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Nationality Venezuelan

Date of birth 1st October 1967

Marital status Married, one daughter

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Education

1. Doctor in Philosophy (D. Phil), July 2005, St. Catherine's College, University of Oxford, United Kingdom.
2. Licentiate in Chemistry, June 1993, University of Los Andes, Venezuela.
3. Highschool Diploma in Science, July 1985, Francisco Javier Pulgar, Junior & Senior Highschool, Venezuela.

Professional Experience

1. Postdoctoral Research Associate (September 2005-August 2006), School of chemical, material and biological engineering, University of Oklahoma, Norman, USA.
2. Associate professor (2005-2006), Department of Chemistry, University of Los Andes, Venezuela.
3. Aggregate professor (2000-2004), Department of Chemistry, University of Los Andes, Venezuela.
4. Assistant professor (1996-1999), Department of Chemistry, University of Los Andes, Venezuela.

5. University Lecturer (1994-1996), Department of Chemistry, University of Los Andes, Venezuela.
6. Research and Teaching Assistant, 1988-1993.

Associations, Others

Venezuelan Association for the Scientific Development, Member.

Licentiate in Science Association, Member.

CUM LAUDE diploma awarded by the University of Los Andes.

Awards

1. Classified into the Venezuelan Researcher Program -No. PPI 4274- Level I (2004-2006) and Level II (2007-present).
2. Incorporated into the program of researcher of the University of Los Andes, 2001.

Scholarship

1. Scholarship from University of Los Andes (ULA, Venezuela) and the National Funds of Science, Technology and Innovation (FONACIT, Venezuela).
2. Selected for CITEC as Venezuelan represent to attend I Iberoamerican Course on Characterization of Materials, Brazil (2000).

List of Publications.

International catalysis meetings.

15. **S.L. González-Cortés**, T-C. Xiao, M.L.H. Green, Urea–matrix combustion method: A versatile tool for the preparation of HDS catalysts, *Proceeding of the 9th International Symposium of Scientific Bases for the Preparation of Heterogeneous Catalysts*, Louvain-la-Neuve, Belgium, September 10-14, 2006.
14. **S.L. González-Cortés**, T-C. Xiao, M.L.H. Green, Novel method for the preparation of nanodispersed Co(Ni)-promoted Mo(W)S₂ HDS catalysts, *232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006* (2006), PETR-017. Publisher: American Chemical Society, Washington, D. C

13. T-C. Xiao, **S.L. González-Cortés**, F. Al-Shahrani, M.L.H. Green, Effect of promoters on the HDS performance of the supported catalysts prepared using OMXC method, *Preprints - American Chemical Society, Division of Petroleum Chemistry*, **50(4)**, 360-366, (2005).
12. Tiancun Xiao, Jianwen Da, **Sergio L. González-Cortés**, Malcolm L.H. Green, Hamid Al-Megren, Soliman Al-Khowaiter, “New method for preparing highly effective catalyst for hydrodesulfurization (HDS)”, *13th Annual Saudi-Japanese Symposium (Dhahran, Saudi Arabia, 14 -15 December 2003)*.
11. **Sergio L. González-Cortés**, Tian-Cun Xiao, Malcolm L. H. Green, “Hidrodesulfuración de tiofeno sobre el catalizador Co-Mo-S/ γ -Al₂O₃. Influencia del método de preparación”, *Proceedings of XVIII Iberoamerican Symposium on Catalysis*, (Venezuelan Catalysis Society, Eds.) Margarita island, Venezuela (2002).
10. Serbia M. A. Rodulfo-Baechler, Alberto Oliveros, José Orozco, **Sergio L. González-Cortés**. “Actividad y Caracterización de Catalizadores de Hierro Modificados”, *Proceedings of XVI Iberoamerican Symposium on Catalysis*, (J.M. Órfão, J.L Faria, J.L. Figueiredo, Eds.),Porto, Portugal (2000).
9. **Sergio L. González-Cortés**, Wilfredo J. Pernía, Hector L. Del Castillo, “Influencia de la Cantidad de Estroncio sobre la Interacción del NiO con el La₂O₃” *Proceedings of XVI Iberoamerican Symposium on Catalysis*, (J.M. Órfão, J.L Faria, J.L. Figueiredo, Eds.), Porto, Portugal (2000).
8. **Sergio L. González-Cortés**, Ismael J. Aray Ramírez, Serbia M. Rodulfo-Baechler, “Caracterización de Catalizadores NiO/MgO-La₂O₃: Efecto del Método de Preparación y de la Temperatura de Calcinación”, *Proceedings of XVI Iberoamerican Symposium on Catalysis*, (J.M. Órfão, J.L Faria, J.L. Figueiredo, Eds.),Porto, Portugal (2000).
7. **S. L. González-Cortés**, J. Orozco. Variación de las Propiedades Catalíticas del Sr²⁺/La₂O₃ Modificado con Diferentes Cantidades de Cobre, *Proceedings of XVI Iberoamerican Symposium on Catalysis* (A. Centeno, S. A. Giraldo and E. A. Paéz Mozo Eds.), Cartagena, Colombia, **Vol. 3**, 2135-2140 (1998).

6. **S. L. González-Cortés**, J. Orozco, J. B. González. Influencia de la Cantidad de Níquel sobre la Reactividad Superficial del La_2O_3 Premodificado con Estroncio, *Proceedings of XVI Iberoamerican Symposium on Catalysis* (A. Centeno, S. A. Giraldo and E. A. Paéz Mozo Eds.), Cartagena, Colombia, **Vol. 2**, 1315-1320 (1998).
5. J. B. González, **S. L. González-Cortés**, J. Mendiola, J. Orozco, Variación del Potencial de Superficie de La_2O_3 bajo Atmósferas de Metano, Hidrógeno y Oxígeno, *Proceedings of XV Iberoamerican Symposium on Catalysis* (E. Herrero, O. Anunziata and C. Pérez Eds.), Córdoba (Argentina), **Vol. 3**, 1855-1860 (1996).
4. **S. L. González-Cortés**, J. Orozco, Modificación del catalizador $\text{Sr}^{2+}/\text{La}_2\text{O}_3$ con Oxido de Cobalto, *Proceedings of XV Iberoamerican Symposium on Catalysis* (E. Herrero, O. Anunziata and C. Pérez Eds.), Córdoba, Argentina, **Vol. 3**, 1933-1938 (1996).
3. J. C. Hernández, F. E. Imbert, A. Oliveros, **S. L. González-Cortés**, J. Orozco, A. Uzcátegui, “Craqueo de n-heptano sobre zeolitas Y modificadas con lantano”, *Proceeding of IV Colombian Symposium on Catalysis*, Bucaramanga (Colombia), 135-138 (1996).
2. J. C. Hernández, F. E. Imbert, **S. L. González-Cortés**, A. Oliveros, J. Orozco, H. Del Castillo, “Caracterización de zeolitas Y modificadas por desaluminación e intercambio”, *Proceeding of IV Colombian Symposium on Catalysis*, Bucaramanga (Colombia), 117-112 (1996).
1. J. Orozco, **S. González**, Conversión Directa de Metano sobre catalizadores a base de óxido de lantano”, *Proceedings of XIV Iberoamerican Symposium on Catalysis*, Concepción (Chile), **Vol. 2**, 1147-1152 (1994).

Periodical Journals.

31. **Sergio L. González-Cortés**, Serbia M. A. Rodulfo-Baechler, Asiloe J. Mora, Gerzon E. Delgado, Tian-Cun Xiao, Li Jiang and Malcolm L.H. Green. “Synthesis of the cetyltrimethylammonium-heptamolybdate hybrid material and attempt to remove the surfactant by thermal treatment”. *In preparation*.

30. Hamid A. Al-Megren, **Sergio L. González-Cortés**, Tiancun Xiao, Malcolm L.H. Green, “Hydrodenitrogenation (HDN) reaction of pyridine on Co-Mo and Co(Ni)-W carbide catalysts”. *Submitted to Applied Catalysis A:General*
29. Lynda Nayeli Belandría, Carmen Soraya Gonzalez, Fernando Aguirre, Eleida Sosa, Alvaro Uzcategui, Gema Gonzalez, **Sergio L. Gonzalez-Cortes**, Alfonso Loaiza-Gil and Freddy E. Imbert. “Synthesis, characterization of FAU/EMT intergrowths and its catalytic performance in N-pentane hydroisomerization reaction”. *Submitted to Catalysis Today*.
28. **Sergio L. González-Cortés**, Serbia M.A. Rodulfo-Baechler, Tiancun Xiao, Nicholas H. Rees, and Malcolm L. H. Green. “A one-step approach for the preparation of Mo-oxo nanoparticles confined in mesoporous silica”. *Submitted to Journal of Solid State Chemistry..*
27. **Sergio L. González-Cortés**, Ismael Aray, et al. “On the structure and surface properties of NiO/MgO-La₂O₃ catalyst: Influence of the support composition and preparation method”. *Accepted in J. Mater. Sci.*
26. Serbia M. A. Rodulfo-Baechler, Wilfredo Pernía, Ismael Aray, Humberto Figueroa, **Sergio L. González-Cortés**. “Influence of lanthanum carbonate phases of Ni/La_{0.98}Sr_{0.02}O_x catalyst over the oxidative transformation of methane”, *Catal. Lett.*, **112**, 231-237 (2006).
25. **Sergio L. González-Cortés**, Serbia M.A. Rodulfo-Baechler, Tiancun Xiao, Malcolm L. H. Green, “Rationalizing the catalytic performance of γ -alumina-supported HDS catalysts prepared by urea-matrix combustion synthesis”, *Catal. Lett.*, **111**, 57-66 (2006).
24. **S.L. González-Cortés**, T-C. Xiao, M.L.H. Green, “Urea–matrix combustion method: A versatile tool for the preparation of HDS catalysts”, *Studies Surf. Sci. Catal.*, **162**, 817-824 (2006). Proceeding of the 9th International Symposium of Scientific Bases for the Preparation of Heterogeneous Catalysts, Louvain-la-Neuve, Belgium, September 10-14, 2006.

23. **S.L. González-Cortés**, T-C. Xiao, Tsung-Wu Lin, M.L.H. Green, "Influence of double promotion on HDS catalysts prepared by urea-matrix combustion synthesis", *Applied Catalysis A: General*, **302**, 264-273 (2006).
22. B. Xu, T. Xiao, Z. Yan, X. Sun, J. Sloan, **S.L. González-Cortés**, F. Alshahrani, M.L.H. Green, Synthesis of mesoporous alumina with highly thermal stability using glucose template in aqueous system, *Microporous and Mesoporous Materials*, **91**, 293-295 (2006).
21. **S.L. González-Cortés**, T-C. Xiao, S.M.A. Rodulfo-Baechler, M.L.H. Green, "Impact of the urea-matrix combustion method over the HDS performance of Ni-MoS₂/γ-Al₂O₃ catalysts". *J. Molec. Catal., A. Chem.*, **240**, 214 (2005).
20. **S.L. González-Cortés**, T-C. Xiao, P.M.F.J. Costa, S.M.A. Rodulfo-Baechler, M.L.H. Green, "Relevance of the Co_{1-x}Ni_xWO₄ wolframite-type mixed oxide compositions on the synthesis and catalytic properties of W-based carbides". *J. Molec. Catal., A. Chem.*, **238**, 127 (2005).
19. **S.L. González-Cortés**, T-C. Xiao, H.A. Al-Megren, L. Ruiz-González, N. Rees, I. Hannus, Dora Méhn, J. Li, M.L.H. Green, "Synthesis of MCM-41 frameworks incorporating oxygen-sulphur derivatives of molybdenum and tungsten", *Mater. Res. Bull.*, **40**, 1112-1119 (2005).
18. **S.L. González-Cortés**, T-C. Xiao, A.P.E. York, D. Ma, H. Al-Megren and M.L.H. Green, Characterization and catalytic performance of Co, Ni and W trimetallic carbides, *Reaction Kinetic and Catalysis Letter*, **84**, 21-28 (2005).
18. H.A. Al-Megren, T-C. Xiao, **S.L. González-Cortés**, S.H. Al-Khowaiter and M.L.H. Green, "Comparison of bulk CoMo bimetallic carbide, oxide, nitride and sulfide catalysts for pyridine hydrodenitrogenation", *J. Molec. Catal., A. Chem.*, **225**, 143-148 (2005).
16. X-W. Chen, T-C. Xiao, **S.L. González-Cortés** and M.L.H. Green, "Methane dry reforming over alumina supported Co catalysts", *Chemical Research in Chinese Universities*, **20**, 457-461 (2004).

15. **S. L. González-Cortés**, T-C. Xiao, P. M.F.J. Costa, B. Fontal and M. L. H. Green, "Urea-organic matrix method: An alternative approach to prepare Co-MoS₂/γ-Al₂O₃ HDS catalyst", *Applied Catalysis A: General*, **270**, 209-222 (2004).
14. D. Ma, T-C. Xiao, S. Xie, W. Zhou, **S.L. González-Cortés** and M. L. H. Green, "Synthesis and structure of bimetallic nickel molybdenum phosphide solid solutions", *Chem. Mater.*, **16**, 2697-2699 (2004).
13. S. M. Rodulfo-Baechler, **S. L. González-Cortés**, J. Orozco, V. Sagredo, B. Fontal, A. J. Mora and G. Delgado. "Characterization of modified iron catalysts by X-ray diffraction, infrared spectroscopy, magnetic susceptibility and thermogravimetric analysis", *Material Letters* **58**(20), 2447-2450 (2004).
12. A. Rodríguez, F. Rueda, R. Casanova, J. Mendialdua, **S.L. González-Cortés**, I. Aray, O. Delgado, F.E. Imbert, S.M. Rodulfo-Baechler, H.L. Del Castillo, "Caracterización másica y superficial del catalizador NiO/MgO-La₂O₃. Influencia de la composición del soporte", *Rev. LatinAm. Met. Mat.*, **23**(2), 72-77 (2003).
11. **S. L. González-Cortés**, S. M. A. Rodulfo-Baechler and J. Orozco. "Characterization of Fe-Co-Mn catalysts after monoxide hydrogenation", *Revista Mexicana de Física*, **49**(3), 204-206 (2003).
10. S. M. Rodulfo-Baechler, **S. L. González Cortes**, J. Orozco, A. J. Mora y G. Delgado, "Caracterización estructural de la solución sólida (Fe_{1-x}Mn_x)₂O₃, utilizando datos de difracción rayos-X en muestras policristalinas", *Revista Mexicana de Física*, **49**(3), 195-197 (2003).
9. **S. L. González-Cortés** y J. Orozco, "Reducción térmica programada como técnica complementaria de difracción de rayos-X: Estudio estructural del catalizador NiO_x/Sr²⁺/La₂O₃", *Ciencia* (Maracaibo, Venezuela) **10**(1), 27-34 (2002).
8. **S. L. González-Cortés**, S. M. A. Rodulfo-Baechler, A. Oliveros, J. Orozco, B. Fontal, A. J. Mora and G. Delgado, "Synthesis of light alkenes on manganese promoted iron and iron-cobalt Fischer-Tropsch catalysts", *Reaction Kinetic and Catalysis Letter*, **75**, 3-12 (2002).

7. **S. L. González-Cortés**, B. Fontal and D. Moronta. "Surface and structural modification of 1.5 mole % Sr/La₂O₃ catalyst with different Co, Ni, and Cu amounts", *Revista Mexicana de Física*, **47**(4), 367-374 (2001).
6. **S. L. González-Cortés**, J. Orozco and B. Fontal. "Oxidative transformation of methane on 1.5 mole % Sr²⁺/La₂O₃-supported nickel catalysts", *Applied Catalysis A: General*, **213**, 259-271 (2001).
5. **S. L. González-Cortés**, J. Orozco, D. Moronta, B. Fontal and F. E. Imbert, "Methane conversion over Sr²⁺/La₂O₃ catalyst modified with nickel and copper", *Reaction Kinetic and Catalysis Letter*, **69**(1), 145-152 (2000).
4. **S. L. González-Cortés**, J. C. Hernández, A. Uzcátegui y F. E. Imbert. "Caracterización de catalizadores mediante técnicas termoprogramadas: Desorción y reducción a temperatura programada", *Revista de la Sociedad Venezolana de Química*, **21**(3), Julio-Septiembre, 11-21 (1998).
3. **S. L. González-Cortés**, J. Orozco, J. L. Brito and B. Fontal. "Characterization of Sr²⁺/La₂O₃ Catalyst Modified with Different Cobalt Content", *Acta Científica Venezolana*, **49**(4), 253-261 (1998).
2. **S. L. González** y J. Orozco, "Transformación de Metano usando un Catalizador de Estroncio/Oxido de Lantano Modificado con Cobalto", *Información Tecnológica*, **9**(2), 77-85 (1998).
1. **S. L. González-Cortés** y J. Orozco, "Dimerización Oxidativa del Metano sobre Oxido de Lantano Modificado", *Acta Científica Venezolana*, **48**(4), 233-240 (1997).