

Raffaele G Gratton

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8232226/raffaele-g-gratton-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

6,729
citations

41
h-index

81
g-index

149
ext. papers

7,222
ext. citations

4.8
avg, IF

5.47
L-index

#	Paper	IF	Citations
134	Abundance Variations within Globular Clusters. <i>Annual Review of Astronomy and Astrophysics</i> , 2004 , 42, 385-440	31.7	659
133	Multiple populations in globular clusters. <i>Astronomy and Astrophysics Review</i> , 2012 , 20, 1	28.8	538
132	Metallicities on the Double Main Sequence of ω Centauri Imply Large Helium Enhancement. <i>Astrophysical Journal</i> , 2005 , 621, 777-784	4.7	368
131	Predictions for Self-Pollution in Globular Cluster Stars. <i>Astrophysical Journal</i> , 2001 , 550, L65-L69	4.7	351
130	Distances, Ages, and Epoch of Formation of Globular Clusters. <i>Astrophysical Journal</i> , 2000 , 533, 215-235	4.7	291
129	SPHERE: a Planet Finder Instrument for the VLT 2008 ,		258
128	Ages of Globular Clusters from HIPPARCOS Parallaxes of Local Subdwarfs. <i>Astrophysical Journal</i> , 1997 , 491, 749-771	4.7	244
127	The Binary Frequency Among Carbon-enhanced, s-Process-rich, Metal-poor Stars. <i>Astrophysical Journal</i> , 2005 , 625, 825-832	4.7	230
126	Distance to the Large Magellanic Cloud: The RR Lyrae Stars. <i>Astronomical Journal</i> , 2003 , 125, 1309-1329	4.9	187
125	SPHERE: the exoplanet imager for the Very Large Telescope. <i>Astronomy and Astrophysics</i> , 2019 , 631, A155	5.1	182
124	The Multiplicity of the Subgiant Branch of ω Centauri: Evidence for Prolonged Star Formation. <i>Astrophysical Journal</i> , 2007 , 663, 296-314	4.7	156
123	Metal Abundances of Red Clump Stars in Open Clusters. I. NGC 6819. <i>Astronomical Journal</i> , 2001 , 121, 327-336	4.9	150
122	FIRST LIGHT LBT AO IMAGES OF HR 8799 bcde AT 1.6 AND 3.3 μ m: NEW DISCREPANCIES BETWEEN YOUNG PLANETS AND OLD BROWN DWARFS. <i>Astrophysical Journal</i> , 2012 , 753, 14	4.7	132
121	SODIUM-OXYGEN ANTICORRELATION AND NEUTRON-CAPTURE ELEMENTS IN OMEGA CENTAURI STELLAR POPULATIONS. <i>Astrophysical Journal</i> , 2011 , 731, 64	4.7	121
120	Stellar Archaeology: A Keck Pilot Program on Extremely Metal-poor Stars from the Hamburg/ESO Survey. II. Abundance Analysis. <i>Astronomical Journal</i> , 2002 , 124, 481-506	4.9	116
119	M54 + SAGITTARIUS = ω CENTAURI. <i>Astrophysical Journal Letters</i> , 2010 , 714, L7-L11	7.9	112
118	Stellar Archaeology: A Keck Pilot Program on Extremely Metal-Poor Stars From the Hamburg/ESO Survey. III. The Lead (P[CLC]b[CLC]) Star HE 00240523. <i>Astronomical Journal</i> , 2003 , 125, 875-893	4.9	108

117	An Abundance Analysis for Four Red Horizontal-Branch Stars in the Extremely Metal-Rich Globular Cluster NGC 6528. <i>Astronomical Journal</i> , 2001 , 122, 1469-1485	4.9	105
116	ABUNDANCES FOR A LARGE SAMPLE OF RED GIANTS IN NGC 1851: HINTS FOR A MERGER OF TWO CLUSTERS?. <i>Astrophysical Journal Letters</i> , 2010 , 722, L1-L6	7.9	97
115	Lead: Asymptotic Giant Branch Production and Galactic Chemical Evolution. <i>Astrophysical Journal</i> , 2001 , 549, 346-352	4.7	97
114	Discovery of Carbon/Oxygen-depleted Blue Straggler Stars in 47 Tucanae: The Chemical Signature of a Mass Transfer Formation Process. <i>Astrophysical Journal</i> , 2006 , 647, L53-L56	4.7	94
113	An Abundance Analysis for Five Red Horizontal-Branch Stars in the Extremely Metal-rich Globular Cluster NGC 6553. <i>Astrophysical Journal</i> , 1999 , 523, 739-751	4.7	79
112	The Metallicity of the Old Open Cluster NGC 6791. <i>Astrophysical Journal</i> , 2006 , 642, 462-469	4.7	74
111	What is a globular cluster? An observational perspective. <i>Astronomy and Astrophysics Review</i> , 2019 , 27, 1	28.8	71
110	Observational Evidence for a Different Initial Mass Function in the Early Galaxy. <i>Astrophysical Journal</i> , 2005 , 625, 833-837	4.7	70
109	Lithium abundance in the globular cluster M4: from the turn-off to the red giant branch bump?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 412, 81-94	4.3	69
108	THE HELIUM CONTENT OF GLOBULAR CLUSTERS: NGC 6121 (M4). <i>Astrophysical Journal</i> , 2012 , 748, 62	4.7	68
107	X-SHOOTER OBSERVATIONS OF MAIN-SEQUENCE STARS IN THE GLOBULAR CLUSTER NGC 2808: FIRST CHEMICAL TAGGING OF A He-NORMAL AND A He-RICH DWARF. <i>Astrophysical Journal Letters</i> , 2010 , 720, L41-L45	7.9	65
106	CALCIUM AND LIGHT-ELEMENTS ABUNDANCE VARIATIONS FROM HIGH-RESOLUTION SPECTROSCOPY IN GLOBULAR CLUSTERS. <i>Astrophysical Journal Letters</i> , 2010 , 712, L21-L25	7.9	64
105	CHEMICAL TAGGING OF THREE DISTINCT POPULATIONS OF RED GIANTS IN THE GLOBULAR CLUSTER NGC 6752. <i>Astrophysical Journal Letters</i> , 2012 , 750, L14	7.9	61
104	SEARCHING FOR CHEMICAL SIGNATURES OF MULTIPLE STELLAR POPULATIONS IN THE OLD, MASSIVE OPEN CLUSTER NGC 6791. <i>Astrophysical Journal</i> , 2014 , 796, 68	4.7	57
103	THE METALLICITY SPREAD AND THE AGE-METALLICITY RELATION OF ω CENTAURI. <i>Astrophysical Journal</i> , 2014 , 791, 107	4.7	56
102	Ba STARS AND OTHER BINARIES IN FIRST AND SECOND GENERATION STARS IN GLOBULAR CLUSTERS. <i>Astrophysical Journal Letters</i> , 2010 , 719, L213-L217	7.9	55
101	The absolute magnitude of field metal-poor horizontal branch stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998 , 296, 739-745	4.3	51
100	SARG: The High Resolution Spectrograph of TNG. <i>Experimental Astronomy</i> , 2001 , 12, 107-143	1.3	51

99	LITHIUM AND PROTON-CAPTURE ELEMENTS IN GLOBULAR CLUSTER DWARFS: THE CASE OF 47 TUC. <i>Astrophysical Journal Letters</i> , 2010 , 713, L1-L5	7.9	48
98	BIGRE: A LOW CROSS-TALK INTEGRAL FIELD UNIT TAILORED FOR EXTRASOLAR PLANETS IMAGING SPECTROSCOPY. <i>Astrophysical Journal</i> , 2009 , 695, 1042-1057	4.7	46
97	COORDINATED X-RAY AND OPTICAL OBSERVATIONS OF STAR-PLANET INTERACTION IN HD 17156. <i>Astrophysical Journal Letters</i> , 2015 , 811, L2	7.9	45
96	THE GRAY NEEDLE: LARGE GRAINS IN THE HD 15115 DEBRIS DISK FROM LBT/PISCES/Ks AND LBTI/LMIRcam/L? ADAPTIVE OPTICS IMAGING. <i>Astrophysical Journal</i> , 2012 , 752, 57	4.7	43
95	The chemical composition of nearby young associations: s-process element abundances in AB Doradus, Carina-Near and Ursa Major. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 423, 2789-2799	4.3	42
94	SPHERE ZIMPOL: overview and performance simulation 2008 ,		42
93	Chemical composition of clump stars in the open cluster NGC 6134?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 407, 1866-1874	4.3	41
92	The Link between Chemical Anomalies along the Red Giant Branch and the Horizontal Branch Extension in Globular Clusters. <i>Astrophysical Journal</i> , 2007 , 671, L125-L128	4.7	41
91	Stellar Archaeology: A Keck Pilot Program on Extremely Metal-poor Stars from the Hamburg/ESO Survey. I. Stellar Parameters. <i>Astronomical Journal</i> , 2002 , 124, 470-480	4.9	41
90	CHEMICAL AND KINEMATICAL PROPERTIES OF BLUE STRAGGLER STARS AND HORIZONTAL BRANCH STARS IN NGC 6397. <i>Astrophysical Journal</i> , 2012 , 754, 91	4.7	37
89	Lithium abundances in globular cluster giants: NGC 1904, NGC 2808, and NGC 362?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 4038-4047	4.3	35
88	EPICS: direct imaging of exoplanets with the E-ELT 2010 ,		35
87	SPICES: spectro-polarimetric imaging and characterization of exoplanetary systems. <i>Experimental Astronomy</i> , 2012 , 34, 355-384	1.3	34
86	POTASSIUM IN GLOBULAR CLUSTER STARS: COMPARING NORMAL CLUSTERS TO THE PECULIAR CLUSTER NGC 2419. <i>Astrophysical Journal</i> , 2013 , 769, 40	4.7	30
85	Detecting Extrasolar Planets with Integral Field Spectroscopy. <i>Publications of the Astronomical Society of the Pacific</i> , 2006 , 118, 1144-1164	5	30
84	Detection of Solar-like Oscillations in the G5 Subgiant Π Her. <i>Astrophysical Journal</i> , 2008 , 676, 1248-1253	4.7	29
83	Accurate Mass Ratio and Heating Effects in the Dual-Line Millisecond Binary Pulsar in NGC 6397. <i>Astrophysical Journal</i> , 2003 , 584, L13-L16	4.7	29
82	Metallicities for Double-Mode RR Lyrae Stars in the Large Magellanic Cloud. <i>Astronomical Journal</i> , 2001 , 122, 207-219	4.9	29

81	The Complex H Line Profile of the Bright Companion to PSR J1740-5340 in NGC 6397. <i>Astrophysical Journal</i> , 2003 , 589, L41-L44	4-7	28
80	Chemical composition of evolved stars in the open cluster IC 4651?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 413, 2199-2206	4-3	27
79	Metal Abundances of RR Lyrae Stars in the Metal-rich Globular Cluster NGC 6441. <i>Astrophysical Journal</i> , 2005 , 630, L145-L148	4-7	27
78	The metal abundance distribution of the oldest stellar component in the Sculptor dwarf spheroidal galaxy?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 363, 734-748	4-3	27
77	Blobs, spiral arms, and a possible planet around HD 169142. <i>Astronomy and Astrophysics</i> , 2019 , 623, A140-1	5-1	26
76	Aluminium abundances in five discrete stellar populations of the globular cluster NGC 2808. <i>Astronomy and Astrophysics</i> , 2018 , 615, A17	5-1	26
75	Chemical composition of evolved stars in the open cluster NGC 2506. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 416, 1092-1098	4-3	26
74	FLUORINE VARIATIONS IN THE GLOBULAR CLUSTER NGC 6656 (M22): IMPLICATIONS FOR INTERNAL ENRICHMENT TIMESCALES. <i>Astrophysical Journal</i> , 2013 , 763, 22	4-7	23
73	FAST ROTATING BLUE STRAGGLERS IN THE GLOBULAR CLUSTER M4. <i>Astrophysical Journal Letters</i> , 2010 , 719, L121-L125	7-9	22
72	EPICS: the exoplanet imager for the E-ELT 2008 ,		21
71	LITHIUM ABUNDANCES IN GLOBULAR CLUSTER GIANTS: NGC 6218 (M12) AND NGC 5904 (M5). <i>Astrophysical Journal</i> , 2014 , 791, 39	4-7	20
70	CHEOPS/ZIMPOL: a VLT instrument study for the polarimetric search of scattered light from extrasolar planets 2004 ,		20
69	Photometric and spectroscopic study of the intermediate-age open cluster NGC 3960. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 366, 1493-1502	4-3	19
68	The search for extrasolar giant planets using integral field spectroscopy: Simulations. <i>New Astronomy Reviews</i> , 2006 , 49, 661-669	7-9	18
67	SPHERE: A planet finder instrument for the VLT 2006 ,		17
66	The EPICS project: Exoplanets detection with OWL. <i>Proceedings of the International Astronomical Union</i> , 2005 , 1, 507-512	0-1	17
65	RUBIDIUM ABUNDANCES IN THE GLOBULAR CLUSTERS NGC 6752, NGC 1904, AND NGC 104 (47 Tuc). <i>Astrophysical Journal</i> , 2013 , 776, 59	4-7	16
64	ON THE SERENDIPITOUS DISCOVERY OF A LI-RICH GIANT IN THE GLOBULAR CLUSTER NGC 362. <i>Astrophysical Journal Letters</i> , 2015 , 801, L32	7-9	15

63	Stellar photometry in the PHOENIX dwarf galaxy. <i>Publications of the Astronomical Society of the Pacific</i> , 1988 , 100, 1405	5	15
62	Spectroscopic hint of a cold stream in the direction of the globular cluster NGC 1851. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 426, 1137-1143	4.3	13
61	A stellar population synthesis approach to the Oosterhoff dichotomy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 444, 1862-1872	4.3	10
60	A sequence of nitrogen-rich very red giants in the globular cluster NGC 1851. <i>Astronomy and Astrophysics</i> , 2014 , 563, A32	5.1	9
59	2MASS J15491331-3539118: a new low-mass wide companion of the GQ Lup system. <i>Astronomy and Astrophysics</i> , 2020 , 635, L1	5.1	9
58	System study of EPICS: the exoplanets imager for the E-ELT 2010 ,		8
57	Infrared photometry of young massive clusters in the starburst galaxy NGC 4214?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 433, 1276-1286	4.3	7
56	Searching for the near-infrared counterpart of Proxima c using multi-epoch high-contrast SPHERE data at VLT. <i>Astronomy and Astrophysics</i> , 2020 , 638, A120	5.1	7
55	The SPHERE infrared survey for exoplanets (SHINE). <i>Astronomy and Astrophysics</i> , 2021 , 651, A70	5.1	7
54	A spectroscopic analysis of three supergiants. <i>Monthly Notices of the Royal Astronomical Society</i> , 1989 , 237, 1085-1097	4.3	6
53	A high-contrast search for variability in HR 8799bc with VLT-SPHERE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 743-767	4.3	6
52	HD 117214 debris disk: scattered-light images and constraints on the presence of planets. <i>Astronomy and Astrophysics</i> , 2020 , 635, A19	5.1	5
51	A Planet Finder instrument for the VLT. <i>Proceedings of the International Astronomical Union</i> , 2005 , 1, 317-322	0.1	5
50	CHEOPS NIR IFS: exploring stars neighborhood spectroscopically 2004 , 5492, 1351		4
49	Distances and Ages of Globular Clusters Using Hipparcos Parallaxes of Local Subdwarfs. <i>Astrophysics and Space Science Library</i> , 1999 , 89-110	0.3	4
48	The GAPS programme at TNG. <i>Astronomy and Astrophysics</i> , 2021 , 649, A29	5.1	4
47	Unveiling the star formation history of the Upper Scorpius association through its kinematics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 1381-1400	4.3	4
46	SHARK (System for coronagraphy with High order Adaptive optics from R to K band): a proposal for the LBT 2nd generation instrumentation 2014 ,		3

45	Resolved photometry of young massive clusters in the starburst galaxy NGC 4214?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 437, 1918-1929	4.3	3
44	Calibrating SPHERE, the exo-planet imager for the VLT 2009 ,		3
43	High-resolution spectropolarimetry at the Italian Telescopio Nazionale Galileo 2003 ,		3
42	The science case of the CHEOPS planet finder for VLT 2004 ,		3
41	Studies on the spectra of K-giants III. Abundance determinations for K-giants from very strong iron lines. <i>Monthly Notices of the Royal Astronomical Society</i> , 1983 , 202, 231-240	4.3	3
40	The origin of R CrA variability. <i>Astronomy and Astrophysics</i> , 2019 , 630, A132	5.1	3
39	K2 Targets Observed with SPHERE/VLT: An M4-7 Dwarf Companion Resolved around EPIC 206011496. <i>Astronomical Journal</i> , 2018 , 156, 182	4.9	3
38	A wide-orbit giant planet in the high-mass β Centauri binary system. <i>Nature</i> , 2021 , 600, 231-234	50.4	3
37	Spectroscopy of red giants in the globular cluster Terzan 8: kinematics and evidence for the surrounding Sagittarius stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 443, 1425-1432	4.3	2
36	On the frequency of planets in multiple systems: an update. <i>EAS Publications Series</i> , 2010 , 42, 105-108	0.2	2
35	Planet candidates from the SARG visual binary survey. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 403-404	0.1	2
34	The SPHERE exoplanet imager: status report at PDR 2007 ,		2
33	The oldest stars and the age of the Universe. <i>European Review</i> , 2002 , 10, 237-248	0.3	2
32	He-rich and He-poor populations in RGB stars. Results on a sample of 19 globular clusters. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 169-170	0.1	1
31	Open Clusters as tracers of the Galactic disk: the Bologna Open Clusters Chemical Evolution project. <i>Proceedings of the International Astronomical Union</i> , 2008 , 4, 227-232	0.1	1
30	Simulations versus observations obtained with simultaneous differential imaging 2004 ,		1
29	Simulations of exoplanets detection obtained with a high-contrast imaging instrument: CHEOPS 2004 ,		1
28	Simulations of 3D observations of exoplanets using OWL. <i>Proceedings of the International Astronomical Union</i> , 2005 , 1, 339-343	0.1	1

27	SPHERE on-sky performance compared with budget predictions 2016 ,		1
26	Spectroscopic studies of stellar populations in globular clusters and field stars: Implications for globular cluster and Milky Way halo formation. <i>Proceedings of the International Astronomical Union</i> , 2019 , 14, 241-250	0.1	1
25	Investigating three Sirius-like systems with SPHERE. <i>Astronomy and Astrophysics</i> , 2021 , 646, A61	5.1	1
24	Investigating point sources in MWC 758 with SPHERE. <i>Astronomy and Astrophysics</i> , 2021 , 652, L8	5.1	1
23	Science case for VLT-Planet Finder. <i>Proceedings of the International Astronomical Union</i> , 2005 , 1, 159-164	0.1	0
22	Dynamical masses for two M1 + mid-M dwarf binaries monitored during the SPHERE-SHINE survey. <i>Astronomy and Astrophysics</i> , 2022 , 658, A145	5.1	0
21	Characterization of very wide companion candidates to young stars with planets and disks. <i>Astronomy and Astrophysics</i> , 2020 , 644, A169	5.1	0
20	Quick-MESS: A fast statistical tool for Exoplanet Imaging Surveys. <i>Proceedings of the International Astronomical Union</i> , 2013 , 8, 28-29	0.1	
19	IRDIS, the dual-band imager camera of SPHERE: testing the performances in laboratory. <i>Proceedings of the International Astronomical Union</i> , 2013 , 8, 78-79	0.1	
18	Performance tests on the SPHERE-IFS. <i>Proceedings of the International Astronomical Union</i> , 2013 , 8, 54-55	0.1	
17	X-shooter GTO observations and chemical tagging of two main-sequence stars in the globular cluster NGC 2808. <i>Astronomische Nachrichten</i> , 2011 , 332, 258-259	0.7	
16	Line bisector analysis of stars with companions in the SARG survey at the TNG. <i>EAS Publications Series</i> , 2010 , 42, 137-141	0.2	
15	Clues on the frequency of giant planets in wide orbits. <i>EAS Publications Series</i> , 2010 , 41, 383-386	0.2	
14	The SARG Planet Search. <i>EAS Publications Series</i> , 2010 , 42, 117-124	0.2	
13	SPICES: A Mission Concept to Characterize Long Period Planets from Giants to Super-Earths. <i>Proceedings of the International Astronomical Union</i> , 2012 , 8, 429-434	0.1	
12	Science with EPICS, the E-ELT planet finder. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 343-348	0.1	
11	HD 17156 : a progress report. <i>Proceedings of the International Astronomical Union</i> , 2008 , 4, 420-423	0.1	
10	Abundances of Light Elements. <i>Space Science Reviews</i> , 2007 , 130, 43-52	7.5	

- 9 The Asiago Extrasolar Planet Transit Search. *Astrophysics and Space Science*, **2006**, 304, 251-251 1.6
- 8 Introducing the program Naaah (Na-O Anticorrelation And HB). *Proceedings of the International Astronomical Union*, **2005**, 1, 389-390 0.1
- 7 C-enhanced metal poor stars and AGB nucleosynthesis at low Z. *Proceedings of the International Astronomical Union*, **2005**, 1, 473-477 0.1
- 6 Observations of globular clusters with FLAMES. *Proceedings of the International Astronomical Union*, **2005**, 1, 357-362 0.1
- 5 A simulation code for AO assisted 3D spectroscopic imaging of extrasolar planets. *Proceedings of the International Astronomical Union*, **2005**, 1, 75-78 0.1
- 4 AO Assisted NIR 3D Spectroscopic Imaging [Can an ELT See the Earth at 10pc?]. *Proceedings of the International Astronomical Union*, **2005**, 1, 495-500 0.1
- 3 Searching for Planets Around Stars in Wide Binaries **2008**, 193-198
- 2 Observational Evidence for a Different IMF in the Early Galaxy. *Astrophysics and Space Science Library*, **2005**, 495-498 0.3
- 1 Chemical Abundances of Giants in Globular Clusters. *Thirty Years of Astronomical Discovery With UKIRT*, **2012**, 155-164 0.3