

Roberto Gallino

List of Publications by Citations

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53
papers

6,123
citations

36
h-index

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g-index

55
ext. papers

6,561
ext. citations

6.3
avg, IF

5.18
L-index

#	Paper	IF	Citations
53	Neutron Capture in Low-Mass Asymptotic Giant Branch Stars: Cross Sections and Abundance Signatures. <i>Astrophysical Journal</i> , 1999 , 525, 886-900	4.7	675
52	Evolution and Nucleosynthesis in Low-Mass Asymptotic Giant Branch Stars. II. Neutron Capture and the s-Process. <i>Astrophysical Journal</i> , 1998 , 497, 388-403	4.7	617
51	Neutron-Capture Elements in the Early Galaxy. <i>Annual Review of Astronomy and Astrophysics</i> , 2008 , 46, 241-288	31.7	597
50	Galactic Evolution of Sr, Y, and Zr: A Multiplicity of Nucleosynthetic Processes. <i>Astrophysical Journal</i> , 2004 , 601, 864-884	4.7	441
49	Nucleosynthesis and Mixing on the Asymptotic Giant Branch. III. Predicted and Observed s-Process Abundances. <i>Astrophysical Journal</i> , 2001 , 557, 802-821	4.7	331
48	Galactic Chemical Evolution of Heavy Elements: From Barium to Europium. <i>Astrophysical Journal</i> , 1999 , 521, 691-702	4.7	219
47	The Chemical Evolution of the Globular Cluster ω Centauri (NGC 5139). <i>Astronomical Journal</i> , 2000 , 119, 1239-1258	4.9	203
46	Evolution and Nucleosynthesis in Low-Mass Asymptotic Giant Branch Stars. I. Formation of Population I Carbon Stars. <i>Astrophysical Journal</i> , 1997 , 478, 332-339	4.7	194
45	s process in low-mass asymptotic giant branch stars. <i>Nuclear Physics A</i> , 2006 , 777, 311-339	1.3	182
44	Isotopic Compositions of Strontium, Zirconium, Molybdenum, and Barium in Single Presolar SiC Grains and Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2003 , 593, 486-508	4.7	161
43	Near-Ultraviolet Observations of HD 221170: New Insights into the Nature of r-Process-rich Stars. <i>Astrophysical Journal</i> , 2006 , 645, 613-633	4.7	152
42	Aluminum-, Calcium- and Titanium-rich Oxide Stardust in Ordinary Chondrite Meteorites. <i>Astrophysical Journal</i> , 2008 , 682, 1450-1478	4.7	143
41	Low-Density Graphite Grains and Mixing in Type II Supernovae. <i>Astrophysical Journal</i> , 1999 , 510, 325-354	4.7	142
40	s-Process Nucleosynthesis in Asymptotic Giant Branch Stars: A Test for Stellar Evolution. <i>Astrophysical Journal</i> , 2003 , 586, 1305-1319	4.7	139
39	Presolar corundum and spinel in ordinary chondrites: origins from AGB stars and a supernova. <i>Science</i> , 1998 , 282, 1284-9	33.3	137
38	The Chemical Composition of Red Giants. IV. The Neutron Density at the s-Process Site. <i>Astrophysical Journal</i> , 1995 , 450, 302	4.7	114
37	Silicon and Carbon Isotopic Ratios in AGB Stars: SiC Grain Data, Models, and the Galactic Evolution of the Si Isotopes. <i>Astrophysical Journal</i> , 2006 , 650, 350-373	4.7	105

36	Lead: Asymptotic Giant Branch Production and Galactic Chemical Evolution. <i>Astrophysical Journal</i> , 2001 , 549, 346-352	4.7	97
35	Oxygen isotopes in circumstellar Al ₂ O ₃ grains from meteorites and stellar nucleosynthesis. <i>Astrophysical Journal</i> , 1994 , 430, L81	4.7	91
34	Presolar SiC Grains of Type Y: Origin from Low-Metallicity Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2001 , 546, 248-266	4.7	90
33	Si Isotopic Ratios in Mainstream Presolar SiC Grains Revisited. <i>Astrophysical Journal</i> , 1999 , 527, 369-394	4.7	84
32	Near-Ultraviolet Observations of CS 29497-030: New Constraints on Neutron-Capture Nucleosynthesis Processes. <i>Astrophysical Journal</i> , 2005 , 627, L145-L148	4.7	80
31	CS 22964-61: A Double-Lined Carbon- and s-Process-Enhanced Metal-Poor Binary Star. <i>Astrophysical Journal</i> , 2008 , 677, 556-571	4.7	79
30	NanoSIMS isotopic analysis of small presolar grains: Search for Si ₃ N ₄ grains from AGB stars and Al and Ti isotopic compositions of rare presolar SiC grains. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 4786-4813	5.5	77
29	Oxygen, magnesium and chromium isotopic ratios of presolar spinel grains. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4149-4165	5.5	77
28	Tungsten Nuclear Anomalies in Planetesimal Cores. <i>Astrophysical Journal</i> , 2008 , 674, 1234-1241	4.7	70
27	Extinct technetium in silicon carbide stardust grains: implications for stellar nucleosynthesis. <i>Science</i> , 2004 , 303, 649-52	33.3	68
26	Barium isotopes in individual presolar silicon carbide grains from the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 3201-3214	5.5	65
25	The puzzle of silicon, titanium, and magnesium anomalies in meteoritic silicon carbide grains. <i>Astrophysical Journal</i> , 1994 , 430, 858	4.7	64
24	BARIUM ISOTOPIC COMPOSITION OF MAINSTREAM SILICON CARBIDES FROM MURCHISON: CONSTRAINTS FOR s-PROCESS NUCLEOSYNTHESIS IN ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2014 , 786, 66	4.7	52
23	CORRELATED STRONTIUM AND BARIUM ISOTOPIC COMPOSITIONS OF ACID-CLEANED SINGLE MAINSTREAM SILICON CARBIDES FROM MURCHISON. <i>Astrophysical Journal</i> , 2015 , 803, 12	4.7	49
22	Iron and Nickel Isotopic Ratios in Presolar SiC Grains. <i>Astrophysical Journal</i> , 2008 , 689, 622-645	4.7	49
21	Presolar He and Ne Isotopes in Single Circumstellar SiC Grains. <i>Astrophysical Journal</i> , 2007 , 656, 1208-1227	4.7	44
20	The Hobby-Eberly Telescope Chemical Abundances of Stars in the Halo (CASH) Project. I. The Lithium-, s-, and r-enhanced Metal-poor Giant HKII 17435-0532. <i>Astrophysical Journal</i> , 2008 , 679, 1549-1565	4.7	43
19	Cosmological Implications of Dwarf Spheroidal Chemical Evolution. <i>Astrophysical Journal</i> , 2006 , 646, 184-191	4.7	39

18	Neutron capture nucleosynthesis in AGB stars 1997 ,		38
17	SULFUR ISOTOPIC COMPOSITIONS OF SUBMICROMETER SiC GRAINS FROM THE MURCHISON METEORITE. <i>Astrophysical Journal</i> , 2015 , 799, 156	4-7	35
16	THE ¹³ C-POCKET STRUCTURE IN AGB MODELS: CONSTRAINTS FROM ZIRCONIUM ISOTOPE ABUNDANCES IN SINGLE MAINSTREAM SiC GRAINS. <i>Astrophysical Journal</i> , 2014 , 788, 163	4-7	32
15	Presolar graphite from the Murchison meteorite: An isotopic study. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 133, 479-522	5-5	27
14	Galactic Chemical Evolution of the s Process from AGB Stars. <i>Publications of the Astronomical Society of Australia</i> , 2009 , 26, 153-160	5-5	25
13	New Stellar Sources for High-Density, Presolar Graphite Grains. <i>Astrophysical Journal</i> , 2008 , 682, 1479-1485	4-7	24
12	Multi-element isotopic analyses of presolar graphite grains from Orgueil. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 113, 193-224	5-5	23
11	Carbon-enhanced Metal-poor Stars: Osmium and Iridium Abundances in the Neutron-Capture-enhanced Subgiants CS 31062-050 and LP 625-44. <i>Astrophysical Journal</i> , 2006 , 650, L127-L130	4-7	23
10	Barium Stars: Theoretical Interpretation. <i>Publications of the Astronomical Society of Australia</i> , 2009 , 26, 176-183	5-5	22
9	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 221, 87-108	5-5	20
8	Interpretation of CEMP(s) and CEMP(s + r) Stars with AGB Models. <i>Publications of the Astronomical Society of Australia</i> , 2009 , 26, 314-321	5-5	20
7	Germanium Production in Asymptotic Giant Branch Stars: Implications for Observations of Planetary Nebulae. <i>Astrophysical Journal</i> , 2007 , 656, L73-L76	4-7	19
6	New Constraints on the Major Neutron Source in Low-mass AGB Stars. <i>Astrophysical Journal</i> , 2018 , 865, 112	4-7	19
5	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins. <i>Astrophysical Journal</i> , 2019 , 881, 28	4-7	14
4	Abundances of Post-iron-Peak Elements in HD 35155: A Symbiotic Star of Spectral Type S. <i>Astrophysical Journal</i> , 2003 , 587, 384-389	4-7	7
3	On the origin of high-density graphite grains from the Murchison meteorite 2012 ,		2
2	Heavy Element Abundances in Presolar Silicon Carbide Grains from Low-Metallicity AGB Stars. <i>Publications of the Astronomical Society of Australia</i> , 2009 , 26, 284-288	5-5	2
1	Constraints on the Nature of the s- and r-processes. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 46-53	0-1	1

