Raffaele G Gratton

List of Publications by Year in Descending Order

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	Dynamical masses for two M1 + mid-M dwarf binaries monitored during the SPHERE-SHINE survey. *Astronomy and Astrophysics*, **2022**, 658, A145	5.1	0
133	The GAPS programme at TNG. *Astronomy and Astrophysics*, **2021**, 649, A29	5.1	4
132	The SPHERE infrared survey for exoplanets (SHINE). *Astronomy and Astrophysics*, **2021**, 651, A70	5.1	7
131	Unveiling the star formation history of the Upper Scorpius association through its kinematics. *Monthly Notices of the Royal Astronomical Society*, **2021**, 507, 1381-1400	4.3	4
130	A high-contrast search for variability in HR 8799bc with VLT-SPHERE. *Monthly Notices of the Royal Astronomical Society*, **2021**, 503, 743-767	4.3	6
129	Investigating three Sirius-like systems with SPHERE. *Astronomy and Astrophysics*, **2021**, 646, A61	5.1	1
128	Investigating point sources in MWC 758 with SPHERE. *Astronomy and Astrophysics*, **2021**, 652, L8	5.1	1
127	A wide-orbit giant planet in the high-mass b Centauri binary system. *Nature*, **2021**, 600, 231-234	50.4	3
126	HD 117214 debris disk: scattered-light images and constraints on the presence of planets. *Astronomy and Astrophysics*, **2020**, 635, A19	5.1	5
125	Characterization of very wide companion candidates to young stars with planets and disks. *Astronomy and Astrophysics*, **2020**, 644, A169	5.1	0
124	Searching for the near-infrared counterpart of Proxima c using multi-epoch high-contrast SPHERE data at VLT. *Astronomy and Astrophysics*, **2020**, 638, A120	5.1	7
123	2MASS J15491331-3539118: a new low-mass wide companion of the GQ Lup system. *Astronomy and Astrophysics*, **2020**, 635, L1	5.1	9
122	Blobs, spiral arms, and a possible planet around HD 169142. *Astronomy and Astrophysics*, **2019**, 623, A140	5.1	26
121	What is a globular cluster? An observational perspective. *Astronomy and Astrophysics Review*, **2019**, 27, 1	28.8	71
120	Spectroscopic studies of stellar populations in globular clusters and field stars: Implications for globular cluster and Milky Way halo formation. *Proceedings of the International Astronomical Union*, **2019**, 14, 241-250	0.1	1
119	The origin of R CrA variability. *Astronomy and Astrophysics*, **2019**, 630, A132	5.1	3
118	SPHERE: the exoplanet imager for the Very Large Telescope. *Astronomy and Astrophysics*, **2019**, 631, A155	5.1	182

117	Aluminium abundances in five discrete stellar populations of the globular cluster NGC 2808. *Astronomy and Astrophysics*, **2018**, 615, A17	5.1	26
116	K2 Targets Observed with SPHERE/VLT: An M4-7 Dwarf Companion Resolved around EPIC 206011496. *Astronomical Journal*, **2018**, 156, 182	4.9	3
115	SPHERE on-sky performance compared with budget predictions **2016**,		1
114	Lithium abundances in globular cluster giants: NGC 1904, NGC 2808, and NGC 362?. *Monthly Notices of the Royal Astronomical Society*, **2015**, 449, 4038-4047	4.3	35
113	COORDINATED X-RAY AND OPTICAL OBSERVATIONS OF STAR□PLANET INTERACTION IN HD 17156. *Astrophysical Journal Letters*, **2015**, 811, L2	7.9	45
112	ON THE SERENDIPITOUS DISCOVERY OF A Li-RICH GIANT IN THE GLOBULAR CLUSTER NGC 362. *Astrophysical Journal Letters*, **2015**, 801, L32	7.9	15
111	SHARK (System for coronagraphy with High order Adaptive optics from R to K band): a proposal for the LBT 2nd generation instrumentation **2014**,		3
110	A stellar population synthesis approach to the Oosterhoff dichotomy. *Monthly Notices of the Royal Astronomical Society*, **2014**, 444, 1862-1872	4.3	10
109	Spectroscopy of red giants in the globular cluster Terzan 8: kinematics and evidence for the surrounding Sagittarius stream. *Monthly Notices of the Royal Astronomical Society*, **2014**, 443, 1425-1432	4.3	2
108	Resolved photometry of young massive clusters in the starburst galaxy NGC 4214?. *Monthly Notices of the Royal Astronomical Society*, **2014**, 437, 1918-1929	4.3	3
107	LITHIUM ABUNDANCES IN GLOBULAR CLUSTER GIANTS: NGC 6218 (M12) AND NGC 5904 (M5). *Astrophysical Journal*, **2014**, 791, 39	4.7	20
106	THE METALLICITY SPREAD AND THE AGE-METALLICITY RELATION OF □CENTAURI. *Astrophysical Journal*, **2014**, 791, 107	4.7	56
105	SEARCHING FOR CHEMICAL SIGNATURES OF MULTIPLE STELLAR POPULATIONS IN THE OLD, MASSIVE OPEN CLUSTER NGC 6791. *Astrophysical Journal*, **2014**, 796, 68	4.7	57
104	A sequence of nitrogen-rich very red giants in the globular cluster NGC 1851. *Astronomy and Astrophysics*, **2014**, 563, A32	5.1	9
103	Infrared photometry of young massive clusters in the starburst galaxy NGC□4214?. *Monthly Notices of the Royal Astronomical Society*, **2013**, 433, 1276-1286	4.3	7
102	RUBIDIUM ABUNDANCES IN THE GLOBULAR CLUSTERS NGC 6752, NGC 1904, AND NGC 104 (47 Tuc). *Astrophysical Journal*, **2013**, 776, 59	4.7	16
101	POTASSIUM IN GLOBULAR CLUSTER STARS: COMPARING NORMAL CLUSTERS TO THE PECULIAR CLUSTER NGC 2419. *Astrophysical Journal*, **2013**, 769, 40	4.7	30
100	Quick-MESS: A fast statistical tool for Exoplanet Imaging Surveys. *Proceedings of the International Astronomical Union*, **2013**, 8, 28-29	0.1	

99	IRDIS, the dual-band imager camera of SPHERE: testing the performances in laboratory. *Proceedings of the International Astronomical Union*, **2013**, 8, 78-79	0.1	
98	Performance tests on the SPHERE-IFS. *Proceedings of the International Astronomical Union*, **2013**, 8, 54-55	0.1	
97	FLUORINE VARIATIONS IN THE GLOBULAR CLUSTER NGC 6656 (M22): IMPLICATIONS FOR INTERNAL ENRICHMENT TIMESCALES. *Astrophysical Journal*, **2013**, 763, 22	4.7	23
96	The chemical composition of nearby young associations: s-process element abundances in AB Doradus, Carina-Near and Ursa Major. *Monthly Notices of the Royal Astronomical Society*, **2012**, 423, 2789-2799	4.3	42
95	Multiple populations in globular clusters. *Astronomy and Astrophysics Review*, **2012**, 20, 1	28.8	538
94	THE GRAY NEEDLE: LARGE GRAINS IN THE HD 15115 DEBRIS DISK FROM LBT/PISCES/KsAND LBTI /LMIRcam/L? ADAPTIVE OPTICS IMAGING. *Astrophysical Journal*, **2012**, 752, 57	4.7	43
93	FIRST LIGHT LBT AO IMAGES OF HR 8799 bcde AT 1.6 AND 3.3 μm: NEW DISCREPANCIES BETWEEN YOUNG PLANETS AND OLD BROWN DWARFS. *Astrophysical Journal*, **2012**, 753, 14	4.7	132
92	CHEMICAL AND KINEMATICAL PROPERTIES OF BLUE STRAGGLER STARS AND HORIZONTAL BRANCH STARS IN NGC 6397. *Astrophysical Journal*, **2012**, 754, 91	4.7	37
91	Spectroscopic hint of a cold stream in the direction of the globular cluster NGC 1851. *Monthly Notices of the Royal Astronomical Society*, **2012**, 426, 1137-1143	4.3	13
90	SPICES: spectro-polarimetric imaging and characterization of exoplanetary systems. *Experimental Astronomy*, **2012**, 34, 355-384	1.3	34
89	SPICES: A Mission Concept to Characterize Long Period Planets from Giants to Super-Earths. *Proceedings of the International Astronomical Union*, **2012**, 8, 429-434	0.1	
88	CHEMICAL TAGGING OF THREE DISTINCT POPULATIONS OF RED GIANTS IN THE GLOBULAR CLUSTER NGC 6752. *Astrophysical Journal Letters*, **2012**, 750, L14	7.9	61
87	THE HELIUM CONTENT OF GLOBULAR CLUSTERS: NGC 6121 (M4). *Astrophysical Journal*, **2012**, 748, 62	4.7	68
86	Chemical Abundances of Giants in Globular Clusters. *Thirty Years of Astronomical Discovery With UKIRT*, **2012**, 155-164	0.3	
85	SODIUM–OXYGEN ANTICORRELATION AND NEUTRON-CAPTURE ELEMENTS IN OMEGA CENTAURI STELLAR POPULATIONS. *Astrophysical Journal*, **2011**, 731, 64	4.7	121
84	Lithium abundance in the globular cluster M4: from the turn-off to the red giant branch bump?. *Monthly Notices of the Royal Astronomical Society*, **2011**, 412, 81-94	4.3	69
83	Chemical composition of evolved stars in the open cluster IC 4651?. *Monthly Notices of the Royal Astronomical Society*, **2011**, 413, 2199-2206	4.3	27
82	Chemical composition of evolved stars in the open cluster NGC 2506. *Monthly Notices of the Royal Astronomical Society*, **2011**, 416, 1092-1098	4.3	26

81	X-shooter GTO observations and chemical tagging of two main-sequence stars in the globular cluster NGC 2808. *Astronomische Nachrichten*, **2011**, 332, 258-259	0.7	
80	Chemical composition of clump stars in the open cluster NGC 6134?. *Monthly Notices of the Royal Astronomical Society*, **2010**, 407, 1866-1874	4.3	41
79	Line bisector analysis of stars with companions in the SARG survey at the TNG. *EAS Publications Series*, **2010**, 42, 137-141	0.2	
78	On the frequency of planets in multiple systems: an update. *EAS Publications Series*, **2010**, 42, 105-108	0.2	2
77	Clues on the frequency of giant planets in wide orbits. *EAS Publications Series*, **2010**, 41, 383-386	0.2	
76	The SARG Planet Search. *EAS Publications Series*, **2010**, 42, 117-124	0.2	
75	System study of EPICS: the exoplanets imager for the E-ELT **2010**,		8
74	CALCIUM AND LIGHT-ELEMENTS ABUNDANCE VARIATIONS FROM HIGH-RESOLUTION SPECTROSCOPY IN GLOBULAR CLUSTERS. *Astrophysical Journal Letters*, **2010**, 712, L21-L25	7.9	64
73	Planet candidates from the SARG visual binary survey. *Proceedings of the International Astronomical Union*, **2010**, 6, 403-404	0.1	2
72	Science with EPICS, the E-ELT planet finder. *Proceedings of the International Astronomical Union*, **2010**, 6, 343-348	0.1	
71	EPICS: direct imaging of exoplanets with the E-ELT **2010**,		35
70	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. *Astrophysical Journal Letters*, **2010**, 720, L41-L45	7.9	65
69	LITHIUM AND PROTON-CAPTURE ELEMENTS IN GLOBULAR CLUSTER DWARFS: THE CASE OF 47 TUC. *Astrophysical Journal Letters*, **2010**, 713, L1-L5	7.9	48
68	ABUNDANCES FOR A LARGE SAMPLE OF RED GIANTS IN NGC 1851: HINTS FOR A MERGER OF TWO CLUSTERS?. *Astrophysical Journal Letters*, **2010**, 722, L1-L6	7.9	97
67	M54 + SAGITTARIUS = CENTAURI. *Astrophysical Journal Letters*, **2010**, 714, L7-L11	7.9	112
66	Ba STARS AND OTHER BINARIES IN FIRST AND SECOND GENERATION STARS IN GLOBULAR CLUSTERS. *Astrophysical Journal Letters*, **2010**, 719, L213-L217	7.9	55
65	FAST ROTATING BLUE STRAGGLERS IN THE GLOBULAR CLUSTER M4. *Astrophysical Journal Letters*, **2010**, 719, L121-L125	7.9	22
64	Calibrating SPHERE, the exo-planet imager for the VLT **2009**,		3

63	BIGRE: A LOW CROSS-TALK INTEGRAL FIELD UNIT TAILORED FOR EXTRASOLAR PLANETS IMAGING SPECTROSCOPY. *Astrophysical Journal*, **2009**, 695, 1042-1057	4.7	46
62	He-rich and He-poor populations in RGB stars. Results on a sample of 19 globular clusters. *Proceedings of the International Astronomical Union*, **2009**, 5, 169-170	0.1	1
61	EPICS: the exoplanet imager for the E-ELT **2008**,		21
60	SPHERE: a Planet FinderInstrument for the VLT **2008**,		258
59	SPHERE ZIMPOL: overview and performance simulation **2008**,		42
58	Open Clusters as tracers of the Galactic disk: the Bologna Open Clusters Chemical Evolution project. *Proceedings of the International Astronomical Union*, **2008**, 4, 227-232	0.1	1
57	HD 17156 : a progress report. *Proceedings of the International Astronomical Union*, **2008**, 4, 420-423	0.1	
56	Detection of Solar-like Oscillations in the G5 Subgiant Her. *Astrophysical Journal*, **2008**, 676, 1248-1253	4.7	29
55	Searching for Planets Around Stars in Wide Binaries **2008**, 193-198		
54	Abundances of Light Elements. *Space Science Reviews*, **2007**, 130, 43-52	7.5	
53	The SPHERE exoplanet imager: status report at PDR **2007**,		2
52	The Link between Chemical Anomalies along the Red Giant Branch and the Horizontal Branch Extension in Globular Clusters. *Astrophysical Journal*, **2007**, 671, L125-L128	4.7	41
51	The Multiplicity of the Subgiant Branch of Centauri: Evidence for Prolonged Star Formation. *Astrophysical Journal*, **2007**, 663, 296-314	4.7	156
50	Detecting Extrasolar Planets with Integral Field Spectroscopy. *Publications of the Astronomical Society of the Pacific*, **2006**, 118, 1144-1164	5	30
49	SPHERE: A planet finder instrument for the VLT **2006**,		17
48	The Metallicity of the Old Open Cluster NGC 6791. *Astrophysical Journal*, **2006**, 642, 462-469	4.7	74
47	Discovery of Carbon/Oxygen-depleted Blue Straggler Stars in 47 Tucanae: The Chemical Signature of a Mass Transfer Formation Process. *Astrophysical Journal*, **2006**, 647, L53-L56	4.7	94
46	Photometric and spectroscopic study of the intermediate-age open cluster NGC 3960. *Monthly Notices of the Royal Astronomical Society*, **2006**, 366, 1493-1502	4.3	19

45	The search for extrasolar giant planets using integral field spectroscopy: Simulations. *New Astronomy Reviews*, **2006**, 49, 661-669	7.9	18
44	The Asiago Extrasolar Planet Transit Search. *Astrophysics and Space Science*, **2006**, 304, 251-251	1.6	
43	Observational Evidence for a Different Initial Mass Function in the Early Galaxy. *Astrophysical Journal*, **2005**, 625, 833-837	4.7	70
42	Metallicities on the Double Main Sequence of ω Centauri Imply Large Helium Enhancement. *Astrophysical Journal*, **2005**, 621, 777-784	4.7	368
41	The Binary Frequency Among Carbon-enhanced,s-Process-rich, Metal-poor Stars. *Astrophysical Journal*, **2005**, 625, 825-832	4.7	230
40	Metal Abundances of RR Lyrae Stars in the Metal-rich Globular Cluster NGC 6441. *Astrophysical Journal*, **2005**, 630, L145-L148	4.7	27
39	Introducing the program Naaah (Na-O Anticorrelation And HB). *Proceedings of the International Astronomical Union*, **2005**, 1, 389-390	0.1	
38	C-enhanced metal poor stars and AGB nucleosynthesis at low Z. *Proceedings of the International Astronomical Union*, **2005**, 1, 473-477	0.1	
37	Science case for VLT-Planet Finder. *Proceedings of the International Astronomical Union*, **2005**, 1, 159-164	0.1	0
36	Observations of globular clusters with FLAMES. *Proceedings of the International Astronomical Union*, **2005**, 1, 357-362	0.1	
35	Simulations of 3D observations of exoplanets using OWL. *Proceedings of the International Astronomical Union*, **2005**, 1, 339-343	0.1	1
34	A simulation code for AO assisted 3D spectroscopic imaging of extrasolar planets. *Proceedings of the International Astronomical Union*, **2005**, 1, 75-78	0.1	
33	A Planet Finder instrument for the VLT. *Proceedings of the International Astronomical Union*, **2005**, 1, 317-322	0.1	5
32	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	
31	The EPICS project: Exoplanets detection with OWL. *Proceedings of the International Astronomical Union*, **2005**, 1, 507-512	0.1	17
30	The metal abundance distribution of the oldest stellar component in the Sculptor dwarf spheroidal galaxy?. *Monthly Notices of the Royal Astronomical Society*, **2005**, 363, 734-748	4.3	27
29	Observational Evidence for a Different IMF in the Early Galaxy. *Astrophysics and Space Science Library*, **2005**, 495-498	0.3	
28	CHEOPS/ZIMPOL: a VLT instrument study for the polarimetric search of scattered light from extrasolar planets **2004**,		20

27	Abundance Variations within Globular Clusters. *Annual Review of Astronomy and Astrophysics*, **2004**, 42, 385-440	31.7	659
26	Simulations versus observations obtained with simultaneous differential imaging **2004**,		1
25	CHEOPS NIR IFS: exploring stars neighborhood spectroscopically **2004**, 5492, 1351		4
24	The science case of the CHEOPS planet finder for VLT **2004**,		3
23	Simulations of exoplanets detection obtained with a high-contrast imaging instrument: CHEOPS **2004**,		1
22	High-resolution spectropolarimetry at the Italian Telescopio Nazionale Galileo **2003**,		3
21	The Complex H Line Profile of the Bright Companion to PSR J1740-5340 in NGC 6397. *Astrophysical Journal*, **2003**, 589, L41-L44	4.7	28
20	Distance to the Large Magellanic Cloud: The RR Lyrae Stars. *Astronomical Journal*, **2003**, 125, 1309-1329	4.9	187
19	Accurate Mass Ratio and Heating Effects in the Dual-Line Millisecond Binary Pulsar in NGC 6397. *Astrophysical Journal*, **2003**, 584, L13-L16	4.7	29
18	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 0024−2523. *Astronomical Journal*, **2003**, 125, 875-893	4.9	108
17	The oldest stars and the age of the Universe. *European Review*, **2002**, 10, 237-248	0.3	2
16	Stellar Archaeology: A Keck Pilot Program on Extremely Metal-poor Stars from the Hamburg/ESO Survey. I. Stellar Parameters. *Astronomical Journal*, **2002**, 124, 470-480	4.9	41
15	Stellar Archaeology: A Keck Pilot Program on Extremely Metal-poor Stars from the Hamburg/ESO Survey. II. Abundance Analysis. *Astronomical Journal*, **2002**, 124, 481-506	4.9	116
14	An Abundance Analysis for Four Red Horizontal-Branch Stars in the Extremely Metal-Rich Globular Cluster NGC 6528. *Astronomical Journal*, **2001**, 122, 1469-1485	4.9	105
13	SARG: The High Resolution Spectrograph of TNG. *Experimental Astronomy*, **2001**, 12, 107-143	1.3	51
12	Predictions for Self-Pollution in Globular Cluster Stars. *Astrophysical Journal*, **2001**, 550, L65-L69	4.7	351
11	Metal Abundances of Red Clump Stars in Open Clusters. I. NGC 6819. *Astronomical Journal*, **2001**, 121, 327-336	4.9	150
10	Lead: Asymptotic Giant Branch Production and Galactic Chemical Evolution. *Astrophysical Journal*, **2001**, 549, 346-352	4.7	97

9	Metallicities for Double-Mode RR Lyrae Stars in the Large Magellanic Cloud. *Astronomical Journal*, **2001**, 122, 207-219	4.9	29
8	Distances, Ages, and Epoch of Formation of Globular Clusters. *Astrophysical Journal*, **2000**, 533, 215-235	4.7	291
7	An Abundance Analysis for Five Red Horizontal-Branch Stars in the Extremely Metal-rich Globular Cluster NGC 6553. *Astrophysical Journal*, **1999**, 523, 739-751	4.7	79
6	Distances and Ages of Globular Clusters Using Hipparcos Parallaxes of Local Subdwarfs. *Astrophysics and Space Science Library*, **1999**, 89-110	0.3	4
5	The absolute magnitude of field metal-poor horizontal branch stars. *Monthly Notices of the Royal Astronomical Society*, **1998**, 296, 739-745	4.3	51
4	Ages of Globular Clusters fromHIPPARCOSParallaxes of Local Subdwarfs. *Astrophysical Journal*, **1997**, 491, 749-771	4.7	244
3	A spectroscopic analysis of three supergiants. *Monthly Notices of the Royal Astronomical Society*, **1989**, 237, 1085-1097	4.3	6
2	Stellar photometry in the PHOENIX dwarf galaxy. *Publications of the Astronomical Society of the Pacific*, **1988**, 100, 1405	5	15
1	Studies on the spectra of K-giants II. Abundance determinations for K-giants from very strong iron lines. *Monthly Notices of the Royal Astronomical Society*, **1983**, 202, 231-240	4.3	3