaletti et al. including **Girard**
Thirty years of Beta Pic and Debris Disks Studies, 52, 2014.
25. [*Direct Imaging and Interferometric Followup of Our Closest Low-Mass Stellar Neighbors.*](#)

Girard
Habitable Worlds Across Time and Space [proceedings](#), id.17, 17, 2014.
24. [*New follow-up study of the atmosphere of GJ1214b.*](#)
Kabath, Cáceres, Hoyer, Ivanov, Rojo, **Girard** et al.
Search for Life Beyond the Solar System. Exoplanets, Biosignatures & Instruments, P3.54, 2014.
23. [*First High-Angular Resolution L' Images of the \$\beta\$ Pictoris Debris Disc with the VLT / NaCo.*](#)
Milli, Mawet, Absil, Lagrange, Mouillet, **Girard** et al.
IAU Symposium, 299, 350, 2014.
22. [*\$\beta\$ Pictoris b Orbital Properties.*](#)
Lagrange, Gilardy, Beust, Chauvin, Rameau, Boccaletti, **Girard**, and Bonnefoy
IAU Symposium, 299, 299, 2014.
21. [*Properties of the young gas giant planet \$\beta\$ Pictoris b.*](#)
Bonnefoy, Boccaletti, Lagrange, Allard, Mordasini, Beust, Chauvin, **Girard** et al.
IAU Symposium, 299, 241, 2014.

20. [*Companion search around \$\beta\$ Pictoris with the newly commissioned L'-band vector vortex coronagraph on VLT/NACO.*](#)
Mawet, Absil, Milli, Baudoz, Boccaletti et al. including **Girard**
Exploring the Formation and Evolution of Planetary Systems, 299, 50, **2014**.
19. [*Successes and challenges of the APP Coronagraph.*](#)
Kenworthy, Quanz, Otten, Meshkat et al. including **Girard**
IAU Symposium, 299, 40, **2014**.
18. [*A Confirmed Directly Imaged Planet Orbiting a Nearby Young, Dusty Star.*](#)
Currie, Rameau, Chauvin, Lagrange, Boccaletti et al. including **Girard**
American Astronomical Society Meeting Abstracts #223, 223, 430.04, **2014**.
17. [*Upgrade of the ESO Laser Guide Star Facility.*](#)
Lewis, Bonaccini Calia, Buzzoni, Duhoux et al. including **Girard**
Proceedings of the Third AO4ELT Conference, 119, **2013**.
16. [*Deconvolution-based super resolution for post-AO data.*](#)
Carillet, La Camera, Chesneau, Millour, **Girard**, and Prato
Proceedings of the Third AO4ELT Conference, 104, **2013**.
15. [*Discret aperture mapping with a micro-lenses array for interferometric direct imaging.*](#)
Patru, Antichi, Rabou, Giro, Mawet et al. including **Girard**
Proceedings of the Third AO4ELT Conference, 93, **2013**.
14. [*A giant planet around HD95086 ?*](#)
Rameau, Chauvin, Lagrange, Meshkat, Boccaletti et al. including **Girard**
Protostars and Planets VI Posters, 2, **2013**.
13. [*On the Binarity of LBV Stars.*](#)
Martayan, Lobel, Baade, Blomme, Frémat et al. including **Girard**
Circumstellar Dynamics at High Resolution, 464, 293, **2012**.
12. [*On Our Multi-Wavelength Campaign of the 2011 Outburst of T Pyx†.*](#)
Schmidtobreick, Bayo, Momany, Ivanov, Barria et al. including **Girard**
IAU Symposium, 285, 404, **2012**.
11. [*Dense Aperture Masking study : approaching theoretical contrasts with conventional, narrow-field Adaptive Optics.*](#)
Patru and **Girard**
AO4ELT2: Adaptive Optics for Extremely Large Telescopes proceedings, id.P5, P5, **2011**.
10. [*High-angular resolution observations of the Pistol star.*](#)
Martayan, Blomme, Le Bouquin, Merand, Montagnier et al. including **Girard**
IAU Symposium, 272, 616, **2011**.
9. [*X-shooter, NACO, and AMBER observations of the LBV Pistol Star.*](#)
Martayan, Blomme, Le Bouquin, Merand, Montagnier et al. including **Girard**
Bulletin de la Societe Royale des Sciences de Liege, 80, 400, **2011**.

8. [*Coronagraphic Upgrades at the VLT/NaCo: 4-Micron APP Enhanced Spectroscopy?*](#)
Girard, Janson, Quanz, Kenworthy, Meyer et al.
In the Spirit of Lyot 2010, **2010**.
7. [*Direct detection of exoplanets and circumstellar disks using NaCo APP and NaCo PDI.*](#)
Quanz, Meyer, Kenworthy, Kasper, Lenzen, **Girard** et al.
In the Spirit of Lyot 2010, **2010**.
6. [*Perspectives for speckle cameras at the GTC and WHT.*](#)
Schödel, **Girard**, Rengaswamy, Montagnier, Ghez, and Morris
Astronomy & Astrophysics Seminars of the Instituto de Astrofísica de Canarias, 200, **2010**.
5. [*The Polychromatic Laser Guide Star: the ELP-OA demonstrator at Observatoire de Haute Provence.*](#)
Foy, Chatagnat, Dubet, éric, Eysseric, Foy et al. including **Girard**, Laloge, Le van Suu, Messaoudi, Perruchot, Richaud, Richaud, Rondeau, Tallon, Thiébaud, and Boër
SF2A-2007: Proceedings of the French Society of Astronomy and Astrophysics, 37, **2007**.
4. [*Polychromatic Laser Guide Star. Progress report and modeless laser.*](#)
Foy, **Girard**, Tallon, Thiébaud, Pique, Farinotti, and van Dam
SF2A-2003: Semaine de l'Astrophysique Francaise, 339, **2003**.
3. [*ATTILA - Measuring the atmospheric tilt from its wavelength dependence.*](#)
Girard and Foy
SF2A-2002: Semaine de l'Astrophysique Francaise, 209, **2002**.
2. [*ELP-OA: Final report of the feasibility study.*](#)
Foy, Pique, Bellanger, Chevrou, Petit et al. including **Girard**, Tallon, Thiébaud, Vaillant, Foy, and Van Dam
SF2A-2002: Semaine de l'Astrophysique Francaise, 173, **2002**.
1. [*Night-to-Night Calibration Checks at the High Resolution Fly's Eye Cosmic Ray Observatory.*](#)
Archbold, Abu-Zayyad, Albretsen, Belov, Cao et al. including **Girard**
APS April Meeting Abstracts, 46, C14.008, **2001**.

Other publications (Book Chapters, Decadal Survey White Papers, Code Releases, ESO Messenger, JWST Proposals, PhD thesis)

33. [*Demonstrating a Model-based Coronagraphic Phase Retrieval for Processing of High-Contrast-Imaging Observations with the James Webb Space Telescope.*](#)
Ygouf, Beichman, De Furio, **Girard**, Green et al.
JWST Proposal. Cycle 1, 2627, 2021.
32. [*Direct Imaging Spectroscopy of two Jovian Exoplanets: Characterization of the TYC 8998-760-1 Multi-Planetary System.*](#)
Wilcomb, Konopacky, Perrin, Barman, Bonnefoy et al. including **Girard**
JWST Proposal. Cycle 1, 2044, 2021.
31. [*Unveiling formation signatures in the atmosphere of beta Pictoris c.*](#)
Stolker, Girard, Hinkley, Kammerer, Lacour et al. including **Girard**
JWST Proposal. Cycle 1, 2297, 2021.
30. [*Cloud composition and origin of the reddest known sub-stellar companion HD 206893 B.*](#)
Kammerer, Stolker, Cooper, **Girard**, Lacour et al.
JWST Proposal. Cycle 1, 1843, 2021.
29. [*High-precision astrometric studies in direct imaging with SPHERE.*](#)
Maire, Chauvin, Vigan, Gratton, Langlois et al. including **Girard**
ESO Messenger, arXiv:2103.13700, 2021.
28.  [*IRDAP: SPHERE-IRDIS polarimetric data reduction pipeline.*](#)
van Holstein, **Girard**, de Boer, Snik, Milli et al.
Astrophysics Source Code Library, ascl:2004.015, 2020.
27. [*NaCo — The Story of a Lifetime.*](#)
Schmidtobreick, Ageorges, Amico, Brandner, Cerda et al. including **Girard**
The Messenger, 179, 7, 2020.
26. [*Mapping Ultracool Atmospheres: Time-domain Observations of Brown Dwarfs and Exoplanets.*](#)
Apai, Biller, Burgasser, **Girard**, Gizis et al.
Bulletin of the American Astronomical Society, 51, 204, 2019.
25. [*The Demographics and Atmospheres of Giant Planets with the ELTs.*](#)
Bowler, Sallum, Boss, Brandt, Briesemeister et al. including **Girard**
Bulletin of the American Astronomical Society, 51, 496, 2019.
24. [*The Critical Strategic Importance of Adaptive Optics-Assisted Ground-Based Telescopes for the Success of Future NASA Exoplanet Direct Imaging Missions.*](#)
Currie, Belikov, Guyon, Kasdin, Marois et al. including **Girard**
Bulletin of the American Astronomical Society, 51, 154, 2019.

23. [*Establishing an Empirical Substellar Sequence to Planetary Masses.*](#)
Dupuy, Kraus, Theissen, Bardalez Gagliuffi, Burgasser et al. including **Girard**
Bulletin of the American Astronomical Society, 51, 469, **2019**.
22. [*Realizing the Promise of High-Contrast Imaging: More Than 100 Gas-Giant Planets with Masses, Orbits, and Spectra Enabled by Gaia+WFIRST Astrometry.*](#)
Brandt, Briesemeister, Savransky, Fitzgerald, Mazin et al. including **Girard**
Bulletin of the American Astronomical Society, 51, 269, **2019**.
21. [*Cold Debris Disks as Strategic Targets for the 2020s.*](#)
Debes, Choquet, Faramaz, Duchene, Hines et al. including **Girard**
Bulletin of the American Astronomical Society, 51, 566, **2019**.
20. [*Three Years of SPHERE: The Latest View of the Morphology and Evolution of Protoplanetary Discs.*](#)
Garufi, Benisty, Stolker, Avenhaus, de Boer et al. including **Girard**
The Messenger, 169, 32, **2017**.
19. [*Supernova 1987A at 30.*](#)
Spyromilio, Leibundgut, Fransson, Larsson, Migotto Girard et al. including **Girard**
The Messenger, 167, 26, **2017**.
18. [*Adaptive Optics in High-Contrast Imaging.*](#)
Milli, Mawet, Mouillet, Kasper, and **Girard**
Astronomy at High Angular Resolution, 439, 17, **2016**.
17. [*SPHERE Science Verification.*](#)
Leibundgut, Beuzit, Gibson, **Girard**, Kasper, Kerber, Lundin, Mawet, McClure, Milli, Petr-Gotzens, Siebenmorgen, van den Ancker, and Wahhaj
The Messenger, 159, 2, **2015**.
16. [*Ensuring the Reliability and Performance of Instrumentation at the Paranal Observatory.*](#)
Gonté, Smette, Abadie, Alvarez, Baksai et al. including **Girard**
The Messenger, 157, 17, **2014**.
15. [*Speckle Imaging with VLT/NACO No-AO Mode.*](#)
Rengaswamy, **Girard**, de Wit, and Boffin
The Messenger, 155, 12, **2014**.
14. [*Laser Guide Star Facility Upgrade.*](#)
Lewis, Calia, Buzzoni, Duhoux, Fischer et al. including **Girard**
The Messenger, 155, 6, **2014**.
13. [*Following the G2 Gas Cloud towards the Galactic Centre.*](#)
Walsh, Gillessen, Genzel, Fritz, Eisenhauer et al. including **Girard**
The Messenger, 153, 25, **2013**.
12. [*High Contrast Imaging with the New Vortex Coronagraph on NACO.*](#)
Mawet, Absil, **Girard**, Milli, O'Neal et al.
The Messenger, 152, 8, **2013**.

11. [*Holographic Imaging: A Versatile Tool for High Angular Resolution Imaging.*](#)
Schödel and **Girard**
The Messenger, 150, 26, **2012**.
10. [*VizieR Online Data Catalog: VLT/NaCo images of HD 142527 \(Rameau+, 2012\).*](#)
Rameau, Chauvin, Lagrange, Thebault, Milli et al. including **Girard**
VizieR Online Data Catalog, 354, **2012**.
9. [*Gearing up the SPHERE.*](#)
Kasper, Beuzit, Feldt, Dohlen, Mouillet et al. including **Girard**
The Messenger, 149, 17, **2012**.
8. [*Report on the Workshop "Observing Planetary Systems II".*](#)
Dumas, Sterzik, Melo, Siebenmorgen, **Girard**, and Mouillet
The Messenger, 148, 44, **2012**.
7. [*Sparse Aperture Masking on Paranal.*](#)
Lacour, Tuthill, Ireland, Amico, and **Girard**
The Messenger, 146, 18, **2011**.
6. [*A New Coronagraph for NAOS-CONICA – the Apodising Phase Plate.*](#)
Kenworthy, Quanz, Meyer, Kasper, **Girard** et al.
The Messenger, 141, 2, **2010**.
5. [*New Staff at ESO.*](#)
Girard, de Wit, and Neumayer
The Messenger, 140, 61, **2010**.
4. [*A New Lenslet Array for the NACO Laser Guide Star Wavefront Sensor.*](#)
Kasper, Zins, Feautrier, O’Neal, Michaud et al. including **Girard**
The Messenger, 140, 8, **2010**.
3. [*Perspectives for speckle cameras at the GTC and WHT.*](#)
Schödel, **Girard**, Rengaswamy, Montagnier, Ghez et al.
IAC Talks, Astronomy and Astrophysics Seminars from the Instituto de Astrofísica de Canarias,
200, **2010**.
2. [*The Synoptic All-Sky Infrared \(SASIR\) Survey.*](#)
Bloom, Prochaska, Lee, Jesús González, Ramírez-Ruiz et al. including **Girard**
arXiv e-prints, arXiv:0905.1965, **2009**.
1. [*On Sky Validation of the Polychromatic Laser Guide Star Concept.*](#)
Girard
Ph.D. Thesis, **2005**.