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Física de Radiaciones
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Titulaciones

Doctorado, Centro de Investigación Científica y de Educación Superior de Ensenada
1993 → 1996
Fecha de concesión: 4 jul 1996
Maestría, Universidad de Sonora
1991 → 1993
Fecha de concesión: 13 jul 1993
Licenciatura, Universidad de Sonora
1987 → 1991
Fecha de concesión: 31 ene 1992

Intereses de la investigación

Estudio de las propiedades luminiscentes de materiales nano y microfósforos de alta eficiencia de recombinación (superluminiscentes)
Estudio de los efectos de la radiación en alimentos con fines de esterilización y preservación
Estudio de materiales biocompatibles para dosimetría clínica (in situ y tiempo real)
Física médica.

Empleo

Departamento de Investigación en Física

México
1 ene 1942 → present

Física de Radiaciones

México
1 ene 1942 → present

Resultado de la investigación

Thermoluminescence radiation dosimetry in Sonoran zeolite exposed to beta particle irradiation

BurrueI-Ibarra, S. E., Salas-Juarez, C. J., Gil-Tolano, M. I., Ramos-Velazquez, J. P., Soria-Hernandez, J. I., Garcia-Haro, A. R., Alvarado-Ibarra, J., Brown-Bojorquez, F., Moreno-Corral, R. & Melendrez, R., feb 2023, En: Radiation Physics and Chemistry. 203, 110631.

Effect of reducing and oxidizing atmosphere on photoluminescence of undoped and Eu doped nanostructured CaAl_2O_4
Chernov, V., Piters, T. M., Ruiz-Torres, R., Salas-Castillo, P., Zúñiga-Rivera, N. J., Meléndrez, R. & Barboza-Flores, M., nov 2022, En: Journal of Luminescence. 251, 119196.

Optical properties and functional groups characterization of commercial HPHT micro-diamond samples

Calderón-Martínez, M. C., Gil-Tolano, M. I., Navarro-Espinoza, S., Meléndrez, R., Chernov, V. & Barboza-Flores, M., sep 2022, En: Optical Materials. 131, 112592.

Physicochemical characterization and biodegradation test of oxo-degradable linear low-density polyethylene films subjected to gamma irradiation and accelerated weathering

Val-Félix, L. A., Madera-Santana, T. J., Pillai, S. D., Soto-Valdez, H., Rodríguez Félix, D. E., Quintana-Owen, P., Peralta, E., Meléndrez-Amavizca, R. & Martínez-Colunga, G., 1 ago 2022, En: *Materials Chemistry and Physics*. 287, 126282.

Thermal Annealing Effect on the Thermoluminescence Properties of Commercial High-Pressure High-Temperature Diamond Powders

Calderón-Martínez, M. C., Gil-Tolano, M. I., Cruz-Zaragoza, E., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 2022, (Aceptada/en prensa) En: *Physica Status Solidi (A) Applications and Materials Science*.

Thermoluminescence properties of high-dose gamma-irradiated diamond films

Cruz-Zaragoza, E., Marcazzó, J., Pérez Ramírez, E., Meléndrez, R. & Barboza-Flores, M., 18 mar 2021, En: *Journal of Physics: Conference Series*. 1723, 1, 012052.

Alterations on HeLa cell actin filaments induced by PEGylated gold nanorod-based plasmonic photothermal therapy

Santacruz-Gomez, K., Meléndrez, R., Licerio-Ramírez, M., Gallego-Hernandez, A. L., Pedroza-Montero, M. & Lal, R., feb 2021, En: *Journal of Nanoparticle Research*. 24, 2, 38.

Thermoluminescence response of detonation diamond microparticles exposed to beta and alpha radiation

Gil-Tolano, M. I., Calderón-Martínez, M. C., Román-López, J., Cruz-Zaragoza, E., Meléndrez, R., Chernov, V. & Barboza-Flores, M., jun 2020, En: *Diamond and Related Materials*. 106, 107823.

Effect of thermal treatment on luminescence properties of long persistent $\text{CaAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$ synthesized by combustion method

Ruiz-Torres, R., Chernov, V., Salas-Castillo, P., Zúñiga-Rivera, N. J., Díaz-Torres, L. A., Meléndrez, R. & Barboza-Flores, M., mar 2020, En: *Optical Materials*. 101, 109763.

Characterization of epoxy-nanoparticle composites exposed to gamma & UV radiation for aerospace applications

Torres, M., Franco-Urquiza, E. A., González-García, P., Bárcena-Balderas, J., Piedra, S., Madera, T., Meléndrez, R. & Quintana, P., 1 ene 2020.

Thermoluminescence and infrared stimulated luminescence in long persistent monoclinic $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$ and $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Nd}^{3+}$ phosphors

Chernov, V., Salas-Castillo, P., Díaz-Torres, L. A., Zúñiga-Rivera, N. J., Ruiz-Torres, R., Meléndrez, R. & Barboza-Flores, M., 13 abr 2019, En: *Optical Materials*. 92, p. 46-52 7 p.

Production of Biocomposites Using Different Pre-treated Cut Jute Fibre and Poly(lactic Acid) Matrix and Their Properties

Burrola-Núñez, H., Herrera-Franco, P., Soto-Valdez, H., Rodríguez-Félix, D. E., Meléndrez-Amavizca, R. & Madera-Santana, T. J., 1 ene 2019, (Aceptada/en prensa) En: *Journal of Natural Fibers*. 18, 11, p. 1604-1617 14 p.

Production of Biocomposites Using Different Pre-treated Cut Jute Fibre and Poly(lactic Acid) Matrix and Their Properties

Burrola-Núñez, H., Herrera-Franco, P., Soto-Valdez, H., Rodríguez-Félix, D. E., Meléndrez-Amavizca, R. & Madera-Santana, T. J., 1 ene 2019, En: *Journal of Natural Fibers*.

Synthesis and thermoluminescence of erbium-activated lithium niobate

Muñoz, I. C., Landavazo, M. A., Brown, F., Cruz-Zaragoza, E., Alvarez-Montaña, V. E., Meléndrez-Amavizca, R., Gil-Tolano, I. & Tánori-Córdova, J., dic 2018, En: *Applied Radiation and Isotopes*. 142, p. 64-70 7 p.

Raman and Thermoluminescence Studies of HPHT Synthetic Nanodiamond Powders

Ruiz-Valdez, C. F., Chernov, V., Meléndrez, R., Álvarez-García, S., Santacruz-Gómez, K., Berman-Mendoza, D. & Barboza-Flores, M., 21 nov 2018, En: *Physica Status Solidi (A) Applications and Materials Science*.

X-Ray Thermoluminescence Dosimetry Characterization of Commercially Available CVD Diamond

Gil-Tolano, M. I., Meléndrez, R., Álvarez-García, S., Soto-Puebla, D., Chernov, V. & Barboza-Flores, M., 21 nov 2018, En: *Physica Status Solidi (A) Applications and Materials Science*. 215, 22, 1800246.

Afterglow, thermoluminescence and optically stimulated luminescence characterization of micro-, nano- and ultrananocrystalline diamond films grown on silicon by HFCVD

Montes-Gutierrez, J. A., Alcantar-Pena, J. J., de Obaldía, E., Zuniga-Rivera, N. J., Chernov, V., Melendrez-Amavizca, R., Barboza-Flores, M., Garcia-Gutierrez, R. & Auciello, O., may 2018, En: Diamond and Related Materials. 85, p. 117-124 8 p.

A nanodiamond-fluorescein conjugate for cell studies

Pedroso-Santana, S., Fleitas-Salazar, N., Sarabia-Sainz, A., Silva-Campa, E., Burgara-Estrella, A., Angulo-Molina, A., Melendrez, R., Pedroza-Montero, M. & Riera, R., 1 mar 2018, En: Advances in Natural Sciences: Nanoscience and Nanotechnology.

Antioxidant activity of hydrated carboxylated nanodiamonds and its influence on water γ -radiolysis

Santacruz-Gomez, K., Sarabia-Sainz, A., Acosta-Elias, M., Sarabia-Sainz, M., Janetanakit, W., Khosla, N., Melendrez, R., Montero, M. P. & Lal, R., 12 feb 2018, En: Nanotechnology.

Micro-structures of nanodiamonds grown on silicon by hot filament chemical vapor deposition

Montes-Gutierrez, J. A., Garcia-Gutierrez, R., Barboza-Flores, M., Meléndrez, R., Cabanillas, R. E., Contreras, O. E., Hirata, G. A. & Rangel-Segura, R., 20 dic 2017, En: International Journal of Chemical Reactor Engineering.

Nano alterations of membrane structure on both γ -irradiated and stored human erythrocytes

Alessandra Acosta-Elias, M., Jesus Burgara-Estrella, A., Andre-i Sarabia-Sainz, J., Silva-Campa, E., Angulo-Molina, A., Josefina Santacruz-Gomez, K., Castaneda, B., Soto-Puebla, D., Irene Ledesma-Osuna, A., Melendrez-Amavizca, R. & Pedroza-Montero, M., 2 dic 2017, En: International Journal of Radiation Biology. 93, 12, p. 1306-1311 6 p.

Study of a Polydimethylsiloxane (PDMS) Elastomer Generated by γ Irradiation: Correlation Between Properties (Thermal and Mechanical) and Structure (Crosslink Density Value)

Meléndez-Zamudio, M., Villegas, A., González-Calderón, J. A., Meléndrez, R., Meléndez-Lira, M. & Cervantes, J., 1 may 2017, En: Journal of Inorganic and Organometallic Polymers and Materials. p. 622-632 11 p.

Thermally and optically stimulated luminescence in long persistent orthorhombic strontium aluminates doped with Eu, Dy and Eu, Nd

Zúñiga-Rivera, N. J., Salas-Castillo, P., Chernov, V., Díaz-Torres, L. A., Meléndrez, R., García-Gutierrez, R., Carrillo-Torres, R. C. & Barboza-Flores, M., 1 may 2017, En: Optical Materials. p. 91-97 7 p.

Properties of the HPHT diamond when used as a soft X-Ray detector

Melendrez-Amavizca, R., Diaz-Lagos, M. & Martinez-Ovalle, S. A., abr 2017, En: Revista de la Academia Colombiana de Ciencias Exactas, Fisicas y Naturales. 41, 159, p. 168-173 6 p.

Thermally stimulated luminescence and persistent luminescence of β -irradiated YAG:Pr³⁺ nanophosphors produced by combustion synthesis

Santacruz-Gomez, K., Meléndrez, R., Gil-Tolano, M. I., Jimenez, J. A., Makale, M. T., Barboza-Flores, M., Castaneda, B., Soto-Puebla, D., Pedroza-Montero, M., McKittrick, J. & Hirata, G. A., 1 nov 2016, En: Radiation Measurements. p. 35-40 6 p.

Effect of gamma irradiation on physicochemical properties of commercial poly(lactic acid) clamshell for food packaging

Madera-Santana, T. J., Meléndrez, R., González-García, G., Quintana-Owen, P. & Pillai, S. D., 1 jun 2016, En: Radiation Physics and Chemistry. p. 6-13 8 p.

Carboxylated nanodiamonds inhibit γ -irradiation damage of human red blood cells

Santacruz-Gomez, K., Silva-Campa, E., Melendrez-Amavizca, R., Teran Arce, F., Mata-Haro, V., Landon, P. B., Zhang, C., Pedroza-Montero, M. & Lal, R., 7 abr 2016, En: Nanoscale. 8, 13, p. 7189-7196 8 p.

Thermoluminescence studies on HPHT diamond crystals exposed to β -irradiation

Gil-Tolano, M. I., Meléndrez, R., Castañeda, B., Alvarez-García, S., Pedroza-Montero, M., Soto-Puebla, D., Chernov, V. & Barboza-Flores, M., 1 ene 2016, En: Physica Status Solidi (A) Applications and Materials Science. p. 2507-2511 5 p.

Carboxylated nanodiamond and re-oxygenation process of gamma irradiated red blood cells

Acosta-Eliás, M., Sarabia-Sainz, A., Pedroso-Santana, S., Silva-Campa, E., Santacruz-Gomez, K., Angulo-Molina, A., Castaneda, B., Soto-Puebla, D., Barboza-Flores, M., Melendrez, R., Álvarez-García, S. & Pedroza-Montero, M., 1 ene 2015, En: *Physica Status Solidi (A) Applications and Materials Science*. p. 2437-2444 8 p.

Persistent luminescence, TL and OSL characterization of beta irradiated

SrAl₂O₄:Eu²⁺, Dy³⁺ combustion synthesized phosphor

Zúñiga-Rivera, N. J., García, R., Rodríguez-Mijangos, R., Chernov, V., Meléndrez, R., Pedroza-Montero, M. & Barboza-Flores, M., 1 may 2014, En: *Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms*. p. 99-102 4 p.

AG, TL, and IRSL dosimetric properties in X-ray irradiated HPHT diamond crystals

Gil-Tolano, M. I., Meléndrez, R., Lancheros-Olmos, J. C., Castaneda, B., Soto-Puebla, D., Chernov, V., Pedroza-Montero, M. & Barboza-Flores, M., 1 ene 2014, En: *Physica Status Solidi (A) Applications and Materials Science*. p. 2359-2362 4 p.

Afterglow and thermoluminescence properties in HPHT diamond crystals under beta irradiation

Chernov, V., Meléndrez, R., Gastélum, S., Pedroza-Montero, M., Píters, T., Preciado-Flores, S. & Barboza-Flores, M., 1 oct 2013, En: *Physica Status Solidi (A) Applications and Materials Science*. p. 2088-2094 7 p.

Viability of lymphocyte of gamma irradiated blood

Santacruz-Gomez, K., Melendrez, R., Castaneda, C., Barboza-Flores, M. & Pedroza-Montero, M., 17 abr 2013, p. 31-33. 3 p.

Dose enhancing behavior of hydrothermally grown Eu-doped SnO₂ nanoparticles

Sánchez Zeferino, R., Pal, U., Meléndrez, R., Durán-Muñoz, H. A. & Barboza Flores, M., 14 feb 2013, En: *Journal of Applied Physics*.

Assessment of OEP health's risk in nuclear medicine

Santacruz-Gomez, K., Manzano, C., Melendrez, R., Castaneda, B., Barboza-Flores, M. & Pedroza-Montero, M., 1 dic 2012, p. 79-81. 3 p.

A novel fitting method for evaluating the thermal quenching parameters of TL with an application to undoped CVD diamond

Chernov, V., Chernov, G., Meléndrez, R., Pedroza-Montero, M. & Barboza-Flores, M., 1 sep 2012, En: *Physica Status Solidi (A) Applications and Materials Science*. p. 1779-1785 7 p.

Persistent luminescence and thermoluminescence of UV/VIS -irradiated SrAl₂O₄:Eu²⁺, Dy³⁺ phosphor

Pereyda-Pierre, C., Meléndrez, R., García, R., Pedroza-Montero, M. & Barboza-Flores, M., 1 dic 2011, p. 1417-1420. 4 p.

Dosimetric assessment of mono-crystalline CVD diamonds exposed to beta and ultraviolet radiation

Pedroza-Montero, M., Meléndrez, R., Preciado-Flores, S., Chernov, V. & Barboza-Flores, M., 29 oct 2010, p. 205-210. 6 p.

Dose rate effects on the performance of MWCVD diamond films as TL gamma radiation dosimeter

Cruz-Zaragoza, E., Gastélum, S., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 ago 2010, En: *Physica Status Solidi (A) Applications and Materials Science*. p. 1944-1948 5 p.

Dose effects on the long persistent luminescence properties of beta irradiated

SrAl₂O₄:Eu²⁺, Dy³⁺ phosphor

Pedroza-Montero, M., Castañeda, B., Gil-Tolano, M. I., Arellano-Tánori, O., Meléndrez, R. & Barboza-Flores, M., 1 mar 2010, p. 311-313. 3 p.

Heating rate effects on the TL characteristics of hot filament CVD diamond film

Cruz-Zaragoza, E., Gastélum, S., Quispe, R., Meléndrez, R., Pedroza-Montero, M. & Barboza-Flores, M., 1 ene 2010, En: Physica Status Solidi (A) Applications and Materials. p. 2114-2118 5 p.

Correlation between thermally and optically stimulated luminescence in beta-irradiated undoped CVD diamond

Chernov, V., Piters, T. M., Meléndrez, R., Preciado-Flores, S., May, P. W. & Barboza-Flores, M., 1 sep 2009, En: Physica Status Solidi (A) Applications and Materials Science. p. 2098-2102 5 p.

Thermoluminescence assessment of 0.5, 1.0 and 4.0 μm thick HFCVD undoped diamond films

Meléndrez, R., Chernov, V., May, P. W., Castañeda, B., Pedroza-Montero, M. & Barboza-Flores, M., 1 sep 2009, En: Physica Status Solidi (A) Applications and Materials Science. p. 2103-2108 6 p.

Gamma-radiation effects on NaCl:Cu crystals

Cruz-Zaragoza, E., Chernov, V., Meléndrez, R. & Flores, M. B., 1 jul 2009, En: Physica Status Solidi (A) Applications and Materials Science. p. 1425-1428 4 p.

Temperature dependence of persistent luminescence in β -irradiated $\text{SrAl}_2\text{O}_4\text{:Eu}^{2+}$, Dy^{3+} phosphor

Meléndrez, R., Arellano-Tánori, O., Pedroza-Montero, M., Yen, W. M. & Barboza-Flores, M., 1 jul 2009, En: Journal of Luminescence. p. 679-685 7 p.

Thermoluminescence kinetic parameters of microwave chemically vapour-deposited diamond films at different gamma dose rates

Cruz-Zaragoza, E., Favalli, A., Gastelum, S., Furetta, C., Meléndrez, R. & Barboza-Flores, M., 1 abr 2009, En: Radiation Effects and Defects in Solids. p. 211-217 7 p.

Thermoluminescence and optically stimulated luminescence properties of β -Irradiated $\text{TiO}_2\text{:Yb}$ nanoparticles

Pal, M., Pal, U., Chernov, V., Meléndrez, R. & Barboza-Flores, M., 1 mar 2009, p. 1851-1857. 7 p.

Effect of Yb doping on the afterglow and thermoluminescent properties of ZnO nanophosphors

Pal, U., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 dic 2008, En: Journal of Nanoscience and Nanotechnology. p. 6513-6518 6 p.

Thermoluminescence properties of undoped and Dy^{3+} doped ZrO_2 nanophosphor under β -ray irradiation

Rodríguez, R. A., De La Rosa, E., Romero, V. H., Meléndrez, R., Sales, P., Diaz-Torres, L. A. & Barboza-Flores, M., 1 dic 2008, En: Journal of Nanoscience and Nanotechnology. p. 6419-6424 6 p.

CVD diamond applications as TL radiation dosimeters

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Ionoluminescence characterization of microwave and hot-filament CVD diamonds

Del Castillo, H. C., Ruvalcaba, J. L., Belmont, E., Calderón, T., Meléndrez, R. & Barboza-Flores, M., 1 sep 2008, p. 2221-2225. 5 p.

Dose rate effects on the thermoluminescence properties of HFCVD diamonds

Gastélum, S., Cruz-Zaragoza, E., Favalli, A., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 jul 2008, En: Diamond and Related Materials. p. 1283-1287 5 p.

The behavior of thermally and optically stimulated luminescence of $\text{SrAl}_2\text{O}_4\text{:Eu}^{2+}$, Dy^{3+} long persistent phosphor after blue light illumination

Chernov, V., Meléndrez, R., Pedroza-Montero, M., Yen, W. M. & Barboza-Flores, M., 1 feb 2008, En: Radiation Measurements. p. 241-244 4 p.

Thermoluminescence properties of undoped and nitrogen-doped CVD diamond exposed to gamma radiation

Barboza-Flores, M., Gastélum, S., Cruz-Zaragoza, E., Meléndrez, R., Chernov, V., Pedroza-Montero, M. & Favalli, A., 1 feb 2008, En: Radiation Measurements. p. 379-382 4 p.

Persistent luminescence dosimetric properties of UV-irradiated SrAl₂O₄:Eu²⁺, Dy³⁺ phosphor

Arellano-Tánori, O., Meléndrez, R., Pedroza-Montero, M., Castañeda, B., Chernov, V., Yen, W. M. & Barboza-Flores, M., 1 ene 2008, En: Journal of Luminescence. p. 173-184 12 p.

Dopant concentration effect on the TL response of ZrO₂:Lu³⁺ nanocrystals under β-ray irradiation

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Afterglow and thermally stimulated luminescence induced by UV radiation in CVD diamond

Barboza-Flores, M., Schreck, M., Preciado-Flores, S., Meléndrez, R., Pedroza-Montero, M. & Chernov, V., 1 sep 2007, p. 3047-3052. 6 p.

Dose rate effects on the thermoluminescence kinetics properties of MWCVD diamond films

Gastélum, S., Cruz-Zaragoza, E., Favalli, A., Chernov, V., Meléndrez, R., Soto-Puebla, D., Pedroza-Montero, M. & Barboza-Flores, M., 1 sep 2007, p. 3057-3058. 2 p.

Thermal annealing effects on the TL response of beta-irradiated HPHT Ib type synthetic diamond

Preciado-Flores, S., Meléndrez, R., Chernov, V., Soto-Puebla, D., Pedroza-Montero, M. & Barboza-Flores, M., 1 sep 2007, p. 3041-3046. 6 p.

Dose rate effects on the thermoluminescence properties of MWCVD diamond films

Gastélum, S., Cruz-Zaragoza, E., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 jul 2007, p. 587-595. 9 p.

On the use of MWCVD diamond as thermoluminescent gamma dosimeter

Gastélum, S., Cruz-Zaragoza, E., Chernov, V., Meléndrez, R., Pedroza-Montero, M. & Barboza-Flores, M., 1 jul 2007, En: Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms. p. 592-598 7 p.

Photoluminescence, afterglow and thermoluminescence in SrAl₂O₄: Eu²⁺, Dy³⁺ irradiated with blue and UV light

Chernov, V., Piters, T. M., Meléndrez, R., Yen, W. M., Cruz-Zaragoza, E. & Barboza-Flores, M., 1 abr 2007, En: Radiation Measurements. p. 668-671 4 p.

Thermoluminescence properties of undoped and Tb³⁺ and Ce³⁺ doped YAG nanophosphor under UV-, X- and β-ray irradiation

De la Rosa, E., Rodríguez, R. A., Meléndrez, R., Salas, P., Diaz-Torres, L. A. & Barboza-Flores, M., 1 feb 2007, En: Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms. p. 357-364 8 p.

TL, IRSL and phototransferred TL in beta-irradiated SrAl₂O₄:Eu²⁺, Dy³⁺

Chernov, V., Yen, W. M., Agúndez-Arvizu, Z., Meléndrez, R. & Barboza-Flores, M., 1 dic 2006, p. 231-248. 18 p.

Thermoluminescence properties of ZnO and ZnO:Yb nanophosphors

Pal, U., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 13 nov 2006, En: Applied Physics Letters.

Optical absorption and thermoluminescence in single NaCl: Cu crystals exposed to ⁶⁰Co and UV light

Cruz-Zaragoza, E., Barboza-Flores, M., Chernov, V., Meléndrez, R., Ramos, B. S., Negrón-Mendoza, A., Hernández, J. M. & Murrieta, H., 15 sep 2006, En: Radiation Protection Dosimetry. p. 102-105 4 p.

Performance of CVD diamond as an optically and thermally stimulated luminescence dosimeter

Preciado-Flores, S., Schreck, M., Meléndrez, R., Chernov, V., Bernal, R., Cruz-Vázquez, C., Cruz-Zaragoza, E. & Barboza-Flores, M., 15 sep 2006, En: Radiation Protection Dosimetry. p. 226-229 4 p.

Afterglow, TL and IRSL in beta-irradiated HPHT type Ib synthetic diamond

Meléndrez, R., Schreck, M., Chernov, V., Preciado-Flores, S., Pedroza-Montero, M. & Barboza-Flores, M., 1 sep 2006, p. 3167-3172. 6 p.

All optical read-out radiation dosimeter using CVD synthetic diamond

Preciado-Flores, S., Schreck, M., Meléndrez, R., Chernov, V., Pedroza-Montero, M. & Barboza-Flores, M., 1 sep 2006, p. 3173-3178. 6 p.

Beta radiation induced thermoluminescence in pure ZrO_2 prepared by sol-gel

Chernov, V., Belykh, A., Meléndrez, R. & Barboza-Flores, M., 15 jul 2006, En: Journal of Non-Crystalline Solids. p. 2543-2547 5 p.

γ radiation thermoluminescence performance of HFCVD diamond films

Gastélum, S., Cruz-Zaragoza, E., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 jul 2006, En: Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms. p. 103-108 6 p.

Gamma radiation effects on commercial Mexican bread making wheat flour

Agúndez-Arvizu, Z., Fernández-Ramírez, M. V., Arce-Corrales, M. E., Cruz-Zaragoza, E., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 abr 2006, En: Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms. p. 455-458 4 p.

F-center effects in the luminescent properties of $KCl_{1-x}Br_x$ with divalent lead impurity

Cruz-Zaragoza, E., Barboza-Flores, M., Chernov, V., Meléndrez, R., Gastélum, S., Ramos, S. B., Hernández, J. A. & Murrieta, H. S., 7 nov 2005, p. 568-571. 4 p.

Thermoluminescence and optically stimulated luminescence properties of nanocrystalline Er^{3+} and Yb^{3+} doped $Y_3Al_5O_{12}$ exposed to β -rays

Rodríguez, R. A., De La Rosa, E., Salas, P., Meléndrez, R. & Barboza-Flores, M., 7 nov 2005, En: Journal of Physics D: Applied Physics. p. 3854-3859 6 p.

Thermoluminescence characterization of a MWCVD diamond film exposed to β -rays and UV radiation

Preciado-Flores, S., Schreck, M., Meléndrez, R., Chernov, V., Bernal, R., Cruz-Vázquez, C., Brown, F. & Barboza-Flores, M., 1 sep 2005, p. 2206-2211. 6 p.

TL, OSL, Raman spectroscopy and SEM characterization of boron doped diamond films

Pedroza-Montero, M., Chernov, V., Castañeda, B., Meléndrez, R., Gonçalves, J. A. N., Sandonato, G. M., Bernal, R., Cruz-Vázquez, C., Brown, F., Cruz-Zaragoza, E. & Barboza-Flores, M., 1 sep 2005, p. 2154-2159. 6 p.

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Actividades

Universidad de Sonora (Unidad organizativa)

Rodrigo Meléndrez Amavizca (Presidente)
2016 → ...

Universidad Autónoma de San Luis Potosí (Organización externa)

Rodrigo Meléndrez Amavizca (Miembro)
2014

Universidad de Sonora (Unidad organizativa)

Rodrigo Meléndrez Amavizca (Miembro)
2011 → ...

Premios

Profesor con Perfil Deseable (PROMEP-PRODEP)

Meléndrez Amavizca, Rodrigo (Beneficiario), 2000

SNI Nivel 1

Meléndrez Amavizca, Rodrigo (Beneficiario), 1 jul 1999

SNI Nivel 2

Meléndrez Amavizca, Rodrigo (Beneficiario), 1 jul 2005

SNI Nivel 3

Meléndrez Amavizca, Rodrigo (Beneficiario), 1 ene 2015

SNI Nivel Candidato

Meléndrez Amavizca, Rodrigo (Beneficiario), 1 jul 1996