CURRICULUM

Edilso Reguera

Información Personal:

Sexo: Masculino

Fecha de Nacimiento. Enero 26 de 1951

Centro de Adscripción:

Centro de Investigación en Ciencia Aplicada y Tecnología Avanzada del IPN, Unidad Legaria, Legaria 694, Colonia Irrigación, Delegación Miguel Hidalgo, C.P. 11500, México DF: Tel. 57296000 ext. 67760. Email: ereguera@yahoo.com

Dirección particular: Edificio 71, Entrada A, Dpto 302, Unidad Loma Hermosa, Colonia Irrigacion, Del M. Hidalgo, México DF, CP 11200-CR-11411, Tel: 55570830

Formación académica:

1972-1977: Lic. En Física, Universidad de La Habana, Cuba
Título la Tesis: Distribution of carbon in welded unions of carbon steel
1977-1980: Estudios de Posgrdao: Crystallography, University of Las Villas, Cuba
1984-1987: Doctorado en Ciencias Químicas, Centro Nacional de Investigaciones Científicas, La Habana, Cuba
Título de la Tesis: Phase transformations in pyrito-polymetallic minerals
Supervisores: Drs. V. Nikolaev and A. Dago
2009 Dr. in Sc. (Doctorado de 2do nivel)), Universidad de La Habana, Enero 2010
Título de la Tesis: Hexacyanometallates and Nitroprussides of Transition Metals: Physical Properties

Empleos:

1977-1980: Graduated Instructor for Physics, Central University of Las Villas, Cuba
1980-1992: Assistant Researcher, National Center for Scientific Research, Havana, Cuba
1992-1995: Full Researcher, National Center for Scientific Research, Havana, Cuba;
General Vice-Director and Director of the Chemistry Division, National Center for Scientific Research, Havana, Cuba.
1996- Full Researcher, Institute of Materials and Reagents, University of Havana, Cuba
Head of the Scientific Council of the Faculty of Physics and Materials Institute, Havana University
1997-1999: CONACyT Patrimonial Position, Level II, Mexico
1999-2001: Full Professor, National Polytechnic Institute, CICATA-Unidad Legaria, Mexico
2005- Full Professor, National Polytechnic Institute, CICATA-Unidad Legaria, Mexico
2007- National Researcher Level III (SNI III), Mexico

Idiomas:

	Reading	Writing	Speaking
Spanish:	native		
English:	3	3	2
Russian:	1	1	1

Scale: 1 (basic) to 3 (fluent)

Aéreas de Investigación:

1) Solid State Physics and Chemistry; Reactions, Structure and Properties
2) Development of Materials by Molecular Blocks Assembling
3) Functional Molecular Materials: Porous Structures, Molecular Magnets, Molecular Transducers
4) Nanotechnology of Molecular Materials
5) Materials for Hydrogen Technologies

Técnicas:

1) Mössbauer Spectroscopy and Related Structural Tecniques (CPMAS NMR, ESR, ..)
2) Vibrational Spectroscopies (IR and Raman); XRD, EXAFS, XANES, SEM, TEM, ..
3) Crystal Structure and Surface Properties: XRD, Adsorption, NMR,…

Experiencia docente:

Supervisor of B. Sc. Thesis:

- Martha Martínez: *Thesis Title*: "Distribution Functions Calculation in Mössbauer Spectroscopy"; Univ. Havana, 1993.
- Jorge González: *Thesis Title*: "Numerical analysis Applications to Mössbauer Spectroscopy", Univ. Havana, 1994
- Karelia Ocegueda: *Thesis Title*: "On the iron state in SiO_2 glasses"; ESFM, IPN-Mexico, 2000.
- Gabriela Sánchez-Andrade: *Thesis Title*: "Inclusion compounds of amilose"; UNAM-Mexico, 2001

b) Supervisor of M. Sc. Thesis:

- Ariel Gómez: Thesis title: "Structural transformations in insoluble nitroprussides"; Univ. Havana, 1997
- Herlinda Montiel-Sánchez: *Thesis title*: "On the interactions of microwaves with transition metal complexes" ; ESFM, IPN-Mexico, 1999.
- Juan E. García-Ramírez: *Thesis title*: "Phase Analysis in Corrosion Products of Carbon Steel in Seawater"; ESFM, IPN-Mexico, 2000
- Karelia Ocegueda-Hernández: *Thesis title*: "On the Calcium Interactions with the Corn Grain Components During the Nixtamalization Process"; ESFM, IPN-México, 2000.
- Jorge Balmaseda-Era: *Thesis title*: "Mössbauer Spectroscopy of Microporous Solids"; Univ. Havana, 1999
- Guerlin Quintana: *Thesis title*: "Solid state reactions during alkali halide pressed disk for Infrared Spectroscopy"; Univ. Havana, 1999
- Ricardo Martínez-Garcia: *Thesis title*: "Synthesis and characterization of nano-structured ferrites"; Univ. Havana, 2000
- Jorge Roque de la Puente: *Thesis Title*: "Adsorption of vapors and gases in microporous cyanometallates"; Univ. of Havana, 2004
- Joelis Rodríguez Hernández: *Thesis Title*: "Applications of the Radial Distribution Function and of the pattern background in the Crystal Structure Determination from XRD powder patterns"; Univ. Havana, 2004
- Cristina Pérez Krap. *Thesis Title*: "Materials potentially useful for hydrogen storage". CICATA-IPN, Unidad Legaria, June 2007
- Manuel Avila Santos: Thesis Title: "Crystal Structure of Molecular Materials: Solution and Refinement from XRD powder patterns", CICATA-IPN, Unidad Legaria, November 2007
- Sofia Romero Vargas: Thesis Title: "Structural Study and Analysis of Mixed Valenece States in Transition Metals Hexacyanoferrates (II,III)", ESFM-IPN, Ocober 31, 2007
- Alvaro Gordillo Sol: Thesis Title: Behavior of Porous Nitroprussides and Prussian Blue Analogues from Mossbauer Spectra", ESFM-IPN, March 12, 2008
- *Alejandro Alvarez Paneque: Titulo de la Tesis: Síntesis and Characterization of Nanoferrites.* Univ. Havana, July 2008
- *Johan Gonzalez Moya: Thesis Title: Controlled Growth of CdS Quantum Dots.* Univ. Havana, July 2008
- *Blanca Estela Zamora Reynoso: Thesis Title: Oxygen and Nitrogen Separation by Porous Cyanometallates*. CICATA-IPN, December 2008

- *Juan Jimenez Gallegos: Thesis Title: Crystal Structures and Related Properties of Copper Hexacyanometallates*. ESFM, IPN, January 2009
- *Claudia Noemí Vargas Hernandez:* Preparation of porous imidazolates using solvothermal techniques. CICATA-IPN, July 2009
- *Arianee Saínz Vidal:* Adsorption and Separation of volatile organics compounds using porous hexacyanometallates. CICATA-IPN, Julio 2009
- *Maria del Carmen Tellez Juarez*: Preparation and characterization of copper oxides nanostructures. CICATA-IPN, January, 2010
- *Marlene Gonzalez Montiel*: Thermal behavior of cobalt nanostructures. CICATA-IPN, January, 2010
- Viviana Figueroa Espí: Biological Applications of Functionalized Superparamagnetic Nanoparticles, Univ. Habana, February, 2010
- Osiry Hernandez Silva: Solution and refinement of crystal structures using powder X-ray diffraction data, CICATA-IPN, January 2012.
- Cindy Arianna Sámano Alonso: Study on gases and vapors separation by metal-organic frameworks using inverse gas chromatography, CICATA-IPN, June 2012
- Claudia Gpe. León Lara: Preparation of hybrid nanomaterials from silica and furfuryl alcohol; CICATA-IPN, January 2012.
- Rene Salvador Lopez Cabrera: Metal-Organic Frameworks: Study of their stability under cryogenic conditions using XRD data; CICATA-IPN, January 2012.
- Neil Torres Figueredo: Cu-BTC and Fe-BTC metal organic frameworks: Their applications for H2, CH4 and CO2 storage; CICATA-IPN, December 2014
- Arely Cano Martinez: Metal nitroprussides of atypical coordination; CICATA-IPN, December 2014
- Juan Luis Silva
- Greter Ortega
- Frank Echevarria Castillo
- Giraldo Contreras Martinez
- Alejandro Rodriguez Rodríguez

c) Supervisor of Ph. D. Thesis:

- Armando Paneque-Quevedo: *Thesis title:* "Synthesis and Characterization of Hemin Complexes"; Havana Univ., 2002.
- Ariel González: *Thesis title:* "Crystal Structure Resolution from XRD Powder Patterns in Molecular Materials Based on Prussian Blue Analogues"; Havana Univ., 2002.
- Alma Valor-Read: *Thesis title:* "Calcium Binding During Corn Nixtamalization: Study of calcium Salts Of Aliphatic Carboxilic Acids"; CICATA, IPN-México, 2002.
- Jorge Balmaseda-Era: *Thesis title:* "Evaluation of the surface structure and adsorption potentials in molecular microporous materials Obtained from the Assembling of Molecular Blocks: $[Fe(CN)_6]$ and $[Fe(CN)_5NO]$"; Havana Univ., 2003.
- Julio Duque-Rodríguez: *Thesis titl*e: "Determination and Refinement of 1,4 dihydropyridine Analogues Crystal Structure: Conformational Studies"; Havana Univ., 2004.
- Osvaldo Estévez-Hernández: Thesis Title: "Furoylthioureas: Nature of their complexes with $CdCl_2$ and $HgCl_2$ and Applications to Electrochemical Sensors"; University of Cádiz, Spain, 2006.
- Ricardo Martínez-García: "Structural Refinement of Hexacianometellates, Thermal Induced Phenomena, and Related Magnetic Properties"; University of Havana, 2006
- Joelis Rodríguez-Hernández: Thesis Title: "Atypical Coordination in Hexacyanometallates and Nitroprussides. Implications in their Physical Properties"; University of Havana, 2007
- Leslie Reguera Nunez: Thesis Title: "Hydrogen Storage in Porous Cyanometallates", concluded January 7, University of Havana, 2009
- Cristina Pérez Krap: Thesis Title: "Hydrogen Storage in Nanocavities", concluded June 2010, CICATA-IPN, México
- Pablo Colindres Bonilla: Thesis Title: "Wastewater Treatment for Water Reuse in Textil Industry", concluded December 16, 2010, CICATA-IPN, México

- Carlos I. Aguirre Velez: Thesis Title: "Pigments Base don Colloidal Photonic Crystals", concluded January 14, 2011, CICATA-IPN, México
- Manuel Avila Santos: Crystal Structure of Molecular Materials: Solution and Refinements from X-ray Diffraction data, concluded June 29, 2011, CICATA-IPN, México
- Omar Reyes Martínez: Dehydration Process of Hoffman-Type Layered Solids, concluded January 7, 2013, CICATA-IPN, México
- Blanca E. Zamora Reynoso: Hydrogen storage in titanium nanotubes-Prussian blue analogues composites, concluded January 8, 2013, CICATA-IPN, México
- Juan Jimenez Gallegos: Crystal Structure of Prussian blue and Hydrogen Storage, concluded January 14, 2013, CICATA-IPN, México
- Claudia N. Vargas Hernández: Synthesis, Characterization and Evaluation of Molecular Nanoporous Solids, May 20, 2013, CICATA-IPN, Mexico
- Jorge Roque de la Puente: Adsorption of Supercritical Gases at High Pressures in Nanoporous Molecular Solids, June 2013, CICATA-IPN, Mexico
- Carmen Tellez Juarez: Hydrogen Storage in Activated Carbons; December 2013, CICATA-IPN, México
- Marlene González Montiel: Molecular Magnets; January 2014, CICATA-IPN, México
- Oscar Fernando Odio Chacón:
- Alma L. Garcia Ortiz:
- Osiry Hernandez Silva:

d) Professor of Regular (undergraduated) Courses:

- Professor of some Regular Courses of Physics at University of Las Villas (1977-1980), Cuba;
- Professor of Applied Physics at University of Havana (1997-2001), Cuba.

e) Professor of M.Sc. and Ph. D. Courses:

- Professor of Mat. Chemistry, Institute of Materials Science and Technology, Univ. of Havana, Cuba (1997-2005)
- Professor of Vibrational Spectrosc. and their Applications, Faculty of Physics, Univ. of Havana, Cuba (1997-2005)
- Professor of Mössbauer Spectroscopy and Related Techniques, ESFM,IPN-Mexico (1997-2001)
- Professor of Solid State Chemistry and Physics, CICATA, IPN, Mexico (2005-)
- Professor of Spectroscopies Applied to Solid State Chemistry and Physics, CICATA, IPN, Mexico (2005-)

Premios al Trabajo Científicos:

- Annual Award of Cuban Academy of Science, 2000, by the contribution to the Chemical Reactions in the Solid State".
- Annual Award of Havana University, 2002, to The Best Professor in the Research Activity.
- Annual Award of Havana University, 2002, to The Scientific Contribution of Highest Trascendence and Originality.
- Annual Award of the Havana University, 2002, to The Best Scientific Contribution in the Food and Biotechnology Branch.
- Annual Award of Cuban Academy of Science, 2003, by his contribution to the Development of Molecular Materials based on the Assembling of Transition Metals through CN Ligands.
- Annual Award of Havana University, 2003, to The Best Professor in the PhD Thesis Supervision Activity.
- Annual Award of Havana University, 2004, to The Circunstantial Result of Highest Trascendence.
- Annual Award of the Cuban Academy of Science, 2004, by his contribution to the Carbohydrates Interactions with Cations and Anions.
- Special Award of the Cuban Ministry for High Education, 2004, by his annual results in the postgraduated education and research activities.
- National Researcher Level III, CONACyT, Mexico.
- Annual Award of the Cuban Academy of Science, 2006, by his contribution to The Electron Microscopy Study of Nanocrystalline Magnetic Materials".

- Annual Award of Havana University, 2006, to The Best Professor in the Research Activity.
- Annual Award of Havana University, 2006, to The Scientific Contribution of Highest Trascendence and Originality.
- Annual Award "Havana University, 2006", to Contribution to the Knowledge on the Structure and Properties of Several Families of Molecular Materials.
- Special Award of the Cuban Ministry for High Education, 2006, by his annual results in the postgraduated education and research activities.
- Annual Award of the Cuban Academy of Science, 2006, by his contribution to the Study of Molecular Porous Materials Based on Nitroprussides and Prussian Blue Analogues.
- Annual Award of Havana University, 2007, to The Scientific Contribution of Highest Trascendence and Originality: "New Contributions on the Study of Molecular Magnets Based on Prussian Blue Analogues "
- Annual Award of Havana University, 2007, to The Best Professor in the Research Activity.
- Annual Award of the Cuban Academy of Science, 2007, by his contribution to "New Contributions on the Study of Molecular Magnets Based on Prussian Blue Analogues ".
- Annual Award of the Cuban Academy of Science, 2007, by his contribution to "Substituted FuroylThioureas: Fundamentals for a Cadmium Sensor ".
- Special Award of the Cuban Ministry for High Education, 2007, by his annual results in the postgraduated education and research activities.
- Annual Award of the Cuban Agency for Nuclear Energy and Advanced Technology, 2008, by the result entitled "Materials Characterization Using Photo-Acoustic Techniques"
- Annual Award of Havana University, 2008, to The Scientific Contribution of Highest Trascendence and Originality: "Hydrogen Storage in Nanocavities"
- Annual Award of Havana University, 2008, to The Best Professor in the Research Activity.
- Annual Award of the Cuban Academy of Science, 2008, by his contribution to "Hydrogen Storage in Nanocavities".
- Annual Award of the Cuban Academy of Science, 2008, by his contribution to "Determination of Iron Species in Natural Cuban Clinoptilolite".
- Annual Award 2009: To the Director of the best M.Sc. Thesis of IPN-Mexico in 2009
- Annual Award 2010: To the Director of the best Ph. D. Thesis of IPN-México in 2010
- Annual Award 2011: To the Director of the best Ph. D. Thesis of IPN-México in 2011
- Annual Award for Basic Research at IPN, 2012
- Annual Award 2011: To the Director of the best Ph. D. Thesis of IPN-México in 2013
- Quo –Discovery Annual Award 2013, Mexico
- Award to the Best Basic Research at IPN, 2013
- Annual Award 2011: To the Director of the best Ph. D. Thesis of IPN-México in 2014

Artículos publicados:

(a) Papers Published in Journals of Scientific Divulgation

1) *Physical Chemistry*, José Luis Carrillo, Edilso Reguera R., Hernani Yee-Madeira and, Conversus, May 2002, 30-33.
2) *Molecular Materials*, J. Carrillo, E. Reguera and H. Yee-Madeira, Conversus, August 2003, 38-40.
3) *Fotosíntesis Artificial: Imitando a la naturaleza?. Edilso Reguera, Eduardo Montes, Conversus, Dic. 2012, pags 12-16*
4) Tecnología de membranas con enrejados tipo zeolitas; J. Vega Moreno, E. Reguera, J. A. Díaz Gongora, A. A. Lemus-Santana; Mundo Nano 5 (2012)
5) Nanotecnología y Energías Renovables, Conversus, Julio 2014, pags 10-13

(b) Papers "in extenso" in Proceedings and LNLS (Brazil) Annual Reports

6) *Tribochemical Synthesis and Reactions of Silver Hexacyanoferrates,* José Fernández-Bertrán, José Blanco, Edilso Reguera, Carlos Díaz Aguila and Teresa Abrantes, Proc. V Ibero-American Congress on Inorganic Chemistry, Saltillo City, México, April 1995, 426-429.
7) *Syntesis and Characterization of Two Complexes of Lanthanum and Glycine,* J. Fernández-Bertrán, E. Reguera, A. Dago and C. López Hernández, Proc. V Ibero-American Congress on Inorganic Chemistry, Saltillo City, México, April 1995, 422-425.
8) Applications of the Mössbauer Spectroscopy to the Study of Iron Coordination Compounds, E. Reguera and J. Fernández, Proc. V Ibero-American Congress on Inorganic Chemistry, Saltillo city, México, April 1995, 505-08.
9) Characterization of Active Principles Derived from Natural Clinoptilolite Modified with Sodium Carbonate, Aramis Rivera, Gerardo Rodríguez, Edilso Reguera, Enelio Torres, Francisco Machado; Proc. Zeolite'97; 5th International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites; Naples, Italy, Sept 21-29, 1997; 255-257.
10) *Characterization of Iron-Exchanged Forms of a Modified Clinoptilolite: A Solid State Multinuclear NMR Study.* G. Rodríguez, L.C. de Menorval, E. Reguera, F. Chávez, Proc. Zeolites'02, 6th International Conf. Occurrence, Properties and Utilization of Natural Zeolites, Thessalonik, Greece, June, 2002, 307-310.
11) From 2D to 3D in Hoffman Clatrates Using Hydrotermal Synthesis. Lemus Santana A.A., Basterrechea Rey M.J., Reguera E., Fregoso E. and del Castillo L.F.; Proceedings Tercer Encuentro de Quimica Inorganica, 2007, Guanajuato, Mexico, pag. 114-117
11) Materials for Hydrogen Storage: Use of the Pattern Background to Obtain Structural Information in Porous Solids; Rodríguez-Hernández J., Gomez A., Reguera E., LNLS Activity Report, 2008
12) Materials for Hydrogen Storage: Low temperature Structural Transformation in Pillared 2D Solids, T[Ni(CN)$_4$].2pyz, T =Mn, Zn, Cd; Rodríguez-Hernández J., Lemus-Santana A. A., M. Ávila, Reguera E., LNLS Activity Report, 2008
13) Atypical Coordination in Transition Metal Hexacyanometallates; Rodríguez-Hernández J., M. Avila, Reguera E., LNLS Activity Report, 2008
14) Porous Transition Metal Hexacyanoferrates (II) with High Available Free Volume: Framework Stability; M. Avila, Rodriguez-Hernandez J., Reguera E., LNLS Activity Report, 2008
15) For Copper: A Unique Behaviour within Prussian Blue Analogues; Reguera E., Rodríguez-Hernández J.; LNLS Activity Report, 2008
16) Prussian Blue Analogues: Prototype of Porous Solids for H_2 Storage and of Tunable Molecular Magnets; Reguera E., Rodríguez-Hernández J., R. Martínez-García; LNLS Activity Report, 2008
17) Mixed Valence State Systems in Cobalt Iron Hexacyanides; Reguera, E., Knobel, M., and R. Martínez-García; LNLS Activity Report, 2008
18) Low Temperature Structural Transition in T[Ni(CN)$_4$]·pyz with T = Co, Ni and pyz = pyrazine; E. Reguera, Rodríguez-Hernández J., Lemus-Santana A.A., M. Ávila; LNLS Activity Report, 2009
19) Materials for Hydrogen Storage: Behaviour of Transition Metals Nitroprussides on the Crystal Water Removal and Under Cryogenic Conditions; E. Reguera, J. Rodríguez-Hernández, M. Ávila; LNLS Activity Report, 2009
20) Room and Low Temperature Structures for T[Ni(CN)$_4$]·2pyz with T = Fe, Co, Ni and pyz = pyrazine; A. Lemus-Santana, Rodríguez-Hernández J., M. Ávila, E. Reguera; LNLS Activity Report, 2009
21) Porous Solids for Hydrogen Storage: Ti(3+) Hexacyanometallates (II); M. Ávila, O. Hernández-Silva, J. Roque, E. Reguera; LNLS Activity Report, 2009
22) Nature of the High Hydrogen Capacity for Copper in Prussian Blue Analogues, E. Reguera, Rodríguez-Hernández J., Jimenez J. A., Yee-Madeira H.; LNLS Activity Report, 2009
23) Materials for Hydrogen Storage: Cation Mobility in Zeolite-like Hexacyanometalates; M. Avila, J. Rodríguez-Hernández, E. Reguera; LNLS Activity Report, 2009
24) Materials for Hydrogen Storage: Behavior of Transition Metals Nitroprussides on the Water Removal and Under Cryogenic Conditions; E. Reguera, Rodríguez-Hernández J., M. Avila; LNLS Activity Report, 2009
25) Porous Solids for Hydrogen Storage: Behavior of Some Metal-Organic Framework under Vacuum and on Cooling. R. Cabrera, M. Avila, O. Hernández, C. Vargas, J. Roque and E. Reguera¸ LNLS Activity Report, 2009
26) Temperature Induced Spin Transition in Ni[Ni(CN)$_4$].2Pyrazine; M. González Montiel, Lemus Santana A.A., Rodriguez- Hernandez J., O. Hernández, M. Avila, Knobel, and E. LNLS Activity Report, 2010
27) Porous Molecular Solids with Tunable Pore Functionality for Hydrogen Storage; L. Reguera, J. Roque, J. Hernandez, O. Hernández, E. Reguera; LNLS Activity Report, 2010

28) Structural stability of T(bipy)[Ni(CN)4].xbipy with T = Mn, Fe, Co, Ni; bipy= 4,4´.bipyridine under vacuum and cryogenic conditions. M. Avila. O. Hernández, Lemus-Santana A.A., J. Roque, E. Reguera; LNLS Activity Report, 2010

(c) Contributions (Chapters) in Scientific Books

29) *Evaluation of the Saturation Term in the Mössbauer Absorption Line Area and its Applications;* Edilso Reguera Ruíz, Carlos Diaz Aguila; Published in: Mössbauer Effect Applications, Edited by E. Baggio-Saitovitch et al.; World Scientific Publishing, Singapore, 1990, 282-285.
30) *On the State of Calcium in Nixtamalized Corn Grains*; E. Reguera, H. Yee-Madeira, J. Fernández and F. Sánchez-Sinencio; Topics in Current Physics (Edited by J.H. Heras and R.V. Jiménez, Monash Litho, Printed in Mexico, 2000), 220-238.
31) Analogos del azul de Prusia y sólidos relacionados como prototipo de materiales porosos para almacenamiento de hidrógeno, in: Hidrógeno, producción y almacenamiento: Retos hacia su uso como vector energético sustentable (2013,Spanish Edition), Published by: CreateSpace Independent Publishing Platform, Editors: J. Rodriguez Varela, R. G. González-Huerta, M. Oliver-Tolentino
32) Nanoparticles: A Promise for Host Defense Peptide Therapeutics, by *C. López-Abarrategui, A. J. Otero-González, A. Alba-Menéndez, E. Reguera, and O. Luiz Franco*, in Biological and Pharmaceutical Applications of Nanomaterials, Edited by Polina Prokopovich (CRC Press, 2015)

(d) *Publications in Periodical (Peer Reviewed) Non-JCR Journals.*

33) *Distribution of Carbon in Welded Steels,* A. Pérez Reyes, E. Reguera Ruíz, Rev. CNIC, Phys. Sci., Vol. 10 (1979) 251-263.
34) *Determination by XRD of Small Amount of ZnS (Sphalerite) in Pyritic Minerals,* Rev. CNIC, 17 (1986) 147-148.
35) *An Analytical Expression for the Mössbauer Absorption Line Area. A Simple Derivation.* E. Reguera, Rev. CNIC, 17 (1986) 141-143.
36) *Applications of Information Theory to the Evaluation of Analytical Methods. I,* E. Reguera, I. Berdan and A. Tagle, Rev. CNIC, 17 (1986) 161-163.
37) *Applications of Information Theory to the Evaluation of Analytical Methods, II,* I. Berdan, E. Reguera and A. Tagle, Rev. CNIC, 18 (1987) 131-132.
38) *XRD Quantitative Analysis of the Main Phases in Sulfide Polymetallic Minerals Using Intensity Ratio as External Standard,* A. Dago, R. Hernández, E. Reguera and J. Duque; Rev. CNIC, 18 (1987) 136-138.
39) *Micro-Structural Study of Polymetallic Sulfide Minerals from the West of Cuba. Part I, Texture and Morphology of the Pyritic Matrix*. E. Reguera and A. Pérez, Rev. Technol., 17 (1987) 22-27.
40) *Micro-Structural Study of Polymetallic Sulfide Minerals from the West of Cuba. Part II, Morphology, Distribution and Composition of Zn, Pb and Ba Bearings*. E. Reguera and A. Pérez, Rev. Technol., 17 (1987) 28-32.
41) *The Pyrrhotinizing Roasting: An Option for Recovering of Valuable Components from Complex Pyrito-Polymetallic Minerals*, J. Castillo, E. Reguera, D. N. Abishev and N. Z. Baltynova; Rev. CNIC, 19 (1988) 69-70.
42) *Los efectos de saturación en línea de absorción Mössbauer.* E. Reguera and C. Diaz; Rev. Cubana de Física, 9 (1989) 13-19.
43) *Automatic System for the Chemical Water Control,* E. Alvarez, I. Vinardell, J. R. Fagundo, J. Vega and E. Reguera; Rev. Geological Studies CSIC, Spain, 46 (1990) 409-414.
44) *Computing Program for NMR Relaxation Time Calculation.* A. Alvarez, M. Díaz, M. Velez and E. Reguera; Rev. CNIC, Chem. Sci., 22 (1991) 74-76.
45) *Mechanism of Ozone Decomposition During the Gas-Solid Interaction at Room Temperature;* E. Reguera, J. Molerio and C. Portilla, Rev. CNIC, Ciencias Químicas, 24 (1993) 24-27.
46) *Characterization of Pentacyanitrosylferrates of Mn, Cu and Fe using IE, EPR and MAMMAS.* H. Montiel-Sanchez, G. Alvarez-Lucio, R. Zamorano-Ulloa, E. Reguera, R. Valenzuela, Revista Cubana de Física, 19 (2002) 119-122
47) Carbothermic reduction products at low temperatura from a refractary chromite: An alternative for the thermodiffusive treatment of steels. Adrian Alujas Díaz, Rafael Quintana Puchol, Abel Arniella Orama, Carlos Díaz Aguila, Edilso Reguera, Revista Latinoamericana de Metalurgia y Materiales (ISSN 0255-6952) 23 (2003) 3-11

48) Synthesis and characterization of magnetic nanoparticles based on the $MnFe_2O_4$ spinel type ferrite; A. Alvarez-Paneque, S. Díaz, P. Santiago-Jacinto, E. Reguera, Rev. Cub. Fis. 25 (2B) (2008) 117-122
49) CdS nanoparticles stabilized with mercaptorpopionic acid: Hidrotermal síntesis and absorption-emision spectra. Johan R. González Moya, Viviana Figueroa Espí, Osvaldo Estévez Hernández, Edilso Reguera Ruíz, Rev. Cub. Quim. 20 (2008) 77-83
50) Hydrogen Storage in Nanocavities. E. Reguera; Rev. Cub. Fis. 26(2009) 3-14
51) Peroxidase activity of manganese ferrite, $MnFe_2O_4$, nanopartícles. V. Figueroa Espi, A. Alvavrez-Paneque, A. J. Otero-González and E. Reguera; Rev. Cub. Fis. 26 (2009) 47-50
52) Difusión de Hidrógeno en Sólidos Nanoporosos con Sitios de Adsorción Fuertemente Localizados. Carlos Rodríguez, Edilso Reguera, Rene Cabrera; Rev. Cubana de Física 28 (2011) 37-41;
53) Tecnología de membrana con enrejados tipo zeolita, J. Vega Moreno, E. Reguera, J.A. I. Díaz Góngora, A. A. Lemus Santana, Mundo Nano 5 (2012) 77-80
54) A decade of Cuban presence in synchrotron light source facilities; A. Pentón-Madrigal, E. Estevez-Rams, E. Reguera, J. Rodríguez-Hernández, B. Concepción-Rosabal, Y. García-Basabe, R. García-Fernándezc A Talavera, E Moreno, Rev. Cubana de Física 30, 36 (2013)
55) Physical characterization of an extensive volcanic rock in México: "red tezontle" from Cerro de la Cruz, in Tlahuelilpan, Hidalgo; Brenda Ponce Lira, Araceli Ortiz Polo, Elena María Otazo Sánchez, Edilso Reguera Ruiz, Otilio Arturo Acevedo Sandoval, Francisco Prieto García, César Abelardo González Ramírez, Acta Universitaria, 23 (2013) 9-16

(e) *Publications in Regular (Peer Reviewed) JRC Journals**.***

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