

GUILLERMO GONZALEZ

REFEREED PUBLICATIONS IN PRINT

1. G. Gonzalez and K. H. Schatten, "Using Geomagnetic Indices to Forecast the Next Sunspot Maximum," *Solar Physics*, **114**, 189 (1987).
2. G. Gonzalez and G. Wallerstein, "An Abundance Analysis of ROA 24, a likely Post-AGB Star in Omega Centauri," *Monthly Notices of the Royal Astronomical Society*, **254**, 343 (1992).
3. G. Gonzalez and F. Piché, "Washington Photometry of Nearby of F, G, and K Dwarfs," *Astronomical Journal*, **103**, 2048 (1992).
4. B. Balick, G. Gonzalez, A. Frank, and G. Jacoby, "Faint Haloes and Historical Mass Ejection in Planetary Nebulae," *Astrophysical Journal*, **392**, 582 (1992).
5. G. Wallerstein, E. Böhm-Vitense, A. D. Vanture, and G. Gonzalez, "The Lithium Content and other Properties of F2-G5 Giants in the Hertzsprung Gap," *Astronomical Journal*, **107**, 2211 (1994).
6. G. Gonzalez, "A Photometric Study of the UV-Bright Stars in ω Cen," *Astronomical Journal*, **108**, 1312 (1994).
7. G. Gonzalez and G. Wallerstein, "Study of the UV-Bright Stars in ω Cen II. Abundances and Evidence for Evolutionary Mixing," *Astronomical Journal*, **108**, 1325 (1994).
8. G. Gonzalez and D. L. Lambert, "A Fine Abundance Analysis of Four Stars in the α Per Cluster - A Cautionary Tale," *Astronomical Journal*, **111**, 424 (1996).
9. G. Gonzalez and G. Wallerstein, "ST Pup: A Binary Type II Cepheid with a Peculiar Chemical Composition," *Monthly Notices of the Royal Astronomical Society*, **280**, 515 (1996).
10. G. Wallerstein and G. Gonzalez, "V553 Cen - Evidence of Triple- α and CNO cycling," *Monthly Notices of the Royal Astronomical Society*, **282**, 1236 (1996).
11. G. Gonzalez, "Ground-Level Humidity, Pressure, and Temperature Measurements During the October 24, 1995 Total Solar Eclipse," *Kodaikanal Observatory Bulletins*, **13**, 151 (1997).
12. G. Gonzalez, "The Stellar Metallicity - Giant Planet Connection," *Monthly Notices of the Royal Astronomical Society*, **285**, 403 (1997).
13. G. Gonzalez, D. L. Lambert, and S. Giridhar, "Abundance Analyses of the Field RV Tauri Variables: EP Lyrae, DY Orionis, AR Puppis, and R Sagittae," *Astrophysical Journal*, **479**, 427 (1997).

REFEREED PUBLICATIONS IN PRINT (cont.)

14. G. Gonzalez, D. L. Lambert, and S. Giridhar, "Abundance Analyses of the Field RV Tauri Variables III: DY Aquilae, SS Geminorum, CT Orionis, and CE Virginis," *Astrophysical Journal*, **481**, 452 (1997).
15. G. Gonzalez and D. L. Lambert, "Abundance Analyses of Type II Cepheids in Globular Clusters," *Astronomical Journal*, **114**, 341 (1997).
16. A. Goswami, N. K. Rao, D. L. Lambert, and G. Gonzalez, "On the Hydrogen-Deficient Nature of Z Ursae Majoris," *Publications of the Astronomical Society of the Pacific*, **109**, 796 (1997).
17. B. E. Reddy, M. Parthasarathy, G. Gonzalez, and E. J. Bakker, "The Chemical Composition of IRAS 05341+0852: a Post-AGB F Supergiant with 21 μ m Emission," *Astronomy & Astrophysics*, **328**, 331 (1997).
18. G. Gonzalez, D. L. Lambert, G. Wallerstein, N. K. Rao, V. V. Smith, and J. K. McCarthy, "FG Sge - A Newborn R CrB Star?," *Astrophysical Journal Supplement*, **114**, 133 (1998).
19. G. Gonzalez, "Spectroscopic Analyses of the Parent Stars of Extrasolar Planetary System Candidates," *Astronomy & Astrophysics*, **334**, 221 (1998).
20. E. J. Bakker, D. L. Lambert, H. van Winckel, J. K. McCarthy, C. Waelkens, and G. Gonzalez, "Spectra Variability of the Binary HR 4049," *Astronomy & Astrophysics*, **336**, 263 (1998).
21. S. Giridhar, D. L. Lambert, and G. Gonzalez, "The Chemical Compositions of the SRd Variable Stars - I, XY Aquarii, RX Cephei, AB Leonis, and SV Ursae Majoris," *Publications of the Astronomical Society of the Pacific*, **110**, 671 (1998).
22. G. Gonzalez and G. Wallerstein, "Elemental Abundances in Giants in NGC 3201, a Globular Cluster with a Retrograde Orbit," *Astronomical Journal*, **116**, 765 (1998).
23. G. Gonzalez and A. D. Vanture, "Parent Stars of Extrasolar Planets III: ρ^1 Cancri Revisited," *Astronomy & Astrophysics*, **339**, L29 (1998).
24. B. W. Carney, A. M. Fry, G. Gonzalez, "Lithium and r-Process Abundances in the Population II Cepheid M5 V42," *Astronomical Journal*, **116**, 2984 (1998).
25. S. Giridhar, D. L. Lambert, and G. Gonzalez, "Abundance Analyses of Field RV Tauri Stars, IV: AD Aquilae, DS Aquarii, V360 Cygni, AC Herculis, and V453 Ophiuchi," *Astrophysical Journal*, **509**, 366 (1998).

REFEREED PUBLICATIONS IN PRINT (cont.)

26. G. Gonzalez, G. Wallerstein, and S. H. Saar, "Parent Stars of Extrasolar Planets IV: 14 Herculis, HD 187123, and HD 210277," *Astrophysical Journal Letters*, **511**, L111 (1999).
27. G. Wallerstein, L. Machado-Pelaez, and G. Gonzalez, "The Ca II - M_V Correlation (Wilson-Bappu Effect) Calibrated by *Hipparcos* Parallaxes," *Publications of the Astronomical Society of the Pacific*, **111**, 335 (1999).
28. G. Gonzalez and G. Wallerstein, "Elemental Abundances in Evolved Supergiants I: NGC 330, a Young SMC Cluster," *Astronomical Journal*, **117**, 2286 (1999).
29. G. Gonzalez, "Are Stars with Planets Anomalous?," *Monthly Notices of the Royal Astronomical Society*, **308**, 447 (1999).
30. A. D. Vanture and G. Gonzalez, "Stellar Evolution in Fast Forward," *Astronomy & Geophysics*, February, **40**, Issue 1, 1.14 (1999).
31. S. Giridhar, D. L. Lambert, and G. Gonzalez, "The Chemical Composition of SRd Variable Stars - II. WY Andromedae, VW Eridani, and UW Librae," *Publications of the Astronomical Society of the Pacific*, **111**, 1269 (1999).
32. J. A. Brown, G. Wallerstein, and G. Gonzalez, "Elemental Abundances in Five Stars in M54, A Globular Cluster Associated with the Sagittarius Galaxy," *Astronomical Journal*, **118**, 1245 (1999).
33. N. K. Rao, D. L. Lambert, M. T. Adams, D. R. Doss, G. Gonzalez, A. P. Hatzes, C. R. James, C. M. Johns-Krull, R. E. Luck, G. Pandey, K. Reinsch, J. Tomkin, V. M. Woolf, "The 1995-1996 Decline of R Corona Borealis – high resolution optical spectroscopy," *Monthly Notices of the Royal Astronomical Society*, **310**, 717 (1999).
34. G. Gonzalez, "Wonderful Eclipses," *Astronomy & Geophysics*, June, **40**, Issue 3, 3.18 (1999).
35. G. Gonzalez, "Is the Sun Anomalous?," *Astronomy & Geophysics*, October, **40**, Issue 5, 5.25 (1999).
36. S. Giridhar, D. L. Lambert, and G. Gonzalez, "Abundance Analyses of Field RV Tauri Stars, V: DS Aquarii, UY Arae, TW Camelopardis, BT Librae, U Monocerotis, TT Ophiuchi, R Scuti, and RV Tauri," *Astrophysical Journal*, **531**, 521 (2000).
37. G. Gonzalez and C. Laws, "Parent Stars of Extrasolar Planets, V: HD 75289," *Astronomical Journal*, **119**, 390 (2000).

REFEREED PUBLICATIONS IN PRINT (cont.)

38. G. Wallerstein, S. Matt, and G. Gonzalez, "The carbon Cepheid RT Trianguli Australis: additional evidence of triple- α and CNO cycling," *Monthly Notices of the Royal Astronomical Society*, **311**, 414 (2000).
39. G. Gonzalez and G. Wallerstein, "Elemental Abundances in Evolved Supergiants II: the Young Clusters, η and χ Persei," *Astronomical Journal*, **119**, 1839 (2000).
40. G. Gonzalez and G. Wallerstein, "Elemental Abundances in Evolved Supergiants III: M11," *Publications of the Astronomical Society of the Pacific*, **112**, 1081 (2000).
41. S. Giridhar, D. L. Lambert, and G. Gonzalez, "The Chemical Compositions of the SRd Variable Stars. III. KK Aquilae, AG Aurigae, Z Aurigae, W Leo Minoris, and WW Tauri," *Publications of the Astronomical Society of the Pacific*, **112**, 1559 (2000).
42. G. Gonzalez, C. Laws, S. Tyagi, and B. E. Reddy, "Parent Stars of Extrasolar Planets VI: Abundance Analyses of 20 New Systems," *Astronomical Journal*, **121**, 432 (2001).
43. S. Feltzing and G. Gonzalez, "The Nature of Super Metal Rich Stars: Detailed Abundance Analysis of 8 Super-Metal-Rich Star Candidates," *Astronomy & Astrophysics*, **367**, 253 (2001).
44. G. Giridhar, D. L. Lambert, G. Gonzalez, and G. Pandey, "Chemical Compositions of Four Metal-poor Giant Stars," *Publications of the Astronomical Society of the Pacific*, **113**, 519 (2001).
45. C. Laws and G. Gonzalez, "A Differential Spectroscopic Analysis of 16 Cygni A and B," *Astrophysical Journal*, **553**, 405 (2001).
46. G. Gonzalez, D. Brownlee, and P. Ward, "The Galactic Habitable Zone: Galactic Chemical Evolution," *Icarus*, **152**, 185 (2001).
47. G. Wallerstein and G. Gonzalez, "The Spectrum of VY Canis Majoris in 2000 February," *Publications of the Astronomical Society of the Pacific*, **113**, 954 (2001).
48. B. E. Reddy, D. L. Lambert, G. Gonzalez, and D. Young, "Spectroscopic Analysis of Two Carbon-Rich Post-AGB Stars," *Astrophysical Journal*, **564**, 482 (2002).
49. E. J. Gaidos and G. Gonzalez, "Stellar Atmospheres of Nearby Young Solar Analogs," *New Astronomy*, **7**, 211 (2002).
50. B. E. Reddy, D. L. Lambert, C. Laws, G. Gonzalez, and K. Covey, "A Search for ^6Li in Stars with Planets," *Monthly Notices of the Royal Astronomical Society*, **335**, 1005 (2002).

REFEREED PUBLICATIONS IN PRINT (cont.)

51. J. Armstrong, L. E. Wells, and G. Gonzalez, "Rummaging through Earth's Attic for Remains of Ancient Life," *Icarus*, **160**, 183 (2002).
52. G. Gonzalez, "Stars, Planets, and Metals," *Reviews of Modern Physics*, **75**, 101 (2003) (invited review paper).
53. L. E. Wells, J. Armstrong, and G. Gonzalez, "Reseeding of Early Earth by Impacts of Returning Ejecta During the Late Heavy Bombardment," *Icarus*, **162**, 38 (2003).
54. P. Candia, K. Krisciunas, N. B. Suntzeff et al. (including G. Gonzalez), "Optical and Infrared Photometry of the Unusual Type Ia Supernova 2000cx," *Publications of the Astronomical Society of the Pacific*, **115**, 277 (2003).
55. C. Laws, G. Gonzalez, K. M. Walker, S. Tyagi, K. Snider, J. Dodsworth, K. Snider, and N. B. Suntzeff, "Parent Stars of Extrasolar Planets VII: New Abundance Analyses of 30 Systems," *Astronomical Journal*, **125**, 2664 (2003).
56. K. R. Covey, G. Wallerstein, G. Gonzalez, A. D. Vanture, and N. B. Suntzeff, "A Reinvestigation of the Possible Metallicity Spread in NGC 3201," *Publications of the Astronomical Society of the Pacific*, **115**, 819 (2003).
57. C. Laws and G. Gonzalez, "A Re-evaluation of the Super Li-rich star J37 in NGC 6633," *Astrophysical Journal*, **595**, 1148 (2003).
58. G. Tautvaisiene, G. Wallerstein, D. Geisler, G. Gonzalez, and C. Charbonnel, "Elemental Abundances of three Red Giants in Terzan 7, a Globular Cluster Associated with the Sagittarius Galaxy," *Astronomical Journal*, **127**, 373 (2004).
59. I. I. Ivans, C. Sneden, G. Wallerstein, R. P. Kraft, J. E. Norris, J. P. Fulbright, and G. Gonzalez, "On the Question of a Metallicity Spread in Globular Cluster M22 (NGC 6656)," *Memorie della Societa Astronomica Italiana*, **75**, 286 (2004).
60. D. Geisler, V. V. Smith, G. Wallerstein, G. Gonzalez, and C. Charbonnel, "'Sculptor'-ing the Galaxy? The Chemical Compositions of Red Giants in the Sculptor Dwarf Spheroidal Galaxy," *Astronomical Journal*, **129**, 1428 (2005).
61. S. Giridhar, D. L. Lambert, B. E. Reddy, G. Gonzalez, D. Yong, "Abundance Analyses of Field RV Tauri Stars, VI: An Extended Sample," *Astrophysical Journal*, **627**, 432 (2005).
62. G. Gonzalez, "Habitable Zones in the Universe," *Origins of Life and Evolution of Biospheres*, **35**, 555 (2005).
63. G. Gonzalez, "Condensation Temperatures Trends Among Stars with Planets," *Monthly Notices of the Royal Astronomical Society*, **367**, L37 (2006).

REFEREED PUBLICATIONS IN PRINT (cont.)

64. G. Gonzalez, "The Sun's Interior Metallicity Constrained by Neutrinos," *Monthly Notices of the Royal Astronomical Society*, **370**, L90 (2006).
65. G. Gonzalez, "Indium Abundance Trends Among Sun-like Stars," *Monthly Notices of the Royal Astronomical Society*, **371**, 781 (2006).
66. G. Gonzalez, "The Chemical Compositions of Stars with Planets: A Review," *Publications of the Astronomical Society of the Pacific*, **118**, 1494 (2006) (invited review paper).
67. A. D. Vanture, V. V. Smith, J. Lutz, G. Wallerstein, D. Lambert, G. Gonzalez, "Correlation Between Lithium and Technetium Absorption Lines in the Spectra of Galactic S Stars," *Publications of the Astronomical Society of the Pacific*, **119**, 147 (2007).
68. G. Gonzalez, C. Laws, "Parent Stars of Extrasolar Planets VIII. Chemical Abundances for 18 Elements in 31 Stars," *Monthly Notices of the Royal Astronomical Society*, in press.

CONTRIBUTED PAPERS

1. "Shells, Faint Haloes, and Historical Mass ejection in Planetary Nebulae," B. Balick, G. Gonzalez, A. Frank, G. Jacoby, *B.A.A.S.*, **23**, 914 (1991).
2. "An Abundance Analysis of ROA 24, a Likely Post-AGB Star in Omega Centauri," G. Gonzalez and G. Wallerstein, *B.A.A.S.*, **23** (1991).
3. "A Photometric Investigation of Cepheids in Omega Cen," G. Gonzalez, *B.A.A.S.*, Meeting 181, abstract 12.01 (1992).
4. "Spectroscopic Study of Cepheids in Omega Cen," in *New Perspectives on Stellar Pulsation and Pulsating Variable Stars: IAU Colloquium 139*, G. Gonzalez and G. Wallerstein (1993).
5. "Hydrogen-Deficient Nature of Z Umi," in *Hydrogen deficient Stars*, A. Goswami, N. K. Rao, G. Gonzalez, and D. L. Lambert (1996).
6. "High Resolution Spectra of FG Sge During the 1992 and 1994 Deep Minima," in *Hydrogen Deficient Stars*, V. V. Smith, G. Gonzalez, N. K. Rao (1996).
7. "The Chemical Composition of IRAS 05341+0852: A Post-AGB F Supergiant with 21 micron Emission," in *Planetary Nebulae: Proceedings of the 180th IAU*, B. E. Reddy, M. Parthasarathy, G. Gonzalez, E. J. Bakker (1997).
8. "The Stellar Metallicity-Planet Connection," in *Brown Dwarfs and Extrasolar Planets*, G. Gonzalez (1998).

CONTRIBUTED PAPERS (cont.)

9. "Chemical Abundance Trends Among RV Tauri Stars," in *A Half-Century of Stellar Pulsation Interpretation: A Tribute to Arthur N. Cox*, G. Gonzalez and D. L. Lambert (1998).
10. "V553 Cen and the Carbon Cepheids," in *A Half-Century of Stellar Pulsation Interpretation: A Tribute to Arthur N. Cox*, G. Wallerstein and G. Gonzalez (1998).
11. "Nucleosynthesis in FG Sge," in *Stellar Evolution, Stellar Explosions and Galactic Chemical Evolution*, G. Gonzalez (1998).
12. "Elemental Abundances in Stars in the Retrograde Globular Cluster NGC 3201," G. Wallerstein and G. Gonzalez, *B.A.A.S.*, **30** (1998).
13. "Selective Depletion of Elements in Stellar Atmospheres: A Unified Picture?," in *The Carbon Star Phenomenon, Proceedings of the 177th Symposium of the IAU*, E. J. Bakker, G. Gonzalez, and D. L. Lambert (2000).
14. "A Search for Lithium-6 in Stars with Planets," in *Scientific Frontiers in Research on Extrasolar Planets*; Washington, D.C. (2003).
15. "Metallicity Trends Among Stars with Planets – 2002," in *Scientific Frontiers in Research on Extrasolar Planets*; Washington, D.C. (2003).
16. "The Moon: A Repository for Ancient Planetary Samples," *The Moon Beyond 2002: Next Steps in Lunar Science and Exploration*; Taos, NM; J. C. Armstrong, L. E. Wells, M. Kress, G. Gonzalez (September 2002).
17. "The Distribution of Stellar Characteristics among Stars Harboring Radial Velocity Companions," C. Laws and G. Gonzalez, *B.A.A.S.*, **34** (2002).
18. "The Chemistry of Giants in the Sculptor Dwarf Spheroidal Galaxy," D. Geisler, V. V. Smith, G. Wallerstein, G. Gonzalez, and C. Charbonnel, *B.A.A.S.*, **34** (2002).
19. "The Chemistry of Giants in the Sculptor Dwarf Galaxy," D. Geisler, V. V. Smith, G. Wallerstein, G. Gonzalez, and C. Charbonnel, 25th IAU meeting (2003).
20. "On Question of a Metallicity Spread in GC M22," I. I. Ivans, G. Wallerstein, C. Sneden, R. P. Kraft, J. E. Norris, G. Gonzalez, and J. P. Fulbright, 25th IAU meeting (2003).
21. "Chemical Abundances in the Sagittarius Galaxy: Terzan 7," G. Wallerstein, G. Tautvaisiene, G. Gonzalez, and D. Geisler, 25th IAU meeting (2003).

OTHER PUBLICATIONS

1. G. Gonzalez, "Nobody Here but Us Earthlings," *Wall Street Journal* Op. Ed., July 16 (1997).
2. G. Gonzalez, "Extraterrestrials: A Modern View," *SOCIETY*, **35**, No. 5, 14 (1998). – invited review.
3. G. Gonzalez, "Extrasolar Planets and ETI," *Astronomy & Geophysics*, December, **39**, Issue 6, 6.8 (1998).
4. J. W. Richards and G. Gonzalez, "Are We Alone?," *The American Spectator*, May, **37**, No. 4, 16 (2004).
5. G. Gonzalez and H. Ross, "Home Alone in the Universe," *First Things*, May, No. 103, 10 (2000).
6. G. Gonzalez, D. Brownlee, and P. D. Ward, "Refuges for Life in a Hostile Universe," *Scientific American*, October, 60 (2001).
7. G. Gonzalez, and J. W. Richards, "Good Reason to Shoot for the Moon," *Seattle Post-Intelligencer* Op. Ed., Jan. 21 (2004).
8. G. Gonzalez, "Should the Federal Government Spend More Money to Search for Extraterrestrial Intelligence?" – invited op-ed in W. Triplett, "The Search for Extraterrestrials," *CQ Researcher*, **14**, March 5, 197 (2004).

ARTICLES ABOUT DR. GONZALEZ'S RESEARCH

1. C. R. Chapman, "Earth's Lunar Attic," *Nature*, 24 October, **419**, 791 (2002).
2. R. Irion, "Are most Life-friendly Stars Older than the Sun?," *Science*, 2 January, **303**, 27 (2004).