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Summary:

Dr. Jhanis J. Gonzalez C. obtained his Ph.D. degree in Chemistry (Physics-Chemistry) from the Universidad Central de Venezuela in 2002. He started his scientific career as a visiting scientist and post-doc researcher at Lawrence Berkeley National Laboratory (USA). Currently holds two positions, one as a Technical Director, Product R&D, and Management at Applied Spectra, Inc. and also as a Principal Scientific Engineering Associate at Lawrence Berkeley National Laboratory, Berkeley, CA. His research focuses on understanding mechanisms of laser-material interactions (ablation) using nanosecond and femtosecond pulsed lasers and their impacts on LIBS, LAMIS, and all platforms of ICP-MS/OES systems. He is also involved in developing data analysis software and analytical methods for bio-imaging, energy, environmental, geochemistry, biological, and metallurgy industries. Dr. Gonzalez has over 70 manuscripts published in peer review journals, more than 70 presentations, and invited lectures at national and international conferences.

Education:

- Ph.D., Physics-Chemistry. Universidad Central de Venezuela. Facultad de Ciencias. Caracas. Venezuela. 2002
- B.S., Chemistry (with Honors) Universidad Central de Venezuela. Facultad de Ciencias. Caracas. Venezuela. 1998

Appointments:

- Senior Member of Technical Staff / Director Research and Development, Applied Spectra, Inc., Fremont, CA. 2016-current
- Senior Member of Technical Staff / Director Applications Lab Operations, Applied Spectra, Inc., Fremont, CA. 2008-2016
- Principal Scientific Engineering Associate at Lawrence Berkeley National Laboratory, Berkeley, CA. 2015-present
- Project Scientist at Lawrence Berkeley National Laboratory, Berkeley, CA. 2007-2015
- Chemist Postdoctoral Fellow at Lawrence Berkeley National Laboratory, Berkeley, CA. 2004-2007
- Visiting Scientist at Lawrence Berkeley National Lab. Berkeley California. 2003-2004
- Assistant Professor and Researcher of Physics-Chemistry, Universidad Central de Venezuela, 2002-2003

Publications 2009-2020 [1–43]:

[1] Y. Zhu, J.J. Gonzalez, X. Yang, G.C.-Y. Chan, X. He, R. Kostecki, X. Mao, R.E. Russo, V. Zorba, Calcium fluoride as a dominating matrix for quantitative analysis by laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS): A feasibility study, *Anal Chim Acta*. (2020). <https://doi.org/10.1016/j.aca.2020.07.002>.

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- [7] O. Syta, B. Wagner, E. Bulska, D. Zielińska, G.Z. Żukowska, J. Gonzalez, R.E. Russo, Elemental imaging of heterogeneous inorganic archaeological samples by means of simultaneous laser induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry measurements, *Talanta.* 179 (2018) 784–791. <https://www.sciencedirect.com/science/article/pii/S0039914017312134>.
- [8] Y. Lee, X. Mao, G.C.Y. Chan, J. Gonzalez, R.E. Russo, V. Zorba, Spatial and temporal distribution of metal atoms and their diatomic oxide molecules in femtosecond laser-induced plasmas, *Journal of Analytical Atomic Spectrometry.* 33 (2018) 1875–1883. <https://doi.org/10.1039/c8ja00150b>.
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