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Roberto Acevedo, PhD

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Education

- Jan 1982 – Dec 1982* **University of Virginia**
Postdoctoral Position, Spectroscopy of Condensed Matter
Charlottesville, Virginia, United States
- Aug 1978 – Aug 1981* **University of London**
Doctor of Philosophy, Theoretical Molecular Spectroscopy
London, England, United Kingdom
- Mar 1970 – Aug 1974* **University of Chile**
Master of Science, Chemistry major Theoretical Chemistry
Santiago, Santiago Metropolitan, Chile

Thesis

Research Experience

Statistics

RG Score 26.56
Publications 124
Reads 2,645
Citations 302

Awards & Grants

Skills & Activities

Skills Coordination Compounds, Spectra, Luminescence, Absorption, Coordination Chemistry, Inorganic Synthesis, Synthesis, Crystal Structure, X-ray Diffraction, Material Characterization, Fluorescence, Materials, Lanthanide, Luminescent Materials, Photophysics, X-ray Crystallography, Inorganic Materials, Structure Determination, Structural Chemistry, entrepreneurship, Social Business, Social

Responsibility

Languages English, Spanish

Scientific Memberships

Interests Music, reading and sports

Publication Highlights

[authors]: [title]. [details]

Books

Roberto Acevedo, Guillermo Muñoz, Teodoro Meruane, Gustavo Navarro: *Tópicos Especiales en Química Inorgánica. Interpretación de las Intensidades Espectrales en Cristales Cúbicos del tipo CS₂SnB₆(-2):OsBr₆(-2)*. 09/2018;

Eduardo A Zacarías Abufhele, Roberto Acevedo: *ASPECTOS FORMALES DE LA QUÍMICA ANALÍTICA Y APLICACIONES COTIDIANAS*. 06/2018;

Teodoro Meruane, Verónica Sandoval, Rossana Peña, Roberto Acevedo: *COMPLEJOS OCTAÉDRICOS REGULARES DE LANTANIDOS TRIVALENTES*. 06/2018;

Andres Soto-Bubert, Roberto Acevedo: *Tópicos en Termodinámica*:DDI:A-268095 ISBN (online):978-956-368-325-7. 04/2018; , ISBN: 978-956-368-325-7

Roberto Acevedo, Bernardo Javalquinto: *Beneficios del Emprendimiento Social*:DDI:A-268090 ISBN(online):978-956-368-320-2. 04/2018; , ISBN: 978-956-368-320-2

Andres Soto-Bubert, Roberto Acevedo: *La Naturaleza de la Fuerzas Intermoleculares*:DDI:A-268087 ISBN(online):978-956-368-323-3. 04/2018; , ISBN: 978-956-368-323-3

Roberto Acevedo, Teodoro Meruane, Gustavo Navarro: *ELEMENTOS INTRODUCTORIOS DE ESTRUCTURA ATÓMICA Y MOLECULAR*-updated:DDI:A-268086 ISBN:978-956-368-322-6. 04/2018; , ISBN: 978-956-368-322-6

Roberto Acevedo, Miguel Jordan, Andres Soto-Bubert, Eduardo Avila: *Compromisos con la Educación*: DDI:A-268083 ISBN (on line): 978-956-368-321-9. 04/2018;

Alicia Allendes, Roberto Acevedo: *Generación de un Sistema de Indicadores Evaluativos de los Desarrollos de Procesos Internos en Instituciones Educativas*. 12/2012;

Roberto Acevedo, Gonzalo Montes-Atenas: *Hacia un Enfoque Dinámico de la Físico-Química. Part 2*. 09/2004;

Roberto Acevedo, Gonzalo Montes-Atenas: *HACIA UN ENFOQUE DINAMICO DE LA FISICO-QUIMICA. Part 1*. 09/2004;

Teodoro Meruane, Alfonso Morales, Roberto Acevedo: *PROBLEMAS Y EJERCICIOS DE QUIMICA INORGANICA*. 01/1964;

Book Chapters

- Roberto Acevedo: *The General Theory of Radiative and Non Radiative Transitions in Centrosymmetric Coordination Compounds of the Transition Metal Ions. Vibronic Processes in Inorganic Chemistry*, 01/1989: pages 139-193; , ISBN: 978-94-010-6954-0, DOI:10.1007/978-94-009-1029-4_8
- C. D. Flint, R. Acevedo: *The Intensities of Vibronic Origins in Transition Metal Complex Ions. Understanding Molecular Properties*, 01/1987: pages 195-203; , ISBN: 978-94-010-8182-5, DOI:10.1007/978-94-009-3781-9_11

Journal Publications

- S. Shanavas, A. Priyadharsan, I. Gkanas, R. Acevedo, P.M. Anbarasan: *High efficient catalytic degradation of tetracycline and ibuprofen using visible light driven novel Cu/Bi₂Ti₂O₇/rGO nanocomposite: Kinetics, intermediates and mechanism*. DOI:10.1016/j.jiec.2019.01.008
- Oscar A Inostroza, Roberto Acevedo: *A Predictor Based on Artificial Neural Networks. Part II: : Artificial Neural Network Models Review and its Parameter Analysis, Inglo Mayor. Section A, Volume 15 (2018), Page 307 of 335. ISSN 0719-7578*.
- Roberto Acevedo, Miguel Jordan, Oscar A Inostroza: *Chile's Education Crisis: Part 5 of a Country Study*.
- Joann Rolle, Roberto Acevedo, Miguel Jordan: *Chile's Education Crisis: Part 2 of a Case Study*.
- Roberto Acevedo, Bernardo Javalquinto: *BANCO MUNDIAL, AJUSTES ESTRUCTURALES Y ESCUELA DE LOS CHICAGO BOYS THE wORLDBANK, STRUCTURAL ADJUSTMENTS AND THE CHICAGO BOYS' SCHOOL*.
- Joann Rolle, Roberto Acevedo, Miguel Jordan: *Chile Education Crisis. Case Study Part 4*.
- Iris Billy, Jacqui Kisato, KhasadyahuZarababal, J.D.Rolle, Roberto Acevedo: *The Cultural Genogram: An International Cross-Cultural Case Study on Entrepreneurship*.
- Jo-Ann Rolle, Roberto Acevedo, Miguel Jordan: *The Meaning of Success in This New Century, Chile a Case of Study*.
- Roberto Acevedo, Joann Rolle, Miguel Jordan: *Chile's Education Crisis: Part 3 of a Case of Study*.
- Debabrata Pradhan, LalaBehariSukla, Roberto Acevedo: *Microalgae for Future Biotechnology Industries*.
- Jacqueline Kisato, Iris Billy, J.D.Rolle, Roberto Acevedo, KhasadyhuZarababal: *The Cultural Genogram: Experiential Entrepreneurship and social impact through a Global lens*.
- Joann Rolle, Roberto Acevedo, Miguel Jordan: *Chile's Education Crisis: Part 1 of A Country Study*.
- Jo-Ann Rolle, Iris Billy, Roberto Acevedo, JacklineKisato: *Preparing Students for Entrepreneurship Careers*.
- Wallace Ford, Shirley Grant Williams, Iris Billy, KhasadyahuZarababal, J.D.Rolle, Bernardo Javalquinto, Roberto Acevedo, Emmanuel Egbe, Erastus Mong'are, Roger Kaufman, Jacqui Kisato, Eric Harter: *Exploring Corporate Social Responsibility with Global Community*.
- Roberto Acevedo, Bernardo Javalquinto: *Negocios Sociales: Una Reforma al Modelo Económico Imperante*.

- Roberto Acevedo, Bernardo Javalquinto: *Social Business. A formal view and review of the Social Business in Latin America. Some working examples.*
- R. Acevedo, A. Soto-Bubert, M. Jiménez-Guevara, M. Belmar: *Microstructure of calcite and aragonite in some Chilean gastropods and bivalves molluscs.* Asian Journal of Spectroscopy 07/2010; 14(3):63-76.
- R. Acevedo, A. Soto-Bubert, M. Valerio, W. Strek: *On the theory of interaction potentials in ionic crystals: An application to the thermodynamics of lanthanide type crystals.* Asian Journal of Spectroscopy 10/2009; 13(4):43-65.
- R. Acevedo, G. Muñoz, T. Meruane: *Intensidades espectrales en compuestos de coordinación de los metales de transición: Aplicaciones a sistemas del tipo Cs₂SnBr₆:OsBr₂- 6.* Revista Mexicana de Física 05/2009; 47(003).
- Roberto Acevedo, Andrés Soto-Bubert: *On the theory of interaction potentials in ionic crystals.* Journal of Physics Conference Series 11/2008; 134(1):012025., DOI:10.1088/1742-6596/134/1/012025
- Gustavo Navarro, Roberto Acevedo, Andrés Soto, Mario Herane: *Synthesis and characterization of lepidocrocite and its potential applications in the adsorption of pollutant species.* Journal of Physics Conference Series 11/2008; 134(1), DOI:10.1088/1742-6596/134/1/012023
- Roberto Acevedo, Andres Soto-Bubert: *Theory of the normal modes of vibrations in the lanthanide type crystals.* Journal of Physics Conference Series 11/2008; 134(1), DOI:10.1088/1742-6596/134/1/012024
- Roberto Acevedo, Andrés Soto-Bubert, Paul Bosch, WieslawStrek: *Spectral intensities in trivalent lanthanide systems : Applications to the Cs₂NaDyCl₆ and Cs₂NaHoCl₆ crystals.* Journal of Alloys and Compounds 08/2008; 461(s 1-2):53-57., DOI:10.1016/j.jallcom.2008.01.129
- Roberto Acevedo, Andrés Soto-Bubert, Gustavo Navarro: *Spectral intensities for the Cs₂NaDyCl₆ and Cs₂NaHoCl₆ systems.* Journal of Physics Conference Series 01/2008; 134(1), DOI:10.1088/1742-6596/134/1/012026
- Roberto Acevedo, Andrés Soto-Bubert, Paul Bosch, W. Strek: *A new approach and some criteria to deal with the theory of the normal modes of vibrations in the elpasolite stoichiometric type systems short range intramolecular interactions.* Journal of Molecular Structure 10/2007; 843(1):116-127., DOI:10.1016/j.molstruc.2007.01.015
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- R. Acevedo, T. Meruane, G. Navarro, A. Soto Bubert: *Métodos vibrónicos generalizados aplicaciones a sistemas del tipo elpasolitas estequiométricas Cs₂NaErCl₆.* Revista Mexicana de Física 08/2005; 51(004).
- R Acevedo, A Soto-Bubert, V Martin, G Navarro: *Synthesis and structural characterization of stoichiometric elpasolites of Dy(3+) and Ho(3+).* Revista Mexicana de Física 02/2005; 51(1):5-13.
- R. Acevedo, V. Martín, G. Navarro, A. Soto Bubert: *Síntesis y caracterización estructural de las elpasolitas estequiométricas de Dy³⁺ y Ho³⁺.* Revista Mexicana de Física 02/2005; 51(1).

- R. Acevedo, A. Soto-Bubert, G. Navarro, T. Meruane, W. Strę k: *Spectral intensities for the emission $|4S3/2I8\rangle \rightarrow |4I15/2I\rangle$ in the $Cs_2NaErCl_6$.*
- R. Acevedo, A. Soto-Bubert, G. Navarro, T. Meruane, W. Strek: *Spectral intensities for the emission vertical bar $S-4(3/2)Gamma(8)\rangle \rightarrow$ vertical bar $I-4(15/2)Gamma \rangle$ in the $Cs_2NaErCl_6$.* ActaPhysicaPolonica Series a 03/2004; 105(3-3):233-251.
- R. Acevedo, C. Portillo, G. Navarro, T. Meruane: *Spectral Intensities in Cubic Stoichiometric Elpasolites.* Advances in Quantum Chemistry 01/2003;
- R. Acevedo, A. Soto-Bubert, G. Navarro, T. Meruane, W. Strêk: *Spectral Intensities for the Emission $|4S\{3/2\}Gamma\ 8 \rangle \rightarrow |4I\{15/2\}Gamma\rangle$ in the $Cs_2NaErCl_6$.* ActaPhysicaPolonica Series a 01/2003; 105(3)., DOI:10.12693/APhysPolA.105.233
- R. Acevedo, C. Portillo, G. Navarro, T. Meruane: *Spectral Intensities in Cubic Stoichiometric Elpasolites: The $Cs_2NaSmCl_6$ and $Cs_2NaEuCl_6$ Systems.*
- Roberto Acevedo, Ernesto Cortés: *A lattice dynamics model for M_2XY_6 systems in the $Fm3m(Oh_5)$ space group.* Theoretical Chemistry Accounts 04/2002; 107(4):187-199., DOI:10.1007/s00214-001-0309-7
- R. Acevedo, O. F. Hurtado, C. Portillo, W. Strek: *Absorptions and emissions for the $TmCl_6^{3-}$ Ion in $Cs_2NaTmCl_6$.* ActaPhysicaPolonica Series a 12/2001; 100(6-6):829-844.
- Peter A Tanner, Roberto Acevedo, Oscar Hurtado, Teodoro Meruane: *Vibronic oscillator strengths of Tm^{3+} in $Cs_2NaTmCl_6$.* Journal of Alloys and Compounds 07/2001; 323:718-721., DOI:10.1016/S0925-8388(01)01054-4
- R Acevedo, G Munoz, T Meruane: *Spectral intensity in coordination compounds of transition metals: Applications to systems of the type $Cs_2SnBr_6 : OsBr_6^{2-}$.* Revista Mexicana de Fisica 06/2001; 47(3):207-218.
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- R. Acevedo, M. Passman, G. Navarro: *Ligand-Framework Coupling Vibrations. The $2E_g \rightarrow 4A_{2g}$ Transition in the $Cr(CN)_6^{3-}$ Complex Ion.* ActaPhysicaPolonica Series a 02/2001; 99(2):215-232., DOI:10.12693/APhysPolA.99.215
- R. Acevedo, T. Meruane, G. Navarro: *The emission spectra for the $Cs_2NaScCl_6:MoCl_6^{3-}$ system in the $Fm3m$ space group.* ActaPhysicaPolonica Series a 02/2001; 99(2):233-242., DOI:10.12693/APhysPolA.99.233
- R. Acevedo, S.O. Vásquez, T. Meruane, V. Poblete, J. Pozo: *Spectral intensities in cubic systems. I. Progressions based upon parity vibrational modes.* Revista Mexicana de Fisica 09/1998; 44:35-37.
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- R. Acevedo, O. Hurtado, T. Meruane, G. Navarro, V. Díaz, J. Pozo: *Spectral intensities in cubic systems. III. The $Cs_2NaEuCl_6$ system.* Revista Mexicana de Fisica 09/1998; 44:41-43.
- V. Poblete, R. Acevedo, P.A. Tanner: *Spectroscopic studies, theoretical models and structural characterization. I. The elpasolites $Cs_2NaLnCl_6$, where $Ln^{3+} = Er^{3+}, Yb^{3+}$.* Revista Mexicana de Fisica 09/1998; 44:29-31.

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- R. Acevedo, C.D. Flint, T. Meruane, G. Muñoz, M. Passman, V. Poblete: *Vibronic intensities in centrosymmetric coordination compounds of the rare earths Part II. A vibronic crystal field-closure-ligand polarisation model and applications to the PrCl₃-6 and UBr₂-6 complex ions in octahedral symmetry*. Journal of Molecular Structure THEOCHEM 02/1997; 390(s 1-3):109-119., DOI:10.1016/S0166-1280(96)04765-3
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- R. Acevedo, V. Poblete: *Synthesis and X-ray Powder Diffraction Study of the Elpasolite Cs₂NaCeCl₆*. Powder Diffraction 12/1995; 10(4):241-242., DOI:10.1017/S0885715600014895
- R. Acevedo, S.O. Vásquez: "Ligand Polarisation Vibronic Intensities in Centrosymmetric Coordination Compounds I. The Cr(NH₃)₆³⁺ Ion in Octahedral Symmetry". Anales de Química 01/1995; 91(7-8):526-532.
- R. Acevedo, T. Meruane, E. Cortés, S. O. Vasquez, C. D. Flint: *Vibronic intensities in centrosymmetric lanthanide complex ions. I*. Theoretical Chemistry Accounts 01/1994; 88(2):99-110., DOI:10.1007/BF01114783
- R- Acevedo, E. Cortés, T. Meruane, S.O. Vásquez, C.D. Flint: "Radiative Processes in Centrosymmetric Lanthanide Complex Ions. II. A Symmetry Adapted Vibronic Crystal Field Closure Formalism". Anales de Química 01/1994; 90(5-6):339-342.
- R. Acevedo, E. Cortés, T. Meruane, S.O. Vásquez, C.D. Flint: "Radiative Processes in Centrosymmetric Lanthanide Complex Ions. I. A General Formalism. Relaxation of the Closure Approximation". Anales de Química 01/1994; 90(5-6):334-338.
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- R. Acevedo, S.O. Vásquez, M. Passman: "Vibronic Intensities in Coordination Compounds. Phases and Vibrational Coordinates". Anales de Química 01/1994; 90(3-4):237-246.
- R. Acevedo, G. Díaz, M.M. Campos-Valette, B. Weiss: *Intramolecular force field for the Ni(NH₃)₆²⁺ 25 atom system in the octahedral point molecular group*. SpectrochimicaActa Part A Molecular Spectroscopy 12/1991; 47(s 3-4):355-361., DOI:10.1016/0584-8539(91)80113-W
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- R. Acevedo, G. Diaz, S. O. Vasquez, C. D. Flint: *Vibronic intensities in the electronic spectra of transition metal complex ions VIII: Vibrational coordinates for octahedral ions and their application to the 4 A_{2g} → 2 E_g*

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- Roberto Acevedo, Guillermo Díaz: *General Valence Force Field and Molecular Dynamic Parameters for Cubic Lanthanide Hexachloro-Elpasolite Crystals*. Spectroscopy Letters 01/1988; 21(1):19-34.,
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DOI:10.1080/00387018608069270
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- Roberto Acevedo, Guillermo Díaz, Colin D. Flint: *Normal coordinate analysis of the 25-atom system Cr(NH₃)₃+6 octahedral symmetry*. SpectrochimicaActa Part A Molecular Spectroscopy 12/1985; 41(12):1397-1403., DOI:10.1016/0584-8539(85)80193-8
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- Roberto Acevedo, Teodoro Meruane, Jorge R. Letelier: *On the theory of radiative transitions in centrosymmetric complexes*. Theoretical Chemistry Accounts 01/1984; 64(5):339-369.,
DOI:10.1007/BF00548946
- Roberto Acevedo, Guillermo Díaz: *Normal Coordinates Analysis of the Hexamminochromium (III) Ion. A Simplified M(NX)₆ Model*. Spectroscopy Letters 03/1983; 16(3):199-206.,
DOI:10.1080/00387018308062335
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R. Acevedo, C.D. Flint: *Vibronic intensities in the electronic spectra of transition metal ions*. *Molecular Physics* 07/1065; 49(5-5):1065-1076., DOI:10.1080/00268978300101771

Roberto Acevedo: *ON THE THEORY OF TWO PHOTON ABSORPTIONS (TPA) IN BOTH CENTROSYMMETRIC AND NON CENTROSYMMETRIC COMPLEX IONS*.

Roberto Acevedo, Andrés Soto: *INTERACCIONES MOLECULARES*.

Roberto Acevedo, Gustavo Navarro: *ELEMENTOS DE MECÁNICA CUÁNTICA EN SISTEMAS POLIELECTRÓNICOS*.

R. Acevedo, G. Díaz, A. Soto: *Amplitudes Medias de Vibración*.

R. M. Chorbadjian, R. Acevedo, J. Pozo: *SOBRE CORRIENTES Y LEYES DE CONSERVACION*.

R. Acevedo, G. Díaz, P. Kittl, Avenida Manuel Montt: *STATISTICS OF QUOTATIONS REPORTED BY THE INSTITUTE FOR SCIENTIFIC INFORMATION (ISI). A WORKING EXAMPLE OF A CHILEAN INSTITUTION*.

Roberto Acevedo, Guillermo Muñoz, Teodoro Meruane, Gustavo Navarro: *TÓPICOS ESPECIALES EN QUÍMICA INORGÁNICA Interpretación de la Intensidades Espectrales en Cristales Cúbicos*.

Roberto Acevedo, Teodoro Meruan, O. F. Hurtado, G. Navarro: *Procesos Vibrónicos en Materiales Luminiscentes*.

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A. Soto Bubert, G. Navarro, T. Mesuane, R. Acevedo: *Métodos vibrónicos generalizados aplicaciones a sistemas del tipo elpasolitas estequiométricas Cs₂ NaErCl₆*.

Patents

Conference Proceedings

R Acevedo, A Soto-Bubert: *On the Theory of Interaction Potentials in Ionic Crystals (II) Applications to the Thermodynamics of the Elpasolite 6 2 KLnCl Cs Crystals*. 9th Global Chemistry Congress, Lisbon, Portugal; 07/2018

Roberto Acevedo, Miguel Jordan, Oscar Inostroza, Andres Soto: *The Higher Education System in Chile. Part 3*. 10th International Conference on Chemistry Education and Research; 06/2018

Roberto Acevedo, Miguel Jordan, Oscar Inostroza, Andres Soto: *.-The Higher Education System in Chile. Part 1*. 10th International Conference on Chemistry Education and Research, Oslo, Norway; 06/2018

Roberto Acevedo, Miguel Jordan, Oscar Inostroza, Andres Soto: *4.-The Higher Education System in Chile. Part 4*. 10th International Conference on Chemistry Education and Research, Oslo, Norway; 06/2018

Roberto Acevedo, Miguel Jordan, Oscar Inostroza, Andres Soto: *2.-The Higher Education System in Chile. Part 2*. 10th International Conference on Chemistry Education and Research, Oslo, Norway; 06/2018

Roberto Acevedo, Bernardo Javalquinto: *World Bank Structural Adjustments. Chile as a Case of Study*. In Traders Conference. 10,11,12 May, 2018, Turkey; 05/2018

Roberto Acevedo, Bernardo Javalquinto: *STRATEGIC MANAGEMENT. MERGERS & ACQUISITIONS. SOCIAL BUSINESS*. In Traders Confernce. 10,11,12 May, 2018, Turkey; 05/2018

J D Rolle, Iris Billy, KhasadyahuZarbabal, Jacquelyn Kisato, Roberto Acevedo: *The cultural genogram: experiential entrepreneurship through a global lens*. ABMR 6th International Conference on Business and Economic Development (ICBED), New York, USA, New York,USA; 04/2017

R Acevedo, C Portillo, G Navarro, TMeruane: *Spectral Intensities in Cubic Stoichiometric Elpasolites: The Cs₂NaSmCl₆ and Cs₂NaEuCl₆ Systems*. 16th International Jahn-Teller Conference; 12/2003, DOI:10.1016/S0065-3276(03)44033-1

Technical Reports

Erick Fabian Montecinos Castañeda, Roberto Acevedo: *UNIVERSIDAD SAN SEBASTIÁN FACULTAD DE INGENIERÍA Y TECNOLOGÍA ESCUELA DE INGENIERÍA SEDE SANTIAGO RENIO: UN DESAFÍO TECNOLÓGICO Trabajo de proyecto de título para optar al título de Ingeniero Civil en Minas*. Affiliation: San Sebastian University, DOI:10.13140/RG.2.2.13204.35206

Gonzalo Rund Candia, Gonzalo Montes-Atenas, Roberto Acevedo: *Cellular automata modeling for self-diffusion in solids*. Report number: Second Technical Report, DOI:10.13140/RG.2.2.29374.79681

Roberto Acevedo: *Centro de Investigación Avanzado en Nano Tecnologías y Materiales Avanzados*. Report number: Second Technical Report, Affiliation: Universidad Mayor, DOI:10.13140/RG.2.2.13405.31207