**Roberto Acevedo**, PhD (03-03-2025)

"If what you are going to say is not more beautiful than silence, it is preferable that you smile and keep silent,"

Full Professor

Universidad de Chile, Universidad Mayor, Universidad San Sebastián

Google Scholar:

https://scholar.google.com/citations?view_op=list_works&hl=es&user=RvtSCSoAAAAJ

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

ORCID: https://orcid.org/0000-0001-6847-0285

FRONTIERS: loop.frontiersin.org/people/939295/overview

Scopus Author ID: 7003836387

I.-) **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

II.-) **Undergraduate and Postgraduate Studies**:

(2.1) Universidad de Chile. Facultad de Ciencias. Licenciado en Filosofía con mención en Química (1974

(2.2) University of London. King´s College and Birkbeck Colleges. Supervisors: Professor S.F.Mason. F.R.S. and Colin.D.Flint.. U.K. (1978-1981).

(2.3) University of Virginia. Charlottesville. Virginia. U.S.A. Postdoctorial Studies: Spectroscopy of Lanthanide Complex Ions in Elpasolite type crystals. Department of Chemistry (1982).

III.-) **Academic Distinctions and Research Position held Abroad**:

-Visiting Fellowship. University of Virginia, 1982

-Honorary Research Fellow : Birkbeck College. University of London. U.K.: 1984, 1985, 1990 and 1991

-Bursary of the E.C. 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 - A.S.I., 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. U.K., 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).

-Global Chief Editor: Journal Inglomayor. 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 (J.S.B.). 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, S.O.A. 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. Osolo. Norway

(https://chemistryeducation.chemistryconferences.org/abstract-submission.php)

-Member of the Editorial Board of many other peer review journals.

IV.-) **Academic Positions**:

(4.1) Profesor Titular. Jornada Completa Docente. Universidad San Sebastián. Agosto 2018- A la fecha.

(4.2) Director de Investigación y Desarrollo. Vicerrectoría de Desarrollo. Universidad Mayor (2012-2017)

(4.3) Decano. Facultad de Ingeniería. Universidad Mayor (2007-2012)

(4.4) Director de Investigación y Postgrados. Facultad de Ingeniería. Universidad Mayor (2007-2012).

(4.5) Docente e Investigador. Facultad de Ciencias Físicas y Matemáticas. Universidad de Chile (1974-2007)

(4.6) Profesor de Primera Categoría. Facultad de Ciencias Físicas y Matemáticas. Universidad de Chile. Junio 01,1991 a la fecha.

(4.7) Profesor Titular. Universidad de Chile. Junio 1991 a la fecha.

(4.8) Profesor Titular. Universidad Mayor. Agosto 2009 a la fecha.

(4.9) Miembro de la Comisión Normativa Transitoria de la Universidad de Chile (actual Senado Universitario). 4,5 años. Comisión de Estatutos.

(4.10) Miembro del Consejo de la Facultad de Ciencias Físicas y Matemáticas. Universidad de Chile. Período superior a 8 años, hasta Marzo, 2007.

V.-) **Research Interest**

*Linear and no 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.

VI.-) **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 luminiscent 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 antifluorite 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). Main Researcher: 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. Sweeden, 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-

VII.-) **Biography Data**

Roberto Acevedo (R.A.), PhD is a Professor and Researcher 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 three Universities: Universidad de Chile (UCh), Universidad Mayor (UM) and Universidad San Sebastián (USS)

He has been appointed in a variety of positions as academician and administrator, in relevant positions, among others, such as: Decano de la Facultad de Ingeniería (UM), Director de Investigación y Desarrollo (UM), Miembro de la Comisión Normativa Transitoria (UCh), Miembro del Consejo de Facultad. (Facultad de Ciencias Físicas y Matemáticas. UCh), Director del Departamento de Química (Facultad de Ciencias Físicas y Matemáticas. UCh). As for his studies are concerned, he became Licenciado en Filosofía con mención en Química. Universidad de Chile (1974), PhD at both Birkbeck and King´s Colleges. University of London (1981), Held a post doctorial position at the Chemistry Department. Charlottesville. University of Virginia, USA (1982).

His academic distinctions are postdoctoral position and fellowship at the University of Virginia, U.S.A. (1982), Honorary Research Fellow. The University of London. U.K. (1984, 1985, 1990, 1991), Bursary of the E.C. DG-XII (1991), Invited Speaker. Advanced Study Institute. NATO-ASI. Riva del Sole, Italy (1988), Invited speaker at the Schol of Business. Medgar Evers Colle. The City University of New York U.S.A., , Visiting Professor at the City University of Hong Kong (China), Wroclaw (Poland), New York (U.S.A.), Louvain (Belgium), School of Business. The City University of New York (U.S.A.) and the University of London (U.K.).

Global Editor in Chief. Electronic Journal. Inglomayor (www.inglomayor.cl) ISSN. 0719-7578, Editor of virtual library: www.roberto-acevedo.cl, among a number of other academic distinctions.

R.A. has focused his attention in both undergraduate and postgraduate lecturing and research, in state of the art, focused on a broad number of undergraduate and postgraduate students in different topics 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 and in Industrial and Applied Research in the Mining Industry in Chile. He has been the supervisor of many students: 12, working for their academic degrees of MSc, D.S.C., and over 90 students working for their Professional Titles. RA is a member of the Board of Editors in several journals: Journal of Social Business (J.S.B.). www.journalofsocialbusiness.net, ISSN: 2045-1083, Global Chief Editor of the electronic magazines: Inglomayor (www.inglomayor.cl) ISSN: 0719-7578, Chief Editor (www.roberto-acevedo.cl ).Science and Technology (www.roberto-acevedo.cl) and among other appointments; member of the International advisory committee. National seminar on the role of microalgae in waste-water treatment Odisha India (February 2017). He has also been a 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

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 peer review journals: 190 publications and Author of 17 Books. Many Conferences delivered in Chile and Abroad.

VIII.-) **International publications** (1981-2023)

**1981**

(1) Theoretical studies of the intensity mechanism of electronic transitions in coordination compounds

R.Acevedo

PhD Thesis. University of London, 1981

**1982 None**.

**1983 None**

(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 $^2E_g \rightarrow {}^4A_{2g}$ of $Cs_2MnF_6$

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 polarization calculations for the $^2E_g \rightarrow {}^4A_{2g}$ transitions of $MnF_6^{-2}$

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 polarization interference term for the vibronic intensities of centrosymmetric coordination compounds. A caveat and a correction

R. Acevedo, C.D. Flint

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

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

R. Acevedo, G. Díaz, C. D. Flint

Spectrochimica Acta A, 41 (12), 1397 (1985)

**1986**

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

R.Acevedo, C.D. Flint

Theoretica Chimica Acta (Berl.,), 69(3), 225 (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 coordinate analysis for the complex ions in and symmetries. Simplified molecular models.

R.Acevedo, G.Díaz

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

(14) Full normal coordinate 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 coordination 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 coordinate analysis. The ion

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

An.Quím, 84.B, 172 (1988)

(18) Vibrational analysis in coordination compounds. The ion in octahedral symmetry.

R.Acevedo, G.Díaz

An.Quím, 84. B, 176 (1988)

**1989**

(19) The theory of no radiative transitions in coordination 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 polarization model.

R.Acevedo, G. Díaz, T.Meruane

An.Quím, 86, 467 (1989)

(21) General valence force field and molecular dynamic parameters for cubic lanthanide hexachloride - 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 coordination 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 D3d

R. Acevedo, G. Díaz

An. Quím, 86 (7), 744 (1990)

(25) On the evaluation of the electric dipole transition moments in non centrosymmetric coordination 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 $\Gamma_8\left({}^2T_{2g}\right)\rightarrow\Gamma_8\left({}^4A_{2g}\right)$ electronic transition of the $\mathrm{Re}\,Br_6^{-2}$ in the $Cs_2ZrBr_6$

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

Spectrochimica Acta, 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

Theoretica Chimica Acta (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 in.

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**

(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

Theoretica Chimica Acta (Berl.,), 88, 99 (1994)

(32) Higher order vibronic interactions in centrosymmetric coordination 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 Instabilty 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 synnetry.

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

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

**1998**

(43) Spectroscopic Studies: Theoretical Models and Structural Characterisation

I.- The elpasolites where

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

Rev.Mex.Fís, 44. S1,29-31 (1998)

(44) Spectroscopic Studies: Theoretical Models and Structural Characterisation

II.- Synthesis and X-ray Powder Doffraction of the elpasolite

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 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 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 system

O.Hurtado, R. Acevedo, T.Meruane

Rev.Mex.Fís, 44.S1, 44-45(1998)

**1999** None

**2000** None

**2001**

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

I.- Aplicaciones a Sistemas del tipo

R.Acevedo, G.Muñoz, T.Meruane.

Rev.Mex.Fís, 47(3), 207(2001)

(50) Vibronic Oscillator Strengths of in

P.A.Tanner, R. Acevedo, T.Meruane, O.F.Hurtado.

J.Alloys Compounds, 323-324, 718 (2001)

(51) Vibronic Intensities for in

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 transition in the complex ion.

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

Acta Physica Polonica A, 99(2),215 (2001).

(53) Spectral Intensities. II.- The emission spectra for the system in the Fm3m space group.

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

Acta Physica Polonica A, 99 (2),233 (2001)

(54) Absorptions and Emissions for the ion in the

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

Acta Physica Polonica A, 100(6), 829(2001)

**2002**

(55) A Latticy Dynamic Model for the System in the 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) Spectral Intensities in Cubic Stoichiometric Elpasolites

The and Systems.

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

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

**2004**

(58) Spectral Intensities for the Emissions in the

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

Acta Physica Polonica A, 105,233(2004)

**2005**

(59) Síntesis y Caracterización Estructural de las Elpasolitas Estequiométricas de y

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

R.Acevedo, A.Soto-Bubert,C.Portillo, ,T.Meruane

Rev.Mex.Fís, 54(1),330(2005).

**2006** None

**2007**

(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, Wieslaw Strek.

Journal of Molecular Structure, 843(1-3),116(2007)

(62) Generalizad 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**

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

Roberto Acevedo, Andrés Soto-Bubert, Paul Bosch, Wieslaw Strek

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 and the systems.

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

(67) 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**

(68) 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**

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

Asian Journal of Spectroscopy, 14, 63(2010)

**2011 None**

**2012** None

**2013** None

**2014 None**

**2015**

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

Roberto Acevedo, Bernardo Javalquinto. Journal of Social Business,5(1),30-43(2015)

**2016**

(70) Exploring Corporate Social Responsibility with the Global Community

J.D.Rolle, Roger Kaufman, Iris Billy, Eric Harter, Bernardo Javalquinto, Roberto Acevedo, Wallace Ford, Emmanuel Egbe, Jacqui Kisato, Shirley Grant, Khasad Yahu Zarbaba, Erastus Mon´gare

4th International Academy Conference. Paris. (IAPC). 15ht-16th, August 2016. Abstract accepted. Paper is in progress. Deadline:July 22, 2016. Publication Release: Agust 15, 2016.

Conference proceedings: All accepted papers/abstracts will be published in the conference proceedings title: “The Business and Management Review”, both in

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(170) Kaur, Jasneet; Bhattu, Monika; Rawat, Mohit; Varma, Rajender S; Acevedo, Roberto; Shaban, Mohamed; Al-Saeedi, Sameerah I; Singh, Jagpreet; ,"Facile synthesis of carbon quantum dot/silver nanocomposite and its antimicrobial, catalytic and sensing applications",Environmental Research,237,,116919,2023,Academic Press

(171) Rajendran, Satheeshkumar; Montecinos, Rodrigo; Cisterna, Jonathan; Prabha, Kolandaivel; Rajendra Prasad, Karnam Jayarampillai; Palakurthi, Sushesh Srivatsa; Aljabali, Alaa A A; Naikoo, Gowhar A; Mishra, Vijay; Acevedo, Roberto; ,Enhanced Method for the Synthesis and Comprehensive Characterization of 1-(4-Phenylquinolin-2-yl) propan-1-one,ACS Omega,,,,2023,American Chemical Society

(172) The Development of the Lithium Industry in Chile: A Multifactorial Challenge

Vlamir Munoz, Andrés Soto-Bubert and Roberto Acevedo

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS

Vol. 14, No. 1&2, January–December 2023, pp. 1–8

(173) Mathematical Testing and Adjustment to Measure the in situ Soaking of Halite Brines Salts in the Solar Ponds

Andres Soto-Bubert1, Shajahan Shanavas2, Roberto Cabrales3 and

Roberto Acevedo

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS

Vol. 14, No. 1&2, January–December 2023, pp. 1–10

(174) Impact of Fleet Allocation on Production Indicators in Surface Mining

Elıas Tapia1, Camila Gonzalez, Jaime Mora, Andres Soto, Manuel Canovas

and Roberto Acevedo

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS

Vol. 14, No. 1&2, January–December 2023, pp. 1–15

(175) Analytical functions associated with the heat capacities CP(T). Relevant Species in the Copper metallurgy

Victoria Anza, Juan P Queupil, Andres Soto-Bubert, Rajendran Satheesh kumar

and Roberto Acevedo

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS

Vol. 14, No. 1&2, January–December 2023, pp. 1–10

(176) Trends in Nanotechnology Part I: Chile -Metallic Resource

Isidora F. Garrido, Andres Soto-Bubert and Roberto Acevedo

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS

Vol. 14, No. 1&2, January–December 2023, pp. 1–4

(177) Rare Earth Extraction and Processing, Efficiency, Costs and Environmental Risks

Roberto Acevedo*, Andrés Soto-Bubert, Benjamin Ramirez

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**2024**

(178) Green Synthesis of Silver Nanoparticles and their antimicrobial applications

Jasmeen Kaur., Himanshi Soni., Roberto Acevedo., Meenakshi Verma

ES3. Web of Conference, **509**, 01017(2024)

(179) Recent Advances in green synthesis of carbon dots for heavy metal ion sensing

Himanshi Soni., Jasmeen Kaur., Roberto Acevedo., Meenakshi Verma., Monika Bhattu

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(180) Green synthesis of carbon dots for sensing of heavy metal ions: Bibliometric analysis from 2003-2024

Himanshi Soni., Jasmeen Kaur., Roberto Acevedo., Meenakshi Verma

ES3 Web of Conference, **509**, 01004(2024)

(181) Stochastic Locomotive of Nanofluid(s)

Rashmi Bhardwaj, Roberto Acevedo

Springer Nature Singapore Pte Ltd. 2024 G. Arulprakash et al. (eds.), Mathematical Modelling of Complex Patterns Through Fractals and Dynamical Systems, Studies in Infrastructure and Control, https://doi.org/10.1007/978-981-97-2343-0_8

(182) Density modeling of chlorinated brines in two and three-component systems

Andrés Soto-Bubert, Joaquin Miranda, Rashmi Bhardwaj, Satheeshkumar Rajendran, Roberto Acevedo.

Chemical Thermodynamics and Thermal Analysis, **15**,100137(2024)

(183) Models for predicting the monetary value and number of transactions in a Neobank.

Mauricio Sepúlveda, Barbara Valenzuela, Danilo Gómez, Sebastián Manriquez, Roberto Acevedo.

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS Vol. 15, No. 1&2, January–December 2024, pp. 1–17

(184) Automatic generation of recursive algorithms for list manipulation.

Mauricio Sepúlveda, Víctor Parada, Juan Parra, Roberto Acevedo.

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS Vol. 15, No. 1&2, January–December 2024, pp. 1–15

(185) Density Modelling of Chlorinated Brines on Symbolic Regression

Mauricio Sepúlveda, Andrés Soto-Bubert, Roberto Acevedo

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(186) Optimization of iron nanoparticle size through green synthesis using leaf extract from selective members of citrus family

Samavia Sajid, Aeysha Sultan, Ashi Rashid, Tahir Mehmood, Andrés Soto-Bubert, Roberto Acevedo, Maryam Zahra, Bushra Nisar, Zeshan Ali Sandhu, Noreen Sajjad

Journal of the Indian Chemical Society, 101, 101297, 2024

(187) Comparative analysis of Physical and Mechanical properties of starch base bioplastic derived from pulp and peel production

Aeysha Sultan, Hira Sultan, Waseem Shahzad, Aftaab Kareem, Aqsa Liaqat, Zaman Ashraf, Ayesha Shahid, Abdul Rauf, Shagufta Saeed, Tahir Mehmood, Mary am, Andres Soto-Bubert, Roberto Acevedo

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(188) Rare earth processes. A review on Industrial Applications

Araceli Rodriguez, Nayareth Muñoz, Benjamín Ramírez, Andrés Soto-Bubert,

Mauricio Sepúlveda, Satheeshkumar Rajendran, Roberto Acevedo

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS Vol. 15, No. 1&2, January–December 2024, pp. 1–26

(189) Semi-empirical model for calculating the viscosity of KF aqueous solution

Andrés Soto-Bubert, Laura Spinell, Mauricio Sepúlveda, Roberto Acevedo

INDIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS Vol. 15, No. 1&2, January–December 2024, pp. 1–11

(190) Limonite levels under macroscopic observations at the La Palmera underground mine. Chancón Mining District. VI Region, Chile.

Diego Onetto, Andres Soto-Bubert, Vlamir Muñoz, Mauricio Sepulveda, Roberto Acevedo.

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(191) Green synthesis of Silver Nanoparticles and their antimicrobial applications

Jasmeen Kaur, Himanshi Soni, Roberto Acevedo , and Meenakshi Verma

E3S Web of Conferences 509, 01017 (2024)

ICONN-2023

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(192) A comprehensive review on the potential of copper spinel ferrite for gas sensing application

Himanshi Soni, Roberto Acevedo, Nammrta Singh, Pushpender Sharma and Zaid Ajzan

E3S Web of Conferences 509, 01017 (2024)

ICONN-2023

https://doi.org/10.1051/e3sconf/202450901017

(193) NiO as a promising photocatalyst for wastewater purification: A review

Monika Bhattu, Roberto Acevedo, and Merwa Alhadrawi

E3S Web of Conferences 509, 01017 (2024)

ICONN-2023

https://doi.org/10.1051/e3sconf/202450901017

(194) Structural, Magnetic, and Catalytic traits of Nickel Ferrite: A review

Himanshi Soni, Roberto Acevedo, S. Obad and Bharat Kumar

E3S Web of Conferences 509, 01017 (2024)

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(195) A comprehensive review on the synthesis routes, properties and potential applications of ZnFe2O4 ferrites

Monika Bhattu1, Roberto Acevedo, and A. H. Shnain

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(196) Green Synthesis of Bio-additives for Food Processing

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In: Sattar Jatoi, A., Mubarak, N.M. (eds) Application of Bio-Additives for the Food Industry pag. 15-28. Springer,2024

**2025**

(197) Pharmaceutical Applications of Eucalyptol in the Pharmaceutical Industry

R. Acevedo

Plant Biotechnology Persa, **7(1)**,0-0,2025

(198) Viscosity modelling of chlorinated brines in three-component systems

with a continuously variable temperature range between 293-323 K

Andres Soto-Bubert, Rashmi Bhardwaj, Satheeshkumar Rajendran, Roberto Acevedo

Chemical Thermodynamics and Thermal Analysis V.18 - Pág.100-162.

(199) Heterostructure semiconductor nanomaterials–based sensors for the detection of pollutants

Himanshi Soni, Jasmeen Kaur, Roberto Acevedo, Monika Bhattu

Environmental Remediation in Agri-Food Industry Using Nanotechnology and Sustainable Strategies Pág. 169-177.

(200) Industrial and urban wastewater treatment, disinfection, and reuse by using advanced oxidation process

Monika Bhattu, Meenakshi Verma, Roberto Acevedo, Jagpreet Singh

Environmental Remediation in Agri-Food Industry Using Nanotechnology and Sustainable Strategies Pág. 81-94.

(201) Application of functional nanomaterials in photocatalysis, air pollutants degradation, hydrogen production, and carbon dioxide reduction

Gurpreet Kaur, Himanshi Soni, Roberto Acevedo, Monika Bhattu, Jagpreet Singh Pág. 95-105.

(202) Modeling the density of chlorinated brines with nonlinear multivariate regressions.

Roberto Acevedo, Mauricio Sepúlveda, Thierry De Saint Pierre Sarrut, Andrés Soto-Bubert, Rashmi Bhardwaj
Chemical Thermodynamics and Thermal Analysis

X.-) **Books**

(1) Strategic Management and Leadership Concepts in Mergers & Acquisitions a Social Business View (In Amazon,2019)

Roberto Acevedo, Bernardo Javalquinto

(2) Light Manual for Strategic Management and Leadership Concepts In Mergers & Acquisitions A Social Business Vision (In Amazon,2019)

Roberto Acevedo, Bernardo Javalquinto (2021)

(3) Apuntes de Termodinámica Aplicada a la Minería. ICMI E 003

Andrés Soto-Bubert, Roberto Acevedo Llanos, Gustavo Navarro Ahumada (2021)

(4) Apuntes de Química General. Estructura Atómica y Molecular.

Andrés Soto Bubert, Roberto Acevedo Llanos (2021)

(5) Potenciales de Interacción en Cristales Iónicos. Aplicaciones en Termodinámica de Elpasolitas Estequiométricas

Andrés Soto Bubert, Roberto Acevedo Llanos (2021)

XI). **Proyectos de Vinculación con el Medio (VcM). Universidad San Sebastián. VcM**

Minería en la Ruta del Cobre. Código: ID1562. Fuente de Financiamiento. USS. VcM (2019)

XII.-) **Recent Conferences Delivered and Supervisor of undergraduate Students**

**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 Responsabilty and its Value to the Global Community. Plenary Discussion # 1. 10.30am-11.15 am. June 14 th, 2016

Roberto Acevedo, Roger Kaufman

(2) Corporate Social Responsability 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, Jacqueline 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 14 th and 15 th, 2016.

**2018**

(7) Renio. Un desafío tecnológico.

Erick Fabián Montecinos Castañeda. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

**2019**

(8) The future and learning in the unscaled economy.

J.D.Rolle, J.Kisato,M.Crump,A.Reid,R.Acevedo, N.Rock

Daffodil International University. Bangladesh. ICGEEE, 2019

(9) Fisicoquímica de Uranio

Constanza Valentina González Acuña. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(10) Cerio y Praseodimio. Aplicaciones Tecnológicas

Diego Ignacio Cortés Orrego. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(11) Propiedades fisicoquímicas en La y Nd y, análisis económico-tecnológico de la industria de las tierras raras

Miguel Herrera Cifuentes. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(12) Desalinización del agua de mar mediante el método de congelamiento. Fusión para faenas mineras. II.-Región de Chile

Milagros Estefanía Rosas Nuñez. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(13) Investigación y Análisis de estructuración de lantánidos y su aplicación a la industria minera

Fernando Andrés Jiménez Ortega. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

**2020**

(14) Business trends in the unscaled economy. Global trends in Business Practices and Management Economy.

J.D.Rolle, J.Kisato,M.Crump,A.Reid,R.Acevedo, N.Rock

Bhubaneswar., Odishia. India, 2020.

(15) Recuperación de aguas lluvias por el fenómeno “invierno antiplánico” con la ayuda geológica y geográfica desde Calama hasta San Pedro de Atacama y utilización de éstas en la minería cercana.

Srta. Victoria Andrea Anza Vergara Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(16) Desalinización y técnicas analíticas de purificación de agua marina

Srta. Maria José Martínez Stuardo. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(17) Técnicas especiales de instrumentación y caracterización de materiales en minería

Sr. Sebastián Benjamín Ulloa Araneda. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(18) Energías renovables no convencionales (ERNC) y influencia en la Minería

Sr. Felipe Rodrigo Cañas Quintanilla. Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(19) Producción de energía a partir de aguas residuales

Sr. Sebastián Andrés Norambuena Barrera Supervisor. Roberto Acevedo. Facultad de Ingeniería y Tecnología. Universidad San Sebastián.

(20) Concentración de Zeolita a partir de Toba Zeolitizada de Quinamávida". Ing. Sergio Moreno, MSc. Jaime Calderón, MSc. Vlamir Muñoz, Dr. Andres Soto- Bubert, PhD Roberto Acevedo. Universidad San Sebastián. 70º Convención del Instituto de Ingenieros de Chile. 20.25, November,2020

(21) Reflexiones sobre desafíos en la Educación Superior en Minería". Dr. Andrés Soto-Bubert, MSc. Vlamir Muñoz, PhD Roberto Acevedo. Universidad San Sebastián. 70º Convención del Instituto de Ingenieros de Chile. 20.25, November,2020

**2021**

(22) Energías Renovables no Convencionales (ERNC) como Motor Energético para la Minería Nacional.

Felipe Rodrigo Cañas Quinta. Supervisor. Roberto Acevedo

(23) Desalinización de agua de mar, mediante membranas de óxido de Grafeno para faenas mineras en Antofagasta

María José Martínez Stuardo. Supervisor. Roberto Acevedo

(24) Producción de Energía a partir de aguas residuales

Sebastián Andrés Norambuena Barrera. Supervisor. Roberto Acevedo

(25) Técnicas Especiales de Instrumentos y Caracterización de Materiales en Minería

Sebastián Benjamín Ulloa Araneda. Supervisor. Roberto Acevedo

(26) Estudio de Factibilidad de uso de agua lluvia causada por el invierno Altiplánico en la gran Minería del Cobre en la Región de Antofagasta

Victoria Andrea Anza Vergara. Supervisor. Roberto Acevedo

(27) Reutilización de aguas grises en aplicación en Campamentos Mineros y Sector Inmobiliario general

Esteban Alejandro Sepúlveda Muñoz. Supervisor. Roberto Acevedo

(28) **Proyectos de titulo**

| NRC | Semestre | Estudiante | Nombre proyecto de título |
|---|---|---|---|
| 10431-ICMI 1033 | Segundo semestre 2018 | Erik Montecino | Renio. Un desafío tecnológico. |
| | | Daniel Álamos | Chilean Export of Lithium Carbonate. Production Chain and Market Variables |

| | | | |
|---|---|---|---|
| | | Luciano Altamirano | Experimental Study Recovery Potassium by leaching a mixture salt Halita- Silvita, using saturated brine Halite agent leached like |
| 21248-ICMI 1033 | Primer semestre 2019 | Fernando Jiménez | Investigación y Análisis de estructuración de lantánidos y su aplicación a la industria minera |
| 15543 ICMI J004 | Segundo semestre 2020 | Felipe Cañas | Energías renovables no convencionales (ERNC) y influencia en la Minería |
| | | Sebastián Norambuena | Producción de energía a partir de aguas residuales |
| | | Sebastián Ulloa | Técnicas especiales de instrumentación y caracterización de materiales en minería |
| | | Victoria Anza | Recuperación de aguas lluvias por el fenómeno “invierno antiplánico” con la ayuda geológica y geográfica desde Calama hasta San Pedro de Atacama y utilización de éstas en la minería cercana. |
| | | María Martínez | Desalinización y técnicas analíticas de purificación de agua marina |
| 23864-ICMI J004 | Primer semestre 2021 | Esteban Sepúlveda | Reutilización de aguas grises en aplicación en Campamentos Mineros y Sector Inmobiliario general |
| 9831-ICMI J004 | Segundo semestre 2021 | Elizabeth Cubillos | |
| | | Ángel Granados | |
| | | Eduardo Venegas | |
| | | Rodrigo Cordero | |
| 10255-ICMI J004 | Segundo semestre 2022 | Ricardo Castro | |
| | | Isidora Garrido | |
| | | Karoly Hueico | |
| | | Sebastián Duarte | |
| | | Rodrigo Pavez | |

| | | | |
|---|---|---|---|
| 25906-ICMI J004 | Primer semestre 2023 | Benjamín Ramírez | |
| ICMI J004 | Primer semestre 2024 | | |
| ICMI J004 | Primer semestre 2024 | | |

(29) **Cursos dictados**

| NRC | Nombre curso | Escuela | Carrera | Año |
|---|---|---|---|---|
| 10165-ICMI 1035 | Minería Recursos no Metálicos | Ingeniería y Tecnología | ICMI | 2018 |
| 10431-ICMI 1033 | Proyecto de titulo | Ingeniería y Tecnología | ICMI | 2018 |
| 10413-ICMI 1010 | Fisicoquímica | Ingeniería y Tecnología | ICMI | 2018 |
| 6154-ICIV 1003 | Ingeniería de materiales | Ingeniería y Tecnología | ICIV | 2018 |
| 14355-INGE 1428 | Termo fluidos | Ingeniería y Tecnología | INGE | 2019 |
| 21248-ICMI 1033 | Proyecto de titulo | Ingeniería y Tecnología | ICMI | 2019 |
| 21247-ICMI 1033 | Proyecto de titulo | Ingeniería y Tecnología | ICMI | 2019 |
| 10710 ICMI 1010 | Fisicoquímica | Ingeniería y Tecnología | ICMI | 2019 |
| 11914 INGE 1428 | Termo fluidos | Ingeniería y Tecnología | INGE | 2020 |
| 11663 IESA G003 | Introducción seminario de título | Ingeniería y Tecnología | IESA | 2020 |
| 11889 ICMI E003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2020 |
| 2569-INGE 1429 | Ciencia de los materiales | Ingeniería y Tecnología | INGE | 2020 |

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|---|---|---|---|---|
| 15543 ICMI J004 | Proyecto de titulo | Ingeniería y Tecnología | ICMI | 2020 |
| 2402 ICMI F005 | Fisicoquímica | Ingeniería y Tecnología | ICMI | 2020 |
| ICMIG005 | Inglés de especialidad | Ingeniería y Tecnología | ICMI | 2021 |
| ICMIF005 | Fisicoquímica | Ingeniería y Tecnología | ICMI | 2021 |
| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2021 |
| ICIAD002 | Termofluidos | Ingeniería y Tecnología | ICIA | 2021 |
| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2021 |
| ICMIE001 | Ciencia y resistencia de los materiales | Ingeniería y Tecnología | ICMI | 2021 |
| ICMIE003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2021 |
| ICMIE003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2021 |
| INGE1428 | Termofluidos | Ingeniería y Tecnología | ICMI | 2021 |
| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2021 |
| INGE1428 | Termofluidos | Ingeniería y Tecnología | ICMI | 2021 |
| INGE1428 | Termofluidos | Ingeniería y Tecnología | ICMI | 2021 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2021 |
| ICIAD002 | Termofluidos | Ingeniería y Tecnología | ICIA | 2022 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |

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|---|---|---|---|---|
| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2022 |
| CMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2022 |
| ICMI1041 | Recursos hídricos para la minería | Ingeniería y Tecnología | ICMI | 2022 |
| ICMIF005 | Fisicoquímica | Ingeniería y Tecnología | ICMI | 2022 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |
| ICIAD002 | Termofluidos | Ingeniería y Tecnología | ACIA | 2022 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |
| FITA0066 | Mecánica | Ingeniería y Tecnología | ICMI | 2022 |
| INGE1428 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |
| ICMIE003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2022 |
| ICMIE001 | Ciencia y resistencia de los materiales | Ingeniería y Tecnología | ICMI | 2022 |
| ICMIE003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2022 |
| INGE1428 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |
| INGE1428 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |
| FITA0070 | Electricidad y magnetismo | Ingeniería y Tecnología | ICMI | 2022 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |

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|---|---|---|---|---|
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2022 |
| FITA0066 | Mecánica | Ingeniería y Tecnología | ICMI | 2022 |
| CMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2023 |
| QUI1033 | Química general | Ingeniería y Tecnología | ICMI | 2023 |
| DQUI1033 | Química general | Ingeniería y Tecnología | ICMI | 2023 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2023 |
| ICMIF005 | Fisicoquímica | Ingeniería y Tecnología | ICMI | 2023 |
| ICMIE001 | Ciencia y resistencia de los materiales | Ingeniería y Tecnología | ICMI | 2023 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2023 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2023 |
| ICMIE003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2023 |
| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2023 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2023 |
| ICIAD002 | Termofluidos | Ingeniería y Tecnología | ICIA | 2023 |
| ICIAD002 | Termofluidos | Ingeniería y Tecnología | ICIA | 2023 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2023 |
| ICMIE003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2023 |

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| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2023 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2023 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2024 |
| ICIAD002 | Termofluidos | Ingeniería y Tecnología | ICMI | 2024 |
| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2024 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2024 |
| ICMIE001 | Ciencia y resistencia de los materiales | Ingeniería y Tecnología | ICMI | 2024 |
| ICMIE003 | Termodinámica para la minería | Ingeniería y Tecnología | ICMI | 2024 |
| ICMIG005 | Ingles de especialidad | Ingeniería y Tecnología | ICMI | 2024 |
| FITA0069 | Termofluidos | Ingeniería y Tecnología | ICMI | 2024 |
| ICMIF005 | Fisicoquímica | Ingeniería y Tecnología | ICMI | 2024 |
| ICMIJ004 | Proyecto de título | Ingeniería y Tecnología | ICMI | 2024 |