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Física de Radiaciones
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Qualifications

PhD, Centro de Investigación Científica y de Educación Superior de Ensenada
1993 → 1996

Master, Universidad de Sonora
1991 → 1993

Bachelor, Universidad de Sonora
1987 → 1991

Research Interests

Estudio de las propiedades luminiscentes de materiales nano y microfosforos 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.

Employment

Departamento de Investigación en Física

Universidad de Sonora

Mexico

1 Jan 1942 → present

Física de Radiaciones

Universidad de Sonora

Mexico

1 Jan 1942 → present

Research outputs

Synthesis and thermoluminescence of erbium-activated lithium niobate

Munoz, I. C., Landavazo, M. A., Brown, F., Cruz-Zaragoza, E., Alvarez-Montano, V. E., Melendrez-Amavizca, R., Gil-Tolano, I. & Tanori-Cordova, J., Dec 2018, In : Applied Radiation and Isotopes. 142, p. 64-70

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, In : 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, In : Physica Status Solidi (A) Applications and Materials Science. 215, 22, 1800246.

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, In : Physica Status Solidi (A) Applications and Materials Science.

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., Meléndrez-Amavizca, R., Barboza-Flores, M., Garcia-Gutierrez, R. & Auciello, O., May 2018, In : Diamond and Related Materials. 85, p. 117-124

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 Dec 2017, In : International Journal of Chemical Reactor Engineering.

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, In : 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, In : Optical Materials. p. 91-97 7 p.

Nano alterations of membrane structure on both -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., Meléndrez-Amavizca, R. & Pedroza-Montero, M., 2017, In : International Journal of Radiation Biology. 93, 12, p. 1306-1311

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, In : 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, In : 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., Meléndrez-Amavizca, R., Teran Arce, F., Mata-Haro, V., Landon, P. B., Zhang, C., Pedroza-Montero, M. & Lal, R., 7 Apr 2016, In : Nanoscale. 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 Jan 2016, In : Physica Status Solidi (A) Applications and Materials Science. p. 2507-2511 5 p.

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

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

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., Meléndrez, R., Álvarez-García, S. & Pedroza-Montero, M., 1 Jan 2015, In : 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, In : 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 Jan 2014, In : 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, In : Physica Status Solidi (A) Applications and Materials Science. p. 2088-2094 7 p.

Viability of lymphocyte of gamma irradiated blood

Santacruz-Gomez, K., Meléndrez, R., Castaneda, C., Barboza-Flores, M. & Pedroza-Montero, M., 17 Apr 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, In : Journal of Applied Physics.

Assessment of OEP health's risk in nuclear medicine

Santacruz-Gomez, K., Manzano, C., Meléndrez, R., Castaneda, B., Barboza-Flores, M. & Pedroza-Montero, M., 1 Dec 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, In : 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 Dec 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 Aug 2010, In : 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 Jan 2010, In : 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., Píters, T. M., Meléndrez, R., Preciado-Flores, S., May, P. W. & Barboza-Flores, M., 1 Sep 2009, In : 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, In : 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, In : 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, In : 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 Apr 2009, In : 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 Dec 2008, In : 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 Dec 2008, In : Journal of Nanoscience and Nanotechnology. p. 6419-6424 6 p.

CVD diamond applications as TL radiation dosimeters

Barboza-Flores, M., Meléndrez, R., Chernov, V., Pedroza-Montero, M., Gastelum, S. & Cruz-Zaragoza, E., 13 Nov 2008, p. 145-154. 10 p.

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

Gastelum, S., Cruz-Zaragoza, E., Favalli, A., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 Jul 2008, In : 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, In : Radiation Measurements. p. 241-244 4 p.

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

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

Persistent luminescence dosimetric properties of UV-irradiated $\text{SrAl}_2\text{O}_4\text{:Eu}^{2+}$, Dy^{3+} phosphor

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

Dopant concentration effect on the TL response of $\text{ZrO}_2\text{:Lu}^{3+}$ nanocrystals under β -ray irradiation

Romero, V. H., De La Rosa, E., Rodríguez, R. A., Salas, P., Meléndrez, R. & Barboza-Flores, M., 1 Dec 2007.

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, In : 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 Apr 2007, In : 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, In : 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 Dec 2006, p. 231-248. 18 p.

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, In : 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, In : 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 ZrO₂ prepared by sol-gel

Chernov, V., Belykh, A., Meléndrez, R. & Barboza-Flores, M., 15 Jul 2006, In : 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, In : 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 Apr 2006, In : 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, In : 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.

Optically stimulated luminescence properties of nanocrystalline $Y^{3+}Al^{5+}O_{12}$ phosphor exposed to β radiation

De La Rosa, E., Rodríguez, R. A., Díaz-Torres, L. A., Salas, P., Meléndrez, R. & Barboza-Flores, M., 1 Apr 2005, p. 1245-1249. 5 p.

OSL and TL dosimeter characterization of boron doped CVD diamond films

Gonçalves, J. A. N., Sandonato, G. M., Meléndrez, R., Chernov, V., Pedroza-Montero, M., De La Rosa, E., Rodríguez, R. A., Salas, P. & Barboza-Flores, M., 1 Apr 2005, p. 1231-1234. 4 p.

Thermoluminescence characterization of nanocrystalline and single $Y^{3+}Al^{5+}O_{12}$ crystal exposed to β -irradiation for dosimetric applications

Rodríguez, R. A., De La Rosa, E., Meléndrez, R., Salas, P., Castañeda, J., Félix, M. V. & Barboza-Flores, M., 1 Apr 2005, p. 1240-1244. 5 p.

Thermoluminescence characterization of Tb^{3+} and Ce^{3+} doped nanocrystalline $Y_3Al_5O_{12}$ exposed to X- and β -ray irradiation

Rodríguez, R. A., De La Rosa, E., Díaz-Torres, L. A., Salas, P., Meléndrez, R. & Barboza-Flores, M., 1 Nov 2004, In : Optical Materials. p. 293-299 7 p.

Optically stimulated luminescence dosimetry on CVD diamond films

Barboza-Flores, M., Meléndrez, R., Gonçalves, J. A. N., Sandonato, G. M., Chernov, V., Cruz-Zaragoza, E., Ochoa-Nuño, J. D., Bernal, R., Cruz-Vázquez, C. & Brown, F., 1 Sep 2004, p. 2548-2552. 5 p.

Defects generated by irradiation with gamma rays in lead doped KCl-KBr mixed single crystals

Cruz-Zaragoza, E., Ramos, B. S., Barboza-Flores, M., Chernov, V., Meléndrez, R., Hernández, A. J. & Murrieta, S. H., 1 Aug 2004, p. 695-698. 4 p.

Preparation, photo- and thermo-luminescence characterization of Tb³⁺ and Ce³⁺ doped nanocrystalline Y₃Al₅O₁₂ exposed to UV-irradiation

Rodríguez-Rojas, R. A., De la Rosa-Cruz, E., Díaz-Torres, L. A., Salas, P., Meléndrez, R., Barboza-Flores, M., Meneses-Nava, M. A. & Barbosa-García, O., 1 Apr 2004, In : Optical Materials. p. 285-293 9 p.

Thermoluminescence characterization of CVD diamond film exposed to UV and beta radiation

Barboza-Flores, M., Meléndrez, R., Gastélum, S., Chernov, V., Bernal, R., Cruz-Vázquez, C., Brown, F., Pedroza-Montero, M., Gan, B., Ahn, J., Zhang, Q. & Yoon, S. F., 1 Sep 2003, p. 125-130. 6 p.

Monoclinic ZrO₂ as a broad spectral response thermoluminescence UV dosimeter

Salas, P., De la Rosa-Cruz, E., Díaz-Torres, L. A., Castaño, V. M., Meléndrez, R. & Barboza-Flores, M., 1 Apr 2003, In : Radiation Measurements. p. 187-190 4 p.

Photoluminescence and thermoluminescence of YAG:Ce³⁺, Tb³⁺ nanocrystalline under UV-, X- and β-irradiation

De la Rosa-Cruz, E., Díaz-Torres, L. A., Córdova-Martínez, W., Rodríguez-Rojas, R. A., Meneses-Nava, M. A., Barbosa-García, O., Salas, P., Barboza-Flores, M. & Meléndrez, R., 1 Dec 2002, p. 948-955. 8 p.

Application of a thermoluminescence method for the detection of irradiated spices

Gastelum, S., Osuna, I., Melendrez, R., Cruz-Zaragoza, E., Chernov, V., Calderon, T., Barboza-Flores, M., Horowitz, Y. S. & Oster, L., 19 Oct 2002, In : Radiation Protection Dosimetry. p. 137-140 4 p.

Thermoluminescence properties of KCl:1-X:KBr:X:Pb²⁺ mixed crystals

Cruz-Zaragoza, E., Melendrez, R., Chernov, V., Barboza-Flores, M., PETERS, T. M., Hernandez, J. A. & Murrieta, H. S., 19 Oct 2002, In : Radiation Protection Dosimetry. p. 455-458 4 p.

Ultraviolet thermoluminescent dosimetry using high temperature peaks in KCl:Eu²⁺ crystals

Chernov, V., Meléndrez, R. & Barboza-Flores, M., 19 Oct 2002, In : Radiation Protection Dosimetry. p. 425-428 4 p.

Chemically vapor deposited diamond film ultraviolet thermoluminescence dosimeter

Gan, B., Ahn, J., Zhang, Q., Yoon, S. F., Meléndrez, R. & Barboza-Flores, M., 1 Sep 2002, In : Materials Letters. p. 80-84 5 p.

Application of CVD diamond films for UV thermoluminescence dosimeter

Ahn, J., Gan, B., Zhang, Q., Rusli, Yoon, S. F., Ligatchev, V., Wang, S. G., Huang, Q. F., Chew, K., Meléndrez, R. & Barboza-Flores, M., 20 Mar 2002, p. 1003-1007. 5 p.

Thermoluminescence in CVD diamond films: Application to actinometric dosimetry

Barboza-Flores, M., Melendrez, R., Chernov, V., Cataneda, B., Pedroza-Montero, M., Gan, B., Ahn, J., Zhang, O. & Yoon, S. F., 1 Jan 2002, In : Radiation Protection Dosimetry. p. 443-446 4 p.

Comparative investigations of TL and OSL in KCl:Eu²⁺ crystals irradiated with UV and X-rays

Pedroza-Montero, M., Castañeda, B., Meléndrez, R., Chernov, V. & Barboza-Flores, M., 1 Dec 2001, In : Radiation Effects and Defects in Solids. p. 319-324 6 p.

Photo-, Thermo- and Optically Stimulated Emission Spectra in KCl: Eu²⁺

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Activities

Universidad de Sonora (Organizational unit)
Rodrigo Meléndrez Amavizca (Chair)
2016 → ...

Universidad Autonoma de San Luis Potosi (External organization)

Rodrigo Meléndrez Amavizca (Member)

2014

Universidad de Sonora (Organizational unit)

Rodrigo Meléndrez Amavizca (Member)

2011 → ...

Prizes**Profesor con Perfil Deseable (PROMEP-PRODEP)**

Rodrigo Meléndrez Amavizca (Recipient), 2000

SNI Nivel 1

Rodrigo Meléndrez Amavizca (Recipient), 1 Jul 1999

SNI Nivel 2

Rodrigo Meléndrez Amavizca (Recipient), 1 Jul 2005

SNI Nivel 3

Rodrigo Meléndrez Amavizca (Recipient), 1 Jan 2015

SNI Nivel Candidato

Rodrigo Meléndrez Amavizca (Recipient), 1 Jul 1996