❖ DATOS PERSONALES

Nombre completo: Dr. Rafael Martínez Martínez

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❖ FORMACIÓN ACADÉMICA

- ***Licenciatura en Física.***
  Área de Especialidad: Materiales Luminiscentes
  Facultad de Ciencias UNAM, C.U.
  Fecha de egreso: 1 de dic/1988

- ***Maestría en Ciencias*** *(Ciencias de Materiales). IIM-UNAM, C.U.*
  Área de Especialidad: Materiales Luminiscentes
  Instituto de Investigaciones en Materiales, UNAM
  Fecha de egreso: 16 de octubre 2003

- ***Doctorado en Ciencia e Ingeniería de Materiales***
  Área de Especialidad: Materiales Luminiscentes
  Instituto de Investigaciones en Materiales, IIM-UNAM
  Fecha de egreso: 16 de nov/2007

- ***Posdoctorado en la UAM-I***
  Área de Especialidad: Espectroscopía UV-Vis
  Universidad Autónoma Metropolitana Unidad Iztapalapa.
  Fecha:1 de marzo 2008- 1 de marzo 2009.

❖ POSICIÓN ACTUAL

Profesor – Investigador de tiempo completo de la Universidad Tecnológica de la Mixteca.
Director del Instituto de Física y Matemáticas.

Materias impartidas:

- Diseño y Análisis de Experimentos
- Nanotecnología
- Estática
- Dinámica
- Seminario de Tesis I

- Cursos propedéuticos de Física a las distintas ingenierías de la UTM

❖ EXPERIENCIA LABORAL

- Facultad de Ciencias UNAM, C.U. (1993-2001)
  Profesor de asignatura nivel B en el Departamento de Física.
  Materias impartidas:
  Taller (Apoyo técnico para la elaboración de material para laboratorios de Física)
  Física General (para Biólogos) Laboratorio
  Física General (para físicos) Laboratorio
  Física Clásica I (Mecánica) Laboratorio
  Física Clásica II (Calor Ondas y Fluidos) Laboratorio
  Física Clásica III (Óptica) Laboratorio
  Biofísica I (Teoría)
  Biofísica II (Teoría)

- Colegio de Ciencias y Humanidades-UNAM, Plantel Sur.
  Profesor de la Materia Física II.

- CICATA-IPN. (1997-1999)
  Contratado para proyecto de investigación científica vinculado con la industria mexicana(Peñoles), desarrollando materiales superconductores sobre substratos metálicos en forma de películas delgadas mediante la técnica Spray Pyrolysis por generación Ultrasónica.

- Empresa: Universidad Autónoma Metropolitana Iztapalapa
  Departamento: Laboratorio de Síntesis de Materiales.
  Cargo: Investigador
  Funciones: Investigar propiedades ópticas de películas delgadas foto y catoluminiscentes. Caracterización de Nanomateriales.
  Periodo: marzo- 2008 a agosto 2009.

- Universidad Tecnológica de la Mixteca.
  Instituto de Física y Matemáticas, Laboratorio de Física
  Profesor Investigador T.C. Titular C.
  Cargo: Jefatura del Laboratorio de Física (Oct/2009- feb/2015)
  Director del Instituto de Física y Matemáticas (feb/2015-)

❖ LÍNEAS DE INVESTIGACIÓN

Síntesis y caracterización de materiales luminiscentes.

SIMPOSIA, CONGRESOS, FOROS Y CONFERENCIAS

- Seminarios de Investigación UTM.
  Título: Inducción Luminiscente en Barro Negro como Valor Agregado y Caracterización Fotoluminiscente y de Composición Química.
  Fecha: Huajuapan de León, Oax. 28 de Abril de 2011.

- Jurado calificador de la ExpoCiencia y Tecnológía en el marco del "IX Encuentro Académico, Cultural y Deportivo, COBAO 2011" en su etapa estatal. Huajuapan de León, Oax. 27 de mayo de 2011.

- Miembro Evaluador del Congreso Nacional Ciencias y Tecnologías para la vida, Foro Regional de Soberanía Alimentaria y VII Jornadas Politécnicas, Oaxaca 12 al 15 de septiembre de 2011.

- Ponencia "Películas fotoluminiscentes de Al2O3:Tb3+ sobre sustratos de barro negro preparadas por rocío pirolítico ultrasónico" en el 1er. Congreso Nacional de "Ciencias y Tecnología para la vida" Oaxaca 12 al 15 de septiembre de 2011.

- Participación (reconocimiento) en la décima octava semana nacional de Ciencia y Tecnología-COCYT-Oax., 24 al 28 de octubre de 2011.

- Conferencia "Nano-estructuras luminiscentes por el método del Polyol y Spray Pyrolysis", en el Posgrado en Dispositivos Semiconductores del Instituto de Ciencias de la BUAP, Puebla. 18 de noviembre de 2011.

- Ponente en el 13º. Foro Estatal de Investigación e Innovación, 1 y2 de diciembre de 2011.

- Conferencia en el seminario Institucional UTM "Nanoestructuras fotoluminiscentes obtenidas por el método del polyol", Oaxaca 01 marzo de 2012.

- Ponencia "Fotoluminiscencia en películas de Al2O3:Ce3+ depositadas en substratos de barro negro" en el VI Congreso Internacional de Ingeniería Física", Universidad Autónoma Metropolitana-Azcapotzalco-D.F, del 11 al 15 de junio de 2012.

- Ponencia "Artesanías de barro negro fotoluminiscente", Simposio de Divulgación de la Ciencia, en el V International Conference on Surfaces, Materials and Vacuum. Tuxtla Gutiérrez, Chiapas 24-28 septiembre 2012.

- V International Conference on Surface, Materials and Vacuum. Tuxtla Gutiérrez, Chiapas, september 24-28, 2012. Presented the following oral contribution: 319-THF "Increase of the photocatalytic of the heterostructure (TiO2/SnO2:F/substrate in the degradation of methylene blue in solution assisted by low-powered UV radiation"

- Seminarios de Investigación UTM.
  Título: "Fotoluminiscencia en películas delgadas ZrO2:Tb3+ y ZrO2:Eu3+ síntesis por Rocío Pirolítico Ultrasónico" Seminario Institucional-UTM, Huajuapan de León, Oax. 18 de Abril de 2013.

- Asesor del proyecto "Óxido Conductores Transparentes de CuCrO2:Ca2+ depositadas por Rocío Pirolítico Ultrasónico", ganador del 1er. categoría superior en la ExpoCiencias-Oaxaca 2013. Oaxaca de Juárez, Oaxaca de octubre de 2013.

- Ponencia Oral. "Fotoluminiscencia en películas delgadas ZrO2:Tb3+ y ZrO2:Eu3+" Centro Interdisciplinario de Investigación para el Desarrollo Integral Regional Unidad Oaxaca, Santa Cruz Xoxocotlán noviembre de 2013.

- Asesor "Expo-Ciencias Nacional Mazatlán 2013", 20-23 noviembre 2013.

- Ponente "Rutas de preparación por Rocío Pirolítico Ultrasónico y Polyol" en el Instituto Tecnológico de Oaxaca, organizado por el Cuerpo Académico "Ciencia de Materiales y Química ambiental" ITOAX-CA-4, 5 y 6 de diciembre de 2013.

- Divulgación de la Ciencia a través del Laboratorio de Física-UTM, con distintas pláticas y actividades experimentales dirigidas a niveles escolares (primaria, secundaria y bachillerato) de la región oaxaqueña. 3 de octubre/2013.

- Participación en la primera reunión de ingeniería en Física Aplicada, en la UTM, dia 11 de abril de 2014.

- Organizador en Coordinación con Alta Tecnología en Laboratorios para la plática "Microscopia Electrónica enfocada al Modelo SU-3500 NL, marca Hitachi, 4 de junio 2014.

- Organizador como Cuerpo Académico UTMIX-CA-20 de la "Primera Estancia Corta, Acércate a la investigación" 08 de agosto de 2014.

- Ponente con el trabajo "Fotoluminiscencia de nanopolvos de Y2O3:Sm3+ preparados por el método del polyol", en el 5º. Encuentro Nacional de Investigadores. Universidad autónoma de Benito Juárez de Oaxaca y el Consejo Oaxaqueño de Ciencia y Tecnología, a 26 de septiembre de 2014.

- Organizador Local de la IV Reunión y la RedTemática Usuarios de Luz Sincrotón RedTuls, MESYRUM, Huatulco, Oax. 27-28 de noviembre/2014.

Congresos

- A. Morales, R Hernández, R Martínez, M. García, M. Jergel, J.G. Cabañas-Moreno y C. Falcony. "Películas Superconductoras de Tl/Ag: Caracterización Electrica."
- Sociedad Mexicana de Ciencia de Superficies y de Vacío, Puerto Vallarta Jal. 1998.
- J.L. Rosas, M García, R.T. Hernández, R. Martínez, C Falcony y M Jergel. "Morfología de Películas Superconductoras"
- Sociedad Mexicana de Ciencia de Superficies y de Vacío, Puerto Vallarta Jal. 1998.
- M. Jergel, A. Morales, M. García, C Falcony, J.G. Cabañas-Moreno, J. Guzmán, R. Martínez., and V Stribik. "Tl-based films grown on silver tape substrates." Applied Superconductivity Conference: Superconductivity Coming to Market. Palm Desert California, sep. 13-18, 1998.
- Manuel García, Rafael Martínez, Arshad Mahmood. "Luminiscent and Structural Properties of Terbium Doped Zr_2O Films Prepared by Pneumatic Spray Pyrolysis Technique." 1999 Centennial Meetin. Bulletin of the America physical Society, Atlanta, Georgia, E.U.A. 1999.
- 11th INTERNATIONAL CONFERENCE ON THIN FILMS AND 19TH MEXICAN VACUUM AND SURFACE SCIENCE CONGRESS, Cancún, México. 30 August – 3 September 1999. Characterization of Luminescent Terbium doped ZrO_2 films prepared by pneumatic spray pyrolysis technique. M. García, R. Martínez, O. Alvarez-Fregoso, E. Martínez and S. López. Trabajo presentado en sesión de póster.
- 11th INTERNATIONAL CONFERENCE ON THIN FILMS AND 19TH MEXICAN VACUUM AND SURFACE SCIENCE CONGRESS, Cancún, México. 30 August – 3 September 1999. Effect of the Ag Addition on the structure and properties of Thalium based superconductor films. J.L. Rosas, R. T. Hernández, A. Morales, R. Martínez, M. Jergel, C. Falcony. Trabajo presentado en sesión de póster.
- Participación como ponente en el XII Encuentro Nacional sobre la Enseñanza de la Física en el Nivel Medio Superior con el trabajo; "La Autoevaluación y la Física". Rafael Martínez M., Manuel García H. Se llevó a cabo del 19 al 21 de agosto de 1999 en la Universidad Autónoma del Estado de México.

- Universidad Autónoma Metropolitana, Azcapotzalco. Congreso Internacional XXV años de Ingeniería Física en México. Del 4-8 de octubre de 1999. R. Martínez M, F. Ramos-Brito, M. García, R.T. Hernández y C. Falcony. "Rocío Pirolítico por generación Neumática y Ultrasónica"

- "Efecto de la Radiación Ionizante en componentes y derivados orgánicos de fosfato de zirconia" R. Martínez M, V.M. Carrillo. 1MF5. Presentado en el XLII Congreso Nacional de Física, Villahermosa, Tabasco. Noviembre 22-26, 1999.

- 15th Latinamerican Symposium on Solid State Physics – SLAFES XV. Characterization of Al_2O_3 : Eu^{3+} Luminescent Coatings prepared by Spray Pyrolysis Technique. E. Martínez, F. Ramos-Brito, M. García, O. Alvarez-Fregoso, S. López, S. Granados, J. Ch. Ramírez, R. Martínez M.and C. Falcony. Cartagena de Indias Colombia, 1 –5 de Noviembre, 1999. Sociedad Mexicana de Ciencia de superficies y Vacío A.C. 20 Congreso Nacional. 28 de agosto – 1 de septiembre, Oaxaca, México 2000. STUDIES OF PHOTOLUMINESCENCE ON MANGANESE-DOPED ZIRCONIA COATINGS. M. García, C. Falcony, J. Azorin-Nieto, O. Alvarez-Fregoso, E. Martínez y R. Martínez. PSII.7

- Congreso Latinoamericano de Ciencias y Superficies X. CLACSA X. Universidad de Costa Rica; San José, Costa Rica. 3-6 de julio, 2001. "PHOTO AND CATHODOLUMINESCENT CHARACTERISTICS OF EUROPIUM DOPED ALUMINIUM AND ZIRCONIUM OXIDE FILMS". E. Martínez-Sánchez, M. García, G. Fernández, F. Ramos, R. Martínez-Martínez, J.P. Vasquez-López, and O. Alvarez-Fregoso, C. Falcony.

- Sociedad Mexicana de Ciencia de Superficies y Vacío A. C. XXI Congreso Nacional del 1 al 5 de octubre de 2001. Mazatlán Sin. México. "Energy transference in Al_2O_3 films doped with cerium and manganese". R. Martínez-Martínez, O. Alvarez-Fregoso, E. Martínez, M. García-Hipólito and C. Falcony.

- Sociedad Mexicana de Ciencia de Superficies y Vacío A. C. XXI Congreso Nacional del 1 al 5 de octubre de 2001, Mazatlán Sin. México. "Cathodoluminiscent and Photoluminiscent Properties of Praseodimium Doped ZrO_2 Powders Prepared by Coprecipitation Technique". F. Ramos-Brito, M.García-Hipólito, R. Martínez-Martínez, J. Arrazola, E. Martínez-Sánchez and C. Falcony.

- Simposio "MATERIA 2001". Instituto de Investigaciones en Materiales, UNAM del 22 al 26 de octubre de 2001. "Prepation and characterization of Al_2O_3 films doped with cerium and manganese ions". R. Martínez-Martínez, O. Alvarez-Fregoso, E. Martínez, M. García-Hipólito and C. Falcony.

- E. Martínez-Sánchez, M. García, O. Álvarez-Fregoso, G. Fernández, F. Ramos-Brito, R. Martínez-Martínez and C. Falcony. " Photo and cathodoluminescent characteristics of europium doped aluminum and zirconium oxide films." X Latin American congress on Surface Science and Its Applications, July 3-7, 2001, San José, Costa Rica.

- F. Ramos-Brito, M. García-Hipólito, R. Martínez- Martínez, J. Arrazola, E. Martínez-Sánchez, C. Falcony. " Cathodoluminescent and photoluminescent properties of praseodimium doped ZrO_2 films prepared by spray pyrolysis technique" Simposio MATERIA 2001, octubre 22-26, 2001, México D.F.

- Martínez-Sánchez E, García-Hipólito M, Álvarez-Fregoso O, Ramos-Brito F, Martínez-Martínez R, Santoyo-Salazar J and Falcony-Guajardo C. " Cathodoluminescent characterization of $ZnAl_2O_4$: Ce3+ films prepared by spray pyrolysis technique" XXII Congreso Nacional de la Sociedad Mexicana de Ciencia de Superficies y Vacío, septiembre 30 - octubre 4, 2002, Veracruz, Ver. México.

- Ramos-Brito F, García M, Martínez-Martínez R, Martínez-Sánchez E and Falcony C. " Preparation and characterization of photoluminescent praseodimium doped ZrO_2 films " XXII Congreso Nacional de la Sociedad Mexicana de Ciencia de Superficies y Vacío, septiembre 30 - octubre 4, 2002, Veracruz, Ver. México.

- Martínez-Martínez R, García-Hipólito M, Ramos-Brito F, Martínez-Sánchez E Álvarez-Fregoso O, López-Romero S and Falcony-Guajardo C. " Cathodoluminescent properties of Al_2O_3 coartings doped with Ce and Mn ions " XXII Congreso Nacional de la Sociedad Mexicana de Ciencia de Superficies y Vacío, septiembre 30 - octubre 4, 2002, Veracruz, Ver. México.

- R. Martínez-Martínez, E. Martínez-Sánchez, M. García-Hipólito, F. Ramos-Brito, O. Álvarez-Fregoso and C. Falcony. " Study on energy transference between Ce and Mn ions in films of Al_2O_3. " 12th International Conference on Thin Films, September 15-20, 2002, Bratislava, Slovakia.

- E. Martínez-Sánchez, M. I. Ramos-Cortés, J.J. Méndez-Delgado, F. Ramos-Brito, M. García-Hipólito, O. Álvarez-Fregoso, R. Martínez-Martínez and C. Falcony. "Characterization of cathodoluminescent powders of $ZnAl_2O_4$ doped with Sm^{3+} prepared by co-precipitation process." XXIII Congreso Nacional de la Sociedad Mexicana de Ciencia de Superficies y Vacío, 29 septiembre - 2 Octubre, 2003, Huatulco-Oaxaca, México.

- F. Ramos-Brito, M. García-Hipólito, R. Martínez-Martínez, O. Álvarez-Fregoso, E. Martínez-Sánchez and C. Falcony. "Cathodoluminescent characterization of praseodimium-doped ZrO_2 films" XXIII Congreso Nacional de la Sociedad Mexicana de

Ciencia de Superficies y Vacío, 29 septiembre - 2 Octubre, 2003, Huatulco-Oaxaca, México.

- Caldiño García, Ulises; García Hipólito, Manuel; Martínez Sánchez; Ramos Brito, Francisco; Álvarez Fregoso, Octavio; Huerta Arcos, Lázaro; Guzmán Mendoza, José; Falcony Guajardo, Ciro; Martínez Martínez, Rafael. "Green and red emissions from cathodoluminescent Al_2O_3 : $CeCl_3$, $MnCl_2$ coatings deposited by spray pyrolysis process". XXIV Congreso Anual de la Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales SMCTSM A.C, 27-30 de septiembre, Riviera Maya, Quintana-Roo México 2004.

- Ramos Brito, Francisco; García Hipólito, Manuel; Martínez Martínez, Rafael; Camarillo, Enrique; Hernández, José Manuel; Falcony Guajardo, Ciro. "High resolution photoluminescent spectroscopy measurements for praseodymium doped circonia powders" XXIV Congreso Anual de la Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales SMCTSM A.C, 27-30 de septiembre, Riviera Maya, Quintana-Roo México 2004.

- Martínez Martínez, Rafael; Rickards, Jorge; García Hipólito, Manuel; Álvarez Fregoso,Octavio; Caldiño García, Ulises; Falcony Guajardo, Ciro. "Al2O3films doped with Ce, Mn and analysis RBS". XXIV Congreso Anual de la Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales SMCTSM A.C, 27-30 de septiembre, Riviera Maya, Quintana-Roo México 2004.

- R. Martínez-Martínez, L. Huerta-Arcos, M. Canseco, M. García-Hipólito, C. Falcony, O. Alvarez-fregoso. "Chemical caracterization of chlorides and Ce-Mn-Al-Cl-O complex compounds by XPS" XIII International Materials Research Congress, Cancún Quintana Roo, México, 22-26 de agosto de 2004.

- E. Martínez-Sánchez, O. Alvarez-fregoso, M. García-Hipólito, J. Santoyo-Salazar, J. Guzmán, F. Ramos-Brito, R. Martínez-Martínez, M. I. Ramos-Cortez, J.J. Méndez-Delgado, C. Falcony. " Photo and cathodoluminescent characteristics of Eu, Tb, Ce, Sm doped ZnAl2O4 nanostructured powders, obtained by the coprecipitation route" VI. Solid State Chemistry, Praga, Republica Checa, September 13-17, 2004.

- J. Rickards, R. Martínez-Martínez, M. García-Hipólito, R. Trejo-Luna, E. Martínez-Sánchez, O. Álvarez-Fregoso, F. Ramos-Brito, C. Falcony. " RBS characterization of Al2O3 films doped with Ce and Mn." 18th International Conference on the Application of Accelerators in Research and Industry", Fort Worth Texas USA, October 10-15, 2004.

- F. Ramos-Brito, M. García-Hipólito, R. Martínez-Martínez, E. Martínez-Sánchez, C. Falcony. " Cathodoluminescent properties of ZrO2: Pr nanostructured micron spheres" XVII Latin American Symposium on Solid State Physics, La Habana, Cuba, December 5-9, 2004.

- R. Martínez-Martínez, F. Ramos-Brito, M. García, O. Alvarez-Fragoso, J. Guzmán, U. Caldiño and C. Falcony " Luminescence of Ce^{3+} and Mn^{2+} doping in HfO_2 films deposited by spray pyrolysis", XXV Congreso nacional de la Sociedad Mexicana de Ciencias y Tecnología de Superficies y Materiales, Zacatecas, Zac., México, Septiembre de 2005.

- C. Falcony, R. Martínez-Martínez, M. García-Hipólito, E. Martínez-Sánchez, U. Caldiño, F. Ramos-Brito, O. Alvarez-Fregoso. "Violet-blue luminescence from Hafnum oxide layers doped with $CeCl_3$ prepared by spray pyrolysis process", 13th International congress on thin films and 8th International conference on atomically controled surfaces, interfaces and nanoestructures ICTF13/ACSIN8. Estocolmo, Suecia, Junio-2005.

- C. Falcony, R. Martínez-Martínez, M. García-Hipólito, F. Ramos-Brito, U. Caldiño, J.L. Hernández-Pozos. "Studies on blue and red photoluminescence from Al_2O_3:Ce:Mn coatings synthesized by spray pyrolysis technique", 13th International congress on thin films and 8th International conference on atomically controled surfaces, interfaces and nanoestructures ICTF13/ACSIN8. Estocolmo, Suecia, Junio-2005.

- F. Ramos Brito, R. Martínez-Martínez, M García-Hipólito, J. Guzmán, C. Falcony "An introduction to the role of Pr, Cl, and N in Cubic and Tetragonal Praseodymium Stabilized Zirconia (PrSZ) and Monoclinic Zirconia, ZrO_2". XLVIII Congreso Nacional de la Sociedad Mexicana de Física, Guadalajara, Jal. México, Oct-2005.

- F Ramos Brito, R Martínez-Martínez, M García- Hipólito, E Martínez-Sánchez, C Falcony. "The success outcome of using Ultrasonic Spray Pyrolysis Technique over the Coprecipitation Technique on the synthesis of luminescent powder of ZrO_2:Pr^{3+}". XLVIII Congreso Nacional de la Sociedad Mexicana de Física, Guadalajara, Jal. México, Oct-2005.

- Rafael Martínez Martínez, Manuel García Hipólito, Ciro Falcony Guajardo, Lázaro Huerta Arcos, Octavio Álvarez Fragoso, Miguel Angel Canceco Martínez, José Guzmán, Enrique Sánchez Martínez.

- "X Ray-Photoelectron Characterization of Ce-Mn-Cl-O Chloride Precursors in Photoluminescent Films". Congreso Nacional de la Sociedad Mexicana de Ciencia y Tecnología y Materiales XXVI, Puebla, Pue. 25-29 de septiembre 2006.

- R. Martínez-Martínez, M. García-Hipólito, E Martínez, José Guzmán, O. Álvarez-Fragoso and C. Falcony C. Congreso XVIII Latin American Sympsium on Solid State Physics (SLAFES06), November 20-24, 2006. Puebla México. "Comparison of the results photoluminescence and transfer energy between films of Al_2O_3: Ce^{+3}: Mn^{+2} and Al_2O_3: Ce^{+3}: Eu^{3+}".

- XVI International Materials Research Congress Cancún, August 2007. "Optical and Luminiscent properties of Mn-doped Hafnium oxide thin films. Enrique Barrera C, M. Ortega, J.C. Martínez, Martínez R and Manuel García H.

- R. Martínez-Martínez, M. García-Hipólito, E Martínez, O. Álvarez-Fragoso, U. Caldiño, G. Muñoz H, I. Camarillo and C. Falcony C. Latin American of Surface Science and its Applications (CLACSA XIII), December 3-7, 2007. Santa Martha, Colombia. "Energy transfer in polycrystalline Al_2O_3 pellets doped with Ce^{3+} and Mn^{2+} ions".

- 28th Annual Meeting International Conference on Materials, Surfaces and Vacuum, Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales. Del 29 de Septiembre al 3 de Octubre Veracruz, Veracruz México 2008.

- "Intrinsic white light luminescence from HfO_2 layer under UV excitation prepared by spray pyrolysis" R Martínez- Martínez, U Caldiño, M García, A Speghini and C. Falcony.

- 28th Annual Meeting International Conference on Materials, Surfaces and Vacuum. Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales Del 29 de Septiembre al 3 de Octubre Veracruz, Veracruz México 2008. "Energy transfer (white light generation) in Al_2O_3:Ce^{3+}: Tb^{3+}: Mn^{2+} films deposited by spray pyrolysis". R Martínez- Martínez, U Caldiño, M García, A Speghini and C. Falcony.

- LII Congreso Nacional de Física, Hotel Acapulco Princess, Acapulco Guerrero del 26 al 30 de octubre de 2009. "Spectroscpic characterization of Er^{3+} doped $Bi_4Si_3O_{12}$ glass for optical amplification and laser application". A. Lira, R. Martínez, I. Camarillo, G. Muñoz and U. Caldiño.

- International Conference on Surfaces Materials and Vacuum. Playa Paraíso, Riviera Maya, Q. Roo. México. September 27th-October 1st 2010. "Photoluminescence $(Hf-Zr)O_2$ films doped Mn^{2+} synthesized Spray Pyrolysis Technique" . R. Martínez-Martínez, U. Caldiño, M. Picquart, J.L. Hernández Pozos, E. Haro Poniatowski and C. Falcony

- International Conference on Surfaces Materials and Vacuum. Playa Paraíso, Riviera Maya, Q. Roo. México. September 27th-October 1st 2010. "Cathodoluminescent

properties of nanosized powders of Yttrium oxide doped with Dysprosium prepared by the Polyol Method". R. Balderas-Xicohténcatl, R. Martínez-Martinez, L.Pérez-Arrieta, J. Guzman, A. Meza, C. Falcony.

- LIII Congreso Nacional de Física. Boca del Río Veracruz, del 25 al 29 de octubre 2010. "Emisión de luz blanca de películas de HfO_2: Ce^{3+}:Dy^{3+} procesadas por la técnica de spray-pirólisis". Rafael Martínez-Martínez, Alicia Lira Campos, Adolfo Speghini, Ciro Falcony, Ulises Caldiño.

- Encuentro Internacional e Interdisciplinario en Nanociencias y Nanotecnología. Universidad Nacional Autónoma de México, nanoUNAM, 18 y 19 de noviembre de 2010. "Transferencia de energía desde iones de Dy^{3+} hacia iones de Ce^{3+} en películas de HfO_2 para mejorar emisión de luz blanca". Lira C. R. Martínez-Martínez, A. Speghini, C. Falcony, U. Caldiño.

- XX Congreso Internacional en Metalurgia Extractiva "Avances Recientes en Metalurgia, Materiales y Medio Ambiente". Hermosillo, Sonora, México, 18 al 20 de Mayo de 2011. Evaluación del ph sobre la velocidad global de precipitación de oro en el sistema $Au^{+} - S_2O_3^{2-} - S_2O_4^{2-} - O_2$. G. Juárez L, I. Rivera L, F. Patiño C, E. Salinas R, J. Hernández A, M. Pérez L, J. Silva L y R. Martínez M.

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- V International Conference on Surface, Materials and Vacuum. Tuxtla Gutiérrez, Chiapas, september 24-28, 2012. Presented the following poster contribution: "Films of ZnO, SnO_2:F deposited by SPUs, with possible application in photovoltaic structure". G. Flores-Carrasco, J. Carrillo-López, J.A. Luna-López, R. Martínez-Martínez, S. Alcántara Iniesta.

- V International Conference on Surface, Materials and Vacuum. Tuxtla Gutiérrez, Chiapas, september 24-28, 2012. Presented the following poster contribution: "Fundamental Aspects of in the SPUs technique with horizontal reactor" G. Flores-Carrasco, J. Carrillo-López, J.A. Luna-López, R. Martínez-Martínez, S. Alcántara Iniesta.

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- FEMS EUROMAT 2013, European Congress and Exhibition on Advanced Materials and Processes held in Sevilla, September 8-13 2013. "Growth of ZnO structures with different morphology by hexamethylenetetramine-hydrothermal Method. Maria Eugenia Rabanal, Olivera Milosevic, Luz Gomez-Villalba, Gregorio Flores, F. Flores-Gracias, R. Martínez-Martínez.

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- LVII Congreso Nacional de Física, celebrado en Mazatlán, Sinaloa del 5 al 10 de octubre de 2014, con el trabajo "Diseño de un dispositivo para generar flujo laminar en el sistema RPU", autores: Jorge Carmen Flores Juan, Rafael Martínez Martínez, Guillermo Juárez López, Evaristo Isac Velázquez Cruz, María Guadalupe Archundia Gutiérrez y Ciro Falcony Guajardo.

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❖ DISTINCIONES ACADÉMICAS

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  Fecha de otorgamiento: 1 de enero, vigencia hasta 31 de diciembre de 2011
- Sistema nacional de investigadores nivel 1(**SNI 1**), **CONACYT**.
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❖ PUBLICACIONES

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	Journal of Luminescence Volume 154, October 2014, Pages 334-33 **C15.** Title: Preparation and white light emission regulation of Ce/Tb/Mn co-doped ZnO-SrO-P2O5 glass-ceramics Authors of Document Wang, J.-X., Chen, G.-H.,Li, X.-Q., He, Z.-Y., Yuan, C.-L., Yang, H.-J.,Yang, Y. Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals Volume 24, Issue 6, June 2014, Pages 1538-1543 **C16.** Title: Photoluminescence properties of Eu^{3+} in garnet-type $Li_7La_3Zr_2O_{12}$ polycrystalline ceramics Author(s): Zhang, X., Zhang, Z., Kim, S.I., Moon Yu, Y., Seo, H.J. Source: Ceramics International 40 (1 PART B) , pp. 2173-2178 Published: 2014 **C17.** Title: Highly Thermally Stable Single-Component White-Emitting Silicate Glass for Organic-Resin-Free White-Light-Emitting Diodes By: Zhang, Xuejie; Huang, Lin; Pan, Fengjuan; Wu, Mingmei; Wang, Jing; Chen, Yan; Su, Qiang ACS APPLIED MATERIALS & INTERFACES Volume: 6 Issue: 4 Pages: 2708-2716 Published: FEB 26 2014 **C18.** Title: "The properties and structure of zinc magnesium phosphate glasses". By: Smith, Charmayne E.; Brow, Richard K. JOURNAL OF NON-CRYSTALLINE SOLIDS Volume: 390 Pages:51-58 Published: APR 15 2014 **C19.** Title: "Tunable Mission and Trichromatic White-Emitting in Oxyfluoride Glasses by Utilization of Cu+ Ions as Multiple Energy-Transfer Creators". By: Lv, Tianshuai; Xu, Xuhui; Yu, Xue; Yu, Hongling; Zhou, Dacheng; Qiu, Jianbei JOURNAL OF THE AMERICAN CERAMIC SOCIETY Volume: 97 Issue: 9 Pages: 2897-2902 Published: SEP 2014 DOI: 10.1111/jace.13074 **C20.** Title: Synthesis and luminescent properties of Tb/Eu co-doped zinc borophosphate glasses for white light generation By: Gu, L.-S., Shi, N., Zhang, L., Wang, L.-X., Zhang, Q.-T. Source of the Document Faguang Xuebao/Chinese Journal of Luminescence 35 (8), pp. 897-904 Published: 2014 **C21.** Title: Photoluminescence properties of Tb^{3+}-doped

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	Author(s): Ju, Guifang; Hu, Yihua; Chen, Li; Wang, Xiaojuan; Mu, Zhongfei; Wu, Haoyi; Kang, Fengwen Source: JOURNAL OF THE ELECTROCHEMICAL SOCIETY Volume: 158 Issue: 10 Pages: J294-J299 DOI: 10.1149/1.3615934 Published: 2011 **C2.** Title: Synthesis and characterization of white light emitting CaxSr1-xAl2O4:Tb3+,Eu3+ phosphor for solid state lighting Author(s): Shaat, Samy K. K.; Swart, Hendrik C.; Ntwaeaborwa, Odireleng M. Source: OPTICAL MATERIALS EXPRESS Volume: 2 Issue: 7 Pages: 962-968 Published: JUL 1 2012 **C3.** Title: Luminescence properties of Y2O3:Bi3+, Ln(3+) (Ln=Sm, Eu, Dy, Er, Ho) and the sensitization of Ln(3+) by Bi3+ Author(s): Ju, Guifang; Hu, Yihua; Chen, Li; Wang, Xiaojuan; Mu, Zhongfei; Wu, Haoyi; Kang, Fengwen Source: JOURNAL OF LUMINESCENCE Volume: 132 Issue: 8 Pages: 1853-1859 DOI: 10.1016/j.jlumin.2012.03.020 Published: AUG 2012 **C4.** Title: Progress in Ultrasonic Spray Pyrolysis for Condensed Matter Sciences Developed From Ultrasonic Nebulization Theories Since Michael Faraday Author(s): Mwakikunga, Bonex W. Source: CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES Volume: 39 Issue: 1 Pages: 46-80 DOI: 10.1080/10408436.2012.687359 Published: JAN 1 2014 **C5.** Title: High-efficiency fluorescence radiation of Dy3+ in alkaline earth borate glasses By: Xiong, H. H.; Shen, L. F.; Pun, E. Y. B.; Lin, H. JOURNAL OF LUMINESCENCE Volume: 153 Pages: 227-232 Published: SEP 2014 **C6.** Title: Morphology control, luminescence and energy transfer properties of NaCeF4 and NaCeF4:Tb3+/Yb3+ nanocrystals By: Lian, Hongzhou; Dai, Yunlu; Yang, Dongmei; Cheng, Ziyong; Li, Chunxia; Hou, Zhiyao; Shang, Mengmeng; Lin, Jun NANOSCALE Volume: 6 Issue: 16 Pages: 9703-9712 Published: AUG 21 2014

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Citas tipo **B=1**	**C1.** Title: "Polyethylene terephthalate thin films; a luminescence study". S. Carmona-Téllez, G. Alarcón-Flores, A. Meza-Rocha, E. Zaleta-Alejandre, M. Aguilar-Futis, H. Murrieta S, C. Falcony. Journal of Optical Materials, Available online 7 January 2015, ISSN 0925-3467. DOI:10.1016/j.optmat.2014.12.026
27. "Synthesis, characterization and photocatalytic properties of nanostructured ZnO particles obtained by low temperature air-assisted-USP". Advanced Powder Technology 25 (2014) 1435–1441, ISSN: 0921-8831. G. Flores, J. Carrillo, J.A. Luna, **R. Martínez**, A. Sierra-Fernandez, O. Milosevic, M.E. Rabanal.	
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28. “Structural and Morphological Properties of Nanostructured ZnO Particles Grown by Ultrasonic Spray Pyrolysis Method with Horizontal Furnace”, Advances in Materials Science and Engineering Volume 2014, Article ID 780206, 6 pages Available online 3 March 2014ISSN: 1687-8434, ISSN: 1687-8442 (Online) UNITED STATES. G. Flores-Carrasco, J. Carrillo-López, J. A. Luna-López, **R. Martínez-Martínez**, N. D. Espinosa-Torres and M. E. Rabanal

Citas tipo **A=0**	
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29. “Synthesis and fabrication of Y2O3:Tb3+ and Y2O3:Eu3+ thin films for electroluminescent applications: Optical and structural characteristics” Materials Chemistry and Physics. Volumes 149–150, 15 January 2015, Pages 34–42 G. Alarcón-Flores, M. García-Hipólito, M. Aguilar-Frutis, S. Carmona-Téllez, **R. Martinez-Martinez**, M.P. Campos-Arias, E. Zaleta-Alejandre, C. Falcony.

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30. “Luminescent polystyrene films, a novel way to reduce styrofoam residues” Revista Mexicana de Física 61 (2015) 323–329 SEPTEMBER-OCTOBER 2015 M. Aguilar-Frutis and C. Falcony S. Carmona-Téllez, G. Alarcón-Flores, E. Zaleta-Alejandre, Z. Rivera-Alvarez, A. N. Meza-Rocha, **R. Martínez-Martínez**, H. Murrieta S.

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31. “The effect of Bi3+ and Li+ co-doping on the luminescence characteristics of Eu3+-doped aluminum oxide films” Journal of Luminescence 165 (2015) 185–189

I Padilla-Rosales, **R Martinez-Martinez**, G Cabañas, C Falcony	
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Artículos publicados en revistas nacionales con arbitraje

1. Titulo: “Superconducting Tl-Ba-Ca-Cu-O films deposited on Ag substrates”
Revista: Superficies y Vacío, vol. 9 (1999) p. 156-158. **ISSN 1665-3521**

Autores: M. Jergel, A. Morales, J. L. Rosas, M. García, C. Falcony, **R. Martínez**, R.T. Hernández, A. De Ita
Fecha: diciembre 1999
2. Titulo: “Two-zone furnace used to grow Tl-Ba-Ca-Cu-O films”
Revista: Superficies y Vacío, vol. 9 (1999) p. 154-155. **ISSN 1665-3521**

Autores: A. Morales, J. L. Rosas, M. Jergel, C. Falcony, **R. Martínez**, M. García, R.T. Hernández,
Fecha: diciembre 1999. **ISSN 1665-3521**
3. Titulo: “Educación Científica”.
Revista: PADHIA Desarrollo p.18, abril 98, núm.47. http://www.padhia.com.mx/

Autores: **Rafael Martínez M**

Fecha: abril 1998

Artículos publicados en memorias en extenso nacionales con arbitraje estricto

4. Titulo: "Rocío Pirolítico por generación Neumática y Ultrasónica"

Revista: Memoria de Congreso Internacional XXV años de Ingeniería Física en México.

ISBN: 9706547576, 9789706547576

Autores: **R. Martínez M**, F. Ramos-Brito, M. García, R.T. Hernández y C. Falcony.

Fecha: 4-8 de octubre 1999

5. Título: “Fotoluminiscencia en películas de Al_2O_3:Tb^{3+} depositadas en substratos de barro negro”.

Revista: 13º. Foro Estatal de Investigación Científica y Tecnológica. **Consejo Oaxaqueño de Ciencia y Tecnología** 2011, **ISBN 978-607-7849-19-3**

Autores: G. Juárez L, **R. Martínez-Martínez**, A. Aguirre, E. Yescas-Mendoza, U. Caldiño, C. Falcony

6. Título: Generación de luz blanca a partir de Al_2O_3 y HfO_2 activados por iones de Ce^{3+}, Tb^{3+} y Mn^{2+}en películas delgadas.

Revista: Naturaleza y Desarrollo. *Vol.9 Núm.2, Julio-Diciembre, 2012* **ISSN 1665-8531**

R. Martínez-Martínez, D.C. Altamirano-Juárez, E. Yescas-Mendoza, C. Falcony y U. Caldiño.

7. Título: Inducción luminiscente, caracterización fotoluminiscente y estructural en barro negro como valor agregado.

Autores: **R. Martínez-Martínez**, G. Juárez L, E. Yezcas Mendoza, I. Vásquez Báez, U. Caldillo C. Falcony.

Revista: Temas de Ciencia y Tecnología Vol. 15 número 48 septiembre diciembre 2012 pp 3-8 **ISSN 2007-0977**

8. Título: Síntesis y caracterización de películas ZrO2 :Sm^{3+} preparadas por la técnica de rocío pirolítico ultrasónico.

Autores: **Rafael Martínez Martínez**, Efraín Zaleta Alejandre, Guillermo Juárez López, Evaristo I. Velázquez Cruz, Emori Alain Sérvulo Carballo, Yadira Gochi Ponce, Ciro Falcony Guajardo**.** Revista: Temas de Ciencia y Tecnología vol. 19 número 56 Mayo - Agosto 2015 pp 3 -8**. ISSN 2007-0977**

9. Título: Cálculo de parámetros teóricos y tamaño de partícula para un flujo laminar en un horno de tres secciones.

Autores: Jorge Carmen Flores Juan, Evaristo Isac Velázquez Cruz, Guillermo Juárez López, Julián Javier Carmona Rodríguez, **Rafael Martínez Martínez.** Revista: Temas de Ciencia y Tecnología vol. 19 número 57 septiembre - diciembre 2015 pp 23 - 26**. ISSN 2007-0977**

Capítulos de libros

1. Autor(es): G. Juárez L., I. Rivera L., F. Patiño C., E. Salinas R., J. Hernández A., M. Pérez, L., E. Yescas M., R. Martínez M.

Título del Libro: DESARROLLOS RECIENTES EN METALURGÍA, MATERIALES Y MEDIO AMBIENTE

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País*: MÉXICO
Editorial: Cinvestav-IPN Unidad Saltillo
Editores: Martín I. Pech-Canul, Ana L. Leal-Cruz, Juan C. Rendon-Ángeles, Carlos A. Gutiérrez-Chavarría, Jorge López-Cuevas, José L. Rodriguez-Galicia.
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Propósito: Generación de conocimiento
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de Oro Contenido en Soluciones Base Tiosulfato"

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Miembros 2
LGACs: 1

2.
Tipo: Capítulo de libro
Autor(es): G. Juárez L., I. Rivera L., F. Patiño C., E. Salinas R., J. Hernández A., M. Pérez L., E. Yescas M., R. Martínez M.
Título del Libro: RECENT DEVELOPMENTS IN METALUURGY, MATERIALS AND ENVIRONMENT

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ISBN:978-607-9023-18-8

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Nombre del Capítulo del Libro: Temperature Dependence and Thermodynamic study of Gold Content in Solutions Based Thiosulfate

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A la página: 44
Citas: 0
Para CA: SI
Miembros: 2
LGACs: 1

3.
Tipo: Capítulo de Libro
Autor(es): G. Juárez-López, R. Martínez-Martínez, E. Yescas-Mendoza, I. R. Vásquez-Báez, U. Caldiño, C. Falcony
Título del Libro: Proceedings of the 2° Latin American and Caribean Conference on Theoretical and Applied Mechanics

Estado actual: PUBLICADO
País: Venezuela
Editorial: LACCOTAM2012
Professors Geanette Polanco and Julio Segura
Edición: 1
ISBN: 978-980-7541-00-8
Ifi: 7832012620400
Año: 2012
Propósito: Generación de conocimiento
Nombre del Capítulo del Libro: Photoluminescence Films Deposited by Spray Pyrolysis Ultrasonic Technique of Al2O3:Ce, Tb, and Ce-Mn on Substrates Black Clay.

De la página: 1
A la página: 6
Citas: 0
Para CA: SI
Miembros: 2
LGACs: 1

Reportes técnicos

- Reporte técnico de la reconfiguración del horno eléctrico Marca: SASABE, Modelo GC-12/29, No. de inventario UTM 15343/006.
  29 de agosto de 2014.
  Participantes: M.E.C. Edgardo Yescas Mendoza, Ing. Marcelino Flores Alonso, Tec. Gilberto Acevedo López, Tec. Alma Rosa Velasco Rosales, Dr. Guillermo Juárez, Dr. Rafael Martínez.

- Visita a la planta Hidroeléctrica de Tamazulapan.
  16 de marzo de 2012.
  L.F.M. Gustavo Jiménez Santana, Dr. Rafael Martínez.

❖ PROYECTOS DE INVESTIGACIÓN

- Título: Superconductores sobre substratos metálicos en forma de películas delgadas mediante la técnica Spray Pyrolysis por generación Ultrasónica.
  Institución: CICATA, IPN
  Departamento: Física de estado sólido
  Financiamiento: "Peñoles"
  Tipo de participación: Técnica
  Periodo: 1997-1999

- 2. Título: Síntesis de Cerámicos Luminiscentes Nanoestructurados.
  Número de proyecto: OFICIO PROMEP 103.5/10/4984 UTMIX-PTC-021
  Responsable Dr. Rafael Martínez Martínez.
  Fecha de inicio: 6 de agosto de 2010 Fecha de conclusión: 30 de noviembre de 2011
  Fondo y monto financiado: $ 275, 000.00 SEP-PROMEP

- Título del proyecto: Inducción Luminiscente en Barro Negro como Valor Agregado Caracterización Fotoluminiscente y de Composición Química.
  Número de proyecto : OFICIO PROMEP IDCA 4834 UTMIX-CA-20
  Responsable: Dr. Rafael Martínez Martínez
  Fondo y monto financiado: $ 300, 000.00 SEP-PROMEP
  Fecha de inicio: 9 de marzo de 2011 Fecha de conclusión : junio de 2012
  OBTENCIÓN DE UNA PATENTE
  Título: "PROCESO PARA DEPOSITAR RECUBRIMIENTOS FOTOLUMINISCENTES SOBRE SUBSTRATOS DE BARRO NEGRO"
  Publicado en la GACETA DE LA PROPIEDAD INDUSTRIAL-IMPI
  Número de solicitud: MX/a/2013/010857, Fecha de presentación: 23/09/2013

Inventor(es): RAFAEL MARTÍNEZ MARTÍNEZ [MX]; GUILLERMO JUÁREZ LÓPEZ [MX]; ULISES SINHUÉ ALEJANDRO CALDIÑO GARCÍA [MX]; CIRO FALCONY GUAJUARDO [MX].

H. PATENTES

- Título: *"PROCESO PARA DEPOSITAR RECUBRIMIENTOS FOTOLUMINISCENTES SOBRE SUBSTRATOS DE BARRO NEGRO"*
  Publicado en la GACETA DE LA PROPIEDAD INDUSTRIAL-IMPI
  Número de solicitud: **MX/a/2013/010857**, Fecha de presentación: 23/09/2013
  Inventor(es): **RAFAEL MARTÍNEZ MARTÍNEZ** [MX]; GUILLERMO JUÁREZ ÓPEZ [MX]; ULISES SINHUÉ ALEJANDRO CALDIÑO GARCÍA [MX]; CIRO FALCONY GUAJUARDO [MX];