

Short version of the curriculum vitae

Roberto Acevedo, PhD

Full Professor Universidad de Chile, Universidad Mayor.

Full Professor Universidad San Sebastián

https://www.researchgate.net/profile/Roberto_Acevedo5

Personal Data

Full name :Roberto Acevedo
Date of birth :November 30, 1950
Address :Horacio Aravena A. Ex Pasaje 1. Casa 2950 CP. 7810000.
Santiago
Nationality :Chilean
Children :Roberto.Jr (QEPD), Ruby Cecilia, Sissi Brigitte, Alfredo William, Colin David

Granchildren :Roberto Abraham, Ruby Cecilia, GermánPatricio, Lindsey Sharon, Geraldine Alejandra, Jacek Swen, Gustavo Adolfo
Great grandchildren: KeithyCypriensYeruti, Damian Benjamín, Derek WieslawFelip, Dylan Elliott

Undergraduate and Postgraduate Studies :

(2.1)Faculty of Sciences. University of Chile. MSc in Chemistry, major Theoretical Chemistry. Faculty of Sciences (1974)
(2.2)Ph.D. in Chemistry, major Theoretical Molecular Spectroscopy. Birkbeck College and King's College. University of London. United Kingdom (1978-1981).
(2.3)Postdoctoral Studies: Spectroscopy of Lanthanide Complex Ions in Elpasolite type crystals. Department of Chemistry. University of Virginia. Charlottesville. USA (1982)

Academic Distinctions and Research Position held abroad :

-Visiting Fellowship. University of Virginia, 1982
-Honorary Research Fellow : Birkbeck College. University of London. UK : 1984, 1985, 1990 and 1991
-Bursary of the EC. DG-XII : Birkbeck College. University of London, 1991 (six months)
-Visiting Scholar : Department of Chemistry. University of Virginia, 1993

- Invited Speaker : Advanced Study Institute. NATO - ASI, Vibronic Processes in Inorganic -Chemistry. Riva del Sole, Italy, 1988
- Visiting Professor: Department of Biology and Chemistry. City University of Hong Kong, 1996
- Member of the Editorial Board : Asian Journal of Spectroscopy.
- Co - Editor. The Section of Chemistry. “Ciencia al Día”
<http://www.ciencia.cl/CienciaAlDia/>
- Incorporated to Who's Who in the World. Marquis Who is Who. 15 th Edition, 1997
- Incorporated to Who's Who in the World. Marquis Who is Who. 16 th Edition, 1999
- Incorporated to International Who is Who of Intellectuals. 13 th Edition. Cambridge. UK, 1998
- Incorporated to Dictionary of International Biography. 27 th Edition. Cambridge. U.K, 1998
- Incorporated to 2000 Outstanding Intellectuals of the 20th Century. International Biographical Centre. Cambridge, U.K, 1999
- Honorary Member of the International Biographical Centre. Advisory Council, 1999
- Editor en Jefe. Revista Ciencia Abierta. <http://cabierta.uchile.cl> ISSN: 0717-8948 (revista culmina sus actividades en Abril, 2007).
- Editor en Jefe. Revista Inglo Mayor. <http://www.inglomayor.cl> ISSN:0719-7578
- Regional Editor. Material Science. International Journal on the Physics and Chemistry of Condensed Materials and Their Applications. Address for correspondence: Institute of Low Temperature and Structure Research. Polish Academy of Sciences. 50-950 Wroclaw. P.O.Box. 937. Okolna, Poland.
- Member of the New York Academy of Sciences.
- Editor: Ciencia y Tecnología (www.roberto-acevedo.cl).
- Member of the Editorial Committee. Journal of Social Business (JSB) An interdisciplinary quarterly journal. www.journalofsocialbusiness.net (2016) ISSN:2045-1083
- Member of the International Advisory Committee National Seminar on the Role of Microalgae in waste-water treatment. Convention Hall Campus—II, SOA University Date: 21 th February, 2017. Organized by Multi-Disciplinary Research Cell Siksha ‘O’ Anusandhan University. Khandagiri Square. Bhubaneswar-751030, Odishia. India.
- Member of the Organizing Committee 10 th International Conference on Chemistry Education and Research June 21-22, 2018. Oslo. Norway
(<https://chemistryeducation.chemistryconferences.org/abstract-submission.php>)

Academic Positions :

- (4.1) Head of Research and Development. Vicerrectoría de Desarrollo. Universidad Mayor, December 15, 2012-2017
- (4.2) Dean. Facultad de Ingeniería. Universidad Mayor. April 01, 2007-December 15, 2012.
- (4.3) Director of Postgraduate Studies. Faculty of Engineering. Universidad Mayor. April 2007-December 2012
- (4.4) Researcher and Professor : Faculty of Physical and Mathematical Sciences. University of Chile. December 1974-Abril 2007
- (4.5) Professor. First Category Professor. Faculty of Physical and Mathematical Sciences. University of Chile. June 01, 1991-
- (4.6) Full Professor at the Universidad de Chile. From June 1991-
- (4.7) Full Professor at the Universidad Mayor. From August 2009-
- (4.8) Miembro de la Comisión Normativa Transitoria de la Universidad de Chile (actual Senado Universitario). 4,5 años. Comisión de Estatutos.
- (4.9) Miembro del Consejo de la Facultad de Ciencias Físicas y Matemáticas. Universidad de Chile. Período superior a 8 años, hasta Marzo, 2007.

Research Interest

Linear and non linear optics in new inorganic luminescent materials of the rare earths.
Dynamics of crystals.

Cooperative effects, Jahn - Teller (Static and dynamics), Pseudo Jahn - Teller in coordination compounds of the transition metal and lanthanide complex ions

Scientific Psychology

Advanced Studies in Higher Education

Social Business, Social Responsibility and Entrepreneurship.

Research Projects:

(6.1) Molecular Physics : Molecular spectroscopy in both organic and inorganic compounds. Research grant: 1870310. Fondecyt (1987)

Molecular Physics: dynamic of crystals. Research grant: 1880623. Fondecyt. (1987-1988-1990)

(6.2) Molecular Physics. One and Two photon spectroscopy in solid state physics. Experimental and theoretical studies. Coordination compounds of the transition metal and

lanthanide complexes in cubic crystals. Research grant: 1920935. Fondecyt (1992-1993-1994)

(6.3) Molecular dynamics. Synthesis, Structural studies, electric and optic properties in luminescent materials. Theoretical studies and computing simulations in lattice dynamics. Research grant: 1950668. Fondecyt (1995-1996-1997).

(6.4) Spectroscopy in the solid state. Experimental and theoretical studies in the antiferroite $Cs_2NaLn_xLn'_{1-x}Z_6$ type crystals. Research grant: 1981207. Main researcher: R.Acevedo. (1998-1999-2000)

(6.5) Nuclear and no nuclear materials. Joint project: Chilean Nuclear Energy Commission and the Division of Theoretical Chemistry. Department of Basic Chemistry. Faculty of Physical and Mathematical Sciences. University of Chile. (1998-2002).

(6.6) International Cooperation Research Project. Fondecyt. grant: 7980056 (1998-1999-2000). Main Researchers: R.Acevedo.

(6.7) New Materials, Theoretical and Experimental Aspects. Grant 2049. Universidad Diego Portales (Noviembre de 2000 a Noviembre de 2001). Main Researcher: R. Acevedo

(6.8) Ion-Phonon Coupling in Crystal Systems. Grant. 2062. Universidad Diego Portales (Enero, 2002 a Enero, 2003). MainResearcher: R.Acevedo

(6.9) Aspectos formales en dinámica del estado sólido y procesos de interés tecnológico. Octubre 2005-Octubre 2006. Project. VRA-UDP: 10. 03.25.008.

(6.10) Nuclear and no nuclear materials. Joint project: SKB. Sweden, Comisión Chilena de Energía Nuclear, La Reina and the Division of Theoretical Chemistry. Department of Material Science. Facultad de Ciencias Físicas y Matemáticas. Universidad de Chile, 2007-

Biography Data

Roberto Acevedo, PhD is nowadays a part time professor at the Facultad de Ingeniería y Tecnología de la Universidad San Sebastián. Sede Bellavista. Bellavista, researcher and fully engaged in research in three main areas: Basic and Applied Technology, Entrepreneurship and Social Business, Scientific Psychology and Higher Education. In his academic career, he was promoted to full Professor in both Universidad de Chile (UCh) and

Universidad Mayor (UM). The academic hierarchy at the Universidad San Sebastián is under revision by the Higher Academic Board.

He was appointed in a variety of positions as academician and administrator, in relevant positions, among others, such as: Dean of the Faculty of Engineering (UM), Head of Research and Development (UM), Member of the Senate (UCh), Member of Faculty Council (Facultad de Ciencias Físicas y Matemáticas. UCh), Head of the Departamento de Química (Facultad de Ciencias Físicas y Matemáticas. UCh). As for his studies are concerned, he became a Licenciado en Filosofía con mención en Química (Magister) at the Universidad de Chile (1974), PhD at both Birkbeck and King's Colleges. University of London (1981), Held a post doctoral position at the Chemistry Department. Charlottesville. University of Virginia, USA (1982). Some of his academic distinctions are as follows: post doctoral position and fellowship at the University of Virginia, USA (1982), Honorary Research Fellow. University of London. UK (1984, 1985, 1990, 1991), Bursary of the EC. DG-XII (1991), Invited Speaker. Advanced Study Institute. NATO-ASI. Riva del Sole, Italy (1988), Visiting Professor at the City University of Hong Kong (1986), Key Speaker at two International Conferences held at the School of Business. Medgar Evers College. The City University of New York (2016), Editor in Chief. Section A. *Inglomayor* (www.inglomayor.cl) ISSN. 0719-7578, Editor of virtual library www.roberto-acevedo.cl, among a number of other academic distinctions.

Roberto Acevedo has focused his attention in both lecturing to a broad number of students in different topics and also in research in areas such as: Linear and non Linear Optics in New Inorganic Luminescent Materials of the Rare Earths, Dynamics of Crystals, Cooperative Effects, Jahn - Teller (Static and dynamics), Pseudo Jahn - Teller in Coordination Compounds of the Transition Metal and Lanthanide Complex Ions, Scientific Psychology, Advanced Studies in Higher Education, Social Business and Entrepreneurship. He has been the supervisor of a substantial number of students: 12, working for their academic degrees of MSc, DSc, and 78 working for their Professional Titles.

His outcome in research may be divided into sections: (a) National Publications: 117, (b) Publications in International Congress: 42, (c) Publications in electronic journals: 148 (d) International Publications (ISI): 85 and Author of 17 Books. Many Conferences delivered in Chile and Abroad.

Member of the Board of Editors: Journal of Social Business (JSB). www.journalofsocialbusiness.net, ISSN: 2045-1083, Chief Editor of the electronic magazines: *Inglomayor* (www.inglomayor.cl) ISSN: 0719-7578, Chief Editor (Virtual Library). Science and Technology (www.roberto-acevedo.cl) and member of the International advisory committee. National seminar on the role of microalgae in wastewater treatment Odisha India (February, 2017).

Member of the Organizing Committee. Chemistry and Education Research. Theme: Contemporary Advances and Innovations in Chemistry. Oslo-Norway. June 21-22, 2018. (<https://chemistryeducation.chemistryconferences.org/organizing-committee.php>), and also a number of other positions in board of academic journals and so forth.

International publications (1981-2018)

1981

(1) Theoretical studies of the intensity mechanism of electronic transitions in co-ordination compounds

R.Acevedo

PhD Thesis. University of London, 1981

1982 Researcher and Lecturer at the Facultad de Ciencias Físicas y Matemáticas. Universidad de Chile.

1983 Researcher and Lecturer at the Facultad de Ciencias Físicas y Matemáticas. Universidad de Chile.

(2) On the evaluation of the geometrical factors utilised in ligand polarisation calculations.

R.Acevedo, T.Meruane

Theoretica Chimica Acta (Berl.), 62, 30 (1983)

(3) Vibronic intensities in the electronic spectra of transition metal ions. I.- Crystal field calculations for the transition of

R.Acevedo, C.D.Flint

Molecular Physics, 49(5), 1065 (1983)

1984

(4) On the theory of radiative transitions in centrosymmetric complexes. A symmetry adapted crystal field approach

R.Acevedo, T.Meruane, J.R.Letelier

Theoretica Chimica Acta (Berl.), 64, 339 (1984)

(5) Normal co-ordinate analysis of the hexamminochromium (III) ion. A simplified model

R.Acevedo, G. Díaz

Spectroscopy Letters 16(3), 199 (1984)

(6) Vibronic intensities in the electronic spectra of transition metal ions. II.- Ligand polarisation calculations for the of

R.Acevedo, C.D.Flint

Molecular Physics, 53(1), 129 (1984)

1985

(7) Electronic factors in the non radiative relaxation of transition metal ions. I.- Crystal field calculations for the ion.

R.Acevedo, C.D.Flint

Molecular Physics, 54(3), 619 (1985)

(8) Crystal field and ligand polarisation contributions to the electric dipole strengths of tetrahedral Cobalt (II) complexes

R.Acevedo, G.Díaz, C.D.Flint

J.C.S. Faraday Transaction II, 811861 (1985)

(9) Evaluation of the crystal field - closure - ligand polarisation interference term for the vibronic intensities of centrosymmetric co ordination compounds. A caveat and a correction

R.Acevedo, C.D.Flint

Molecular Physics, 56(3), 683 (1985)

(10) Normal co ordinate analysis of the 25 - atom system in octahedral symmetry

R.Acevedo, G. Díaz, C.D.Flint

SpectrochimicaActa A, 41 (12), 1397 (1985)

1986

(11) The calculation of the electric dipole vibronic intensities in centrosymmetric co-ordination compounds, using a crystal field- closure- ligand polarisation model.

R.Acevedo, C.D. Flint

TheoreticaChimicaActa (Berl.), 69(3), 225 (1986)

Spectroscopy Letters, 19 (1), 73 (1986)

(12) Vibronic intensities in the electronic spectra of transition metal ions. Quadrupole - dipole and hexadecapole - dipole contributions to the vibronic intensity in octahedral transition metal compounds.

R.Acevedo, C.D.Flint

Molecular Physics, 58 (6), 1033 (1986)

(13) Normal co ordinate analysis for the complex ions in and symmetries. Simplified molecular models.

R.Acevedo, G.Díaz

Spectroscopy Letters, 19 (6), 653 (1986)

(14) Full normal co ordinate analysis and molecular dynamic parameters for the ion.

R.Acevedo, G.Díaz

Spectroscopy Letters, 19 (1), 73 (1986)

1987

(15) The theory of the radiative transitions in co-ordination compounds. I.-
Centrosymmetric complex ions.

R.Acevedo, G. Díaz

An. Quím, 83, 135 (1987)

(16) The intensity of vibronic origins in transition metal ions

C.D.Flint, R.Acevedo

In Understanding Molecular Properties. Pages: 195-203. Editors :J.Avery, P.Dahl,
A.E.,Hansen. D.Reidel Publishing Co, 1987

1988

(17) Vibrational wavenumbers and normal co ordinate analysis. The ion

R.Acevedo, G. Díaz, C.D.Flint, P.A.Tanner

An.Quím, 84.B, 172 (1988)

(18) Vibrational analysis in co-ordination compounds. The ion in octahedral symmetry.

R.Acevedo, G.Díaz

An.Quím, 84. B, 176 (1988)

1989 Researcher and Lecturer at the Facultad de Ciencias Físicas y Matemáticas.
Universidad de Chile.

(19) The theory of no radiative transitions in co-ordination compounds. I.-
Centrosymmetric complex ions.

R.Acevedo, G. Díaz

An. Quím, 85, 37 (1989)

(20) On the evaluation of the electric dipole transition moments in non centrosymmetric
coordination compounds. A combined crystal field - closure - ligand polarisation model.

R.Acevedo, G. Díaz, T.Meruane

An.Quím, 86, 467 (1989)

(21) General valence force field and molecular dynamic parameters for cubic lanthanide
hexachloro - elpasolite crystals.

R.Acevedo, G. Díaz

Spectroscopy Letters, 21 (1), 19 (1988)

(22) Modulation of a generalised valence force field for the solid in the space group

R.Acevedo, E. Cortés

An. Quím, 85, 360 (1989)

(23) The general theory of radiative and non radiative transitions in centrosymmetric co-ordination compounds of the transition metal ions

R.Acevedo. In Vibronic Processes in Inorganic Chemistry. NATO-ASI. Series C : Mathematical and Physical Sciences. Vol. 288. Pages: 139-194. Kluwer Academic Publishers, 1989

1990

(24) Normal co-ordinate analysis for the solid . A simplified molecular model in the factor group D_{3d}

R. Acevedo, G. Díaz

An. Quím, 86 (7), 744 (1990)

(25) On the evaluation of the electric dipole transition moments in non centrosymmetric co-ordination compounds. A combined crystal field - closure - ligand polarisation method.

R.Acevedo, G. Díaz, T.Meruane

An. Quím, 86 (5), 467 (1990)

(26) Vibronic intensities in the electronic spectra of transition metal ions. VII.- The electronic transition of the ion in XXX

R.Acevedo, G. Díaz, J.R.Letelier, C.D.Flint

Molecular Physics, 71, 1063 (1990)

1991

(27) Intermolecular force field and mean amplitudes of vibrations for the twenty five atom system in the octahedral point molecular group

R.Acevedo, G. Díaz, M.Campos-Vallette, B.Weiss

SpectrochimicaActa, 47. A(3), 355 (1991)

(28) Vibronic intensities in the electronic spectra of transition metal complex ions. VIII. Vibrational co-ordinates for octahedral ions and their application to the transition of ion.

R.Acevedo, G. Díaz, S.O.Vásquez, C.D.Flint

TheoreticaChimicaActa (Berl.), 79, 349 (1991)

(29) Vibronic intensities in the electronic spectra of transition metal complex ions. IX.- Experimental studies of the relative vibronic intensities in the transition of the ion .

R.Acevedo, S.O.Vásquez, C.D.Flint

Molecular Physics, 74 (4), 843 (1991)

(30) Vibronic intensities in the electronic spectra of transition metal complex ions. X.- Second order Herzberg - Teller contributions to the vibronic intensity of the transition in

R.Acevedo, S.O.Vásquez, C.D.Flint

Molecular Physics, 74 (4), 853 (1991)

1992 None

1993 None

1994 None

(31) Vibronic intensities in centrosymmetric lanthanide complex ions. I.- A combined crystal field - ligand polarisation approach

R.Acevedo, T.Meruane, E. Cortés, S.O.Vásquez, C.D.Flint
TheoreticaChimicaActa (Berl.), 88, 99 (1994)

(32) Higher order vibronic interactions in centrosymmetric co-ordination compounds of the transition metal ions.

R.Acevedo, S.O.Vásquez
An. Quím, 90 (1), 38 (1994)

(33) Radiative processes in centrosymmetric lanthanide complex ions. I.- A general formalism. Relaxation of the closure approximation.

R.Acevedo, E. Cortés, T.Meruane, S.O.Vásquez, C.D.Flint
An. Quím, 90, 334 (1994)

(34) Radiative processes in centrosymmetric lanthanide complex ions. II.- A symmetry adapted vibronic crystal field - closure formalism.

R.Acevedo, E. Cortés, T.Meruane, S.O.Vásquez, C.D.Flint
An. Quím, 90, 339 (1994)

(35) Vibronic intensities in coordination compounds. Phases and vibrational coordinates.

R.Acevedo, S.O.Vásquez, M.Passman
An. Quím, 90, 237 (1994)

1995

(36) Spectral intensities for the system

R.Acevedo, T.Meruane, E. Cortés, V.Poblete
An. Quím, 91 (7,8), 479 (1995)

(37) Synthesis and X-ray powder diffraction study of the elpasolite

R.Acevedo, V.Poblete
Journal of Powder Diffraction, 10 (3), 241 (1995)

(38) Ligand polarisation vibronic intensities in the electronic spectra of centrosymmetric coordination compounds of the transition metal ions. The ion in the octahedral point molecular group

R.Acevedo, S.O.Vásquez

An. Quím, 91 (7,8), 526 (1995)

1996

(39) Vibronic intensities in the absorption spectra of

R.Acevedo, P. A.Tanner, T. Meruane, V.Poblete

Physical Review B, 54 (6), 3976 (1996)

(40) Magnetic properties in Inorganic Materials

R.Acevedo, T.Meruane, V.Poblete, J.Pozo

In Magnetism, Magnetic Materials and Their Applications. Editors: F.Leccabue, V. Sagredo. Pages : 241-244. World Scientific. Singapore, 1996

(41) Dynamical Behaviour of the Soliton Instability in the Planar Ferromagnet

J.Pozo, R. Acevedo, T.Meruane

In Magnetism, Magnetic Materials and Their Applications. Editors: F.Leccabue, V. Sagredo. Pages : 330-334. World Scientific. Singapore, 1996

1997

(42) A vibronic crystal field - ligand polarisation model and applications to the and complex ions in octahedral symmetry.

R.Acevedo, C.D.Flint, T.Meruane, G.Muñoz, M.Passman, V.Poblete

Journal of Molecular Structure (Theochen), 390 , 109 (1997)

(43) Spectroscopic Studies: Theoretical Models and Structural Characterisation

I.- The elpasolites $Cs_2NaLnCl_6$ where $Ln^{+3} = Er^{+3}, Yb^{+3}$

V.Poblete, R. Acevedo, P.A. Tanner

Rev.Mex.Fís, 44. S1,29-31 (1998)

1998

(44) Spectroscopic Studies: Theoretical Models and Structural Characterisation

II.- Synthesis and X-ray Powder Diffraction of the elpasolite $Cs_2NaSmCl_6$

V.Poblete, R. Acevedo

Rev.Mex.Fís, 44.S1, 32-34(1998)

(45) Spectral Intensities in Cubic Systems

I.- Progressions based upon odd parity vibrational modes

R. Acevedo, S.O.Vásquez, T.Meruane, V.Poblete, J.Pozo
Rev.Mex.Fís, 44.S1, 35-37(1998)

(46) Spectral Intensities in Cubic Systems

II.- The $MoCl_6^{3-}$ system in cubic elpasolite crystals

R. Acevedo, T.Meruane, V.Poblete
Rev.Mex.Fís, 44.S1, 38-40(1998)

(47) Spectral Intensities in Cubic Systems

III.- The $Cs_2NaEuCl_6$ system

R.Acevedo, T.Meruane, G. Navarro, O.F.Hurtado, V. Díaz, J.Pozo
Rev.Mex.Fís, 44.S1, 41-43(1998)

(48) Spectral Intensities in Cubic Systems

IV.- The $Cs_2NaTmCl_6$ system

O.Hurtado, R. Acevedo, T.Meruane
Rev.Mex.Fís, 44.S1, 44-45(1998)

1999None

2000None

2001

(49) Intensidades Espectrales en Compuestos de Coordinación de los Metales de Transición

I.- Aplicaciones a Sistemas del tipo $Cs_2SnBr_6:OsBr_6^{2-}$

R.Acevedo, G.Muñoz, T.Meruane.
Rev.Mex.Fís, **47**(3), 207(2001)

(50) Vibronic Oscillator Strengths of Tm^{3+} in $Cs_2NaTmCl_6$

P.A.Tanner, R. Acevedo, T.Meruane, O.F.Hurtado.
J.Alloys Compounds, **323-324**, 718 (2001)

(51) Vibronic Intensities for Er^{3+} in $Cs_2NaErCl_6$

R.Acevedo, G.Navarro, T.Meruane, P.A.Tanner, Y.Y.Zhao.
Rev.Mex.Fís, **47**(3), 245(2001)

(52) Spectral intensities. I.- Ligand-framework coupling vibrations. The ${}^2E_g \rightarrow {}^4A_{2g}$ transition in the $Cr(CN)_6^{3-}$ complex ion.

R.Acevedo, M.Passman, G.Navarro.

ActaPhysicaPolonica A, **99**(2),215 (2001).

(53) Spectral Intensities. II.- The emission spectra for the $Cs_2NaScCl_6:MoCl_6^{3-}$ system in the Fm3m space group.

R.Acevedo, T.Meruane, G.Navarro.

ActaPhysicaPolonica A, **99** (2),233 (2001)

(54) Absorptions and Emissions for the $TmCl_6^{3-}$ ion in the $Cs_2NaTmCl_6$

R. Acevedo, O.F.Hurtado, C.Portillo, W.Strek.

ActaPhysicaPolonica A, **100**(6), 829(2001)

2002

(55) A Lattice Dynamic Model for the M_2XY_6 System in the $Fm3m(O_h^5)$ Space Group
R.Acevedo, E.Cortés. Theoretical Chemistry Accounts, **107**(4), 187 (2002)

2003

(56)Procesos Vibrónicos. Naturaleza e Implicancias Químicas.

R.Acevedo.

Investigación y Ciencia (Edición Española de Scientific American),pages: 54-61. Enero 2003. Prensa Científica. S.A.

(57) SpectralIntensities in CubicStoichiometricElpasolites

The $Cs_2NaSmCl_6$ and $Cs_2NaEuCl_6$ Systems.

R.Acevedo, C.Portillo, G.Navarro, T.Meruane.

Advances in Quantum Chemistry, **44**, 509-525,2003.

2004

(58) Spectral Intensities for the Emissions $(^4S_{3/2})\Gamma_8 \rightarrow (^4I_{15/2})\Gamma$ in the $Cs_2NaErCl_6$

R.Acevedo, A.Soto-Bubert,G.Navarro, T.Meruane, W.Strek

Acta PhysicaPolonica A, **105**,233(2004)

2005

(59) Síntesis y Caracterización Estructural de las ElpasolitasEstequiométricas de Dy^{3+} y Ho^{3+}

G.Navarro, R.Acevedo, A.Soto-Bubert,V.Martín

Rev.Méx.Fís, **51**(1),5 (2005)

(60) Métodos Vibrónicos Generalizados: Aplicaciones a sistemas del tipo elpasolitas estequiométricas $Cs_2NaLnCl_6$
R.Acevedo, A.Soto-Bubert, C.Portillo, T.Meruane
Rev.Mex.Fís, **54**(1),330(2005).

2006 None

2007 Dean Faculty of Engineering. Universidad Mayor. Head of Development and Research Faculty of Engineering. Universidad Mayor.

(61) 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.

Roberto Acevedo, Andrés Soto-Bubert, Paul Bosh, WieslawStrek.
Journal of Molecular Structure, **843**(1-3),116(2007)

(62) Generalized vibronic methods and applications to the lanthanide type systems.

R.Acevedo, A.Soto-Bubert, G.Navarro, T.Meruane, W.Strek
Asian Journal of Spectroscopy, **11**(1),1,(2007)

2008 Dean Faculty of Engineering. Universidad Mayor. Head of Development and Research Faculty of Engineering. Universidad Mayor.

(63) Spectral intensities in trivalent lanthanide systems. Applications to the $Cs_2NaDyCl_6$ and the $Cs_2NaHoCl_6$ crystals.

Roberto Acevedo, Andrés Soto-Bubert, Paul Bosch, WieslawStrek
Journal of Alloys and Compounds, **461**(1-2),53(2008)

(64) Theory of the normal modes of vibrations in the lanthanide type crystals.

R.Acevedo, A. Soto-Bubert. J.Phys.Conf. Ser. **134**(2008) 012024

(65) On the theory of interactions potentials in ionic crystals

R. Acevedo, A.Soto-Bubert. J.Phys.Conf. Ser. **134**(2008) 012025

(66) Spectral intensities for the $Cs_2NaDyCl_6$ and the $Cs_2NaHoCl_6$ systems.

R.Acevedo, A.Soto-Bubert, G.Navarro. 2008 J.Phys.Conf. Ser. **134**(2008) 012026

(9.5.373) Synthesis and characterization of lepidocrocite and its potential applications in the adsorption of pollutant species.

G.Navarro, R.Acevedo, A.Soto-Bubert, M.Herane. J.Phys.Conf. Ser. **134**(2008) 012023

2009

(67) On the theory of interaction potentials ion ionic crystals. Applications to the thermodynamics of the lanthanide type crystals.

R.Acevedo, A.Soto-Bubert, MGE.Valerio, W.Strek

Asian Journal of Spectroscopy,**13**,43 (2009)

2010

(68) Microstructure of calcite and aragonite in selected Chilean gastropods and bivaldesmollusks. Roberto Acevedo, Andrés Soto-Bubert, Marisol Jimenez-Guevara, Mauricio Belmar

Asian Journal of Spectroscopy, **14**, 63(2010)

2011Dean Faculty of Engineering. Universidad Mayor. Head of Development and Researech Faculty of Engineering. Universidad Mayor.

2012Head of Development and Researech Faculty of Engineering. Universidad Mayor.

2013. Head of Development and Researech Faculty of Engineering. Universidad Mayor.

2014 Head of Development and Researech Faculty of Engineering. Universidad Mayor.

2015Head of Development and Researech Faculty of Engineering. Universidad Mayor.

(69) Social Business: A change of Paradigm or just another Philantropy Cause.

Roberto Acevedo, Bernardo Javalquinto.

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(83) Felisibility for Network Flows with Blending Constraints: Applications to Lithium Mining.

Paul Bosh, José Saavedra-Rozas, Ronal Castillo-Capino, Andres Soto-Bubert, Roberto Acevedo

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(84) Chile's Education Crisis. Part 2 of a Case of Study

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(85) Chile's Education Crisis: Part 5 of a Country Study

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(86) Strategic Management, Merges and Acquisitions, Social Business Intraders. International Conference on International Trade

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(87) World Bank Structural Adjustments Chile as a Case of Study

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(88) The Higher Education System in Chile. Part 2

Roberto Acevedo, Miguel Jordan, O.A.Inostroza, Andrés Soto

Chemistry Education and Research. June 21-22 Oslo Norway

Theme: Contemporary Advances and Innovations in Chemistry

<https://chemistryeducation.chemistryconferences.org>

(89) The Higher Education System in Chile. Part 1

Roberto Acevedo, Miguel Jordan, O.A.Inostroza, Andrés Soto

Chemistry Education and Research. June 21-22 Oslo Norway

Theme: Contemporary Advances and Innovations in Chemistry

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(90) The Higher Education System in Chile. Part 3

Roberto Acevedo, Miguel Jordan, O.A.Inostroza, Andrés Soto

Chemistry Education and Research. June 21-22 Oslo Norway

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(91) The Higher Education System in Chile. Part 4

Roberto Acevedo, Miguel Jordan, O.A.Inostroza, Andrés Soto

Chemistry Education and Research. June 21-22 Oslo Norway

Theme: Contemporary Advances and Innovations in Chemistry

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(92) On the Theory of the Interaction Potentials in Ionic Crystals. Applications to the Thermodynamics of the Elpasolite Cs_2KLnCl_6 Crystals.

Roberto Acevedo, Andrés Soto.

9th Global Chemistry Congress, Libon. Portugal. July 23.24,2018

<https://globalchemistry.conferenceseries.com/>

(93)High Efficient Catalytic Degradation of Tetracycline and Ibuprofen Using Visible Light Driven Novel Cu/Bi₂Ti₂O₇/rGO Nanocomposite: Kinetics, Intermediates and Mechanism.

S.Shanavas, A.Priyadharsan, E.I.Gkanas, **R.Acevedo**, P.M. Anabarasan

Journal of Industrial and Engineering Chemistry. Received:5 November,2019. Received

in Revised Form:31 December,2018. Accepted: 8 January,2019.

(94)A Calculation Model of the General Theory of Interaction Potentials for Stoichiometric Lanthanide Type Crystals: Applications to the Cs₂KLnCl₆ System

- (95) Green synthesis and characterization of bioactive CuO nanoparticles and evaluation of its antifungal activity against *Aspergillus niger* and *Aspergillus flavus*
- (96) Synthesis, Spectroscopic Characterization and Molecular Docking Study of Ethyl 2-(4-(5, 9-dihydro-6-hydroxy-2-mercapto-4H-purin-8-ylthio) thiophen-2-yl)-2-oxoacetate Molecule for the Chemotherapeutic Treatment of Breast Cancer Cells
- (97) Synthesis, Spectral Analysis, Hirshfeld Interaction, Spectroscopic Characterization and Second Order Hyperpolarizability of 2-Amino-4-Methylpyridinium-4-Hydroxybenzoate Crystal
- (98) Mathematical Testing and Adjustment to Measure the In Situ Soaking of a Halite Brines Salts in Solar Pond
- (99) Molecular Design, Synthesis and electrochemical properties of three carbazole-based organic compounds as blue light-emitting Application
- (100) Molecular Structure, Charge Transfer Interaction and Biological Activity of 2, 6-diamine-7H-purine Studied Using Vibrational Spectroscopic and DFT, TD-DFT Computational Approach
- (101) Synthesis, Spectroscopic Analysis and Molecular Docking Evaluation of 6-mercaptapurine Based Compounds as Thyroid Inhibitor and Potential Anticancer Agent
- (102) Enhanced photocatalytic activity and kinetic studies of Congo red by shape controlled ecofriendly synthesis of CuO NPs.
- (103) Detailed Study on Synergetic Effect of (2D/3D/2D) rGO/Fe₂O₃/g-C₃N₄ Nanostructure and Its Application towards Photocatalytic Degradation of Tetracycline and Ciprofloxacin
- (104) Strategic Management and Leadership Concepts in Mergers & Acquisitions a Social Business View
- (105) The Economical Model of the Chicago's Boys - Chile a Case of Study
- (106) Modified Polymer Network Gel Preparation on Ag/ZnO Quasi sphere Nanocomposites with enhance structural optical properties.
- (107) Anti-fungal ovicidal and larvicidal efficacy of phytogenic synthesized ZnO Nanoparticles

Recent Conferences Delivered (June, 2016)

Conference Delivered, 2016. Exploring Corporate Social Responsibility with the Global Community. Medgar Evers College. The City University of New York. THE UNITED STATES OF AMERICA. June 14th-17th, 2016

(1) Corporate Social Responsibility and its Value to the Global Community. Plenary Discussion # 1. 10.30am-11.15 am. June 14th, 2016

Roberto Acevedo, Roger Kaufman

(2) Corporate Social Responsibility Throughout the Global Community: Models for New Entrepreneurs.

Roberto Acevedo, Michael Short, Mickael Peck, Wayne Brown. 12.15 pm-1.30 pm

(3) Collaboration for Social Enterprise Curriculum

Roberto Acevedo, Shirley Grant-Williams, Jackqueline Asaji Kisato

(4) Where do we go From Here: Implementation of Global Network linking CSR with New Entrepreneurs

Roger Green, Michael Short, Erastus Mong'are, Roberto Acevedo. 11.45am-12.30pm

(5) Closing Remarks

Jo-Ann Rolle, Danielle Moss, Roberto Acevedo, Erastus Mong'are.

(6) Preparing Students for Entrepreneurship Careers

Block 1 Friday, October 14th, 2016 01.30 PM-02.50 PM

ACSSP. Region 1 Fall Conference. October 14th and 15th, 2016.