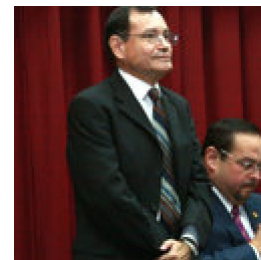


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Research Interests

Diseño y fabricación de nuevos materiales micro y nanoestructurados, aplicaciones biomédicas, detectores de radiación ionizante y no ionizante. Propiedades ópticas, defectos, termoluminiscencia, luminiscencia ópticamente estimulada en materiales aislantes. Aplicaciones de la termoluminiscencia y la luminiscencia ópticamente estimulada para usos biomédico y detección de alimentos previamente irradiados con fines de esterilización.

Qualifications

PhD, New York University

Employment

Bio espectroscopías e imagenologías en nanoplataformas médicas

Universidad de Sonora
Mexico
1 Jan 1942 → present

Departamento de Investigación en Física

Universidad de Sonora
Mexico
1 Jan 1942 → present

Research outputs

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., 1 Jun 2019, In : *Optical Materials*. 92, p. 46-52 7 p.

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 Apr 2019, In : *Optical Materials*. 92, p. 46-52 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, 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

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

Montes-Gutiérrez, J. A., Alcantar-Peña, J. J., de Obaldía, E., Zúñiga-Rivera, N. J., Chernov, V., Meléndrez-Amavizca, R., Barboza-Flores, M., Garcia-Gutierrez, R. & Auciello, O., 1 May 2018, In : Diamond and Related Materials. p. 117-124 8 p.

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

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On the use of MWCVD diamond as thermoluminescent gamma dosimeter

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Photoluminescence, afterglow and thermoluminescence in SrAl_2O_4 : Eu^{2+} , Dy^{3+} irradiated with blue and UV light

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Courses

DESARROLLO EXPERIMENTAL I

Marcelino Barboza-Flores

11/01/16 → 7/08/16

DESARROLLO EXPERIMENTAL I

Marcelino Barboza-Flores

13/08/18 → 13/01/19

DESARROLLO EXPERIMENTAL II

Marcelino Barboza-Flores

14/01/19 → 11/08/19

DESARROLLO EXPERIMENTAL II

Marcelino Barboza-Flores

8/08/16 → 15/01/17

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores

14/08/17 → 14/01/18

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores

15/01/18 → 12/08/18

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores
11/01/16 → 7/08/16

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores
13/08/18 → 13/01/19

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores
8/08/16 → 15/01/17

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores
14/01/19 → 11/08/19

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores
16/01/17 → 13/08/17

FÍSICA CONTEMPORÁNEA

Marcelino Barboza-Flores
12/08/19 → 12/01/20

MECANICA CLASICA

Marcelino Barboza-Flores
14/08/17 → 14/01/18

PRACTICA INVESTIGATIVA I

Marcelino Barboza-Flores
14/08/17 → 14/01/18

PRÁCTICA INVESTIGATIVA II

Marcelino Barboza-Flores
15/01/18 → 12/08/18

SEMINARIO DE ESTADO SOLIDO

Marcelino Barboza-Flores
8/08/16 → 15/01/17

TESIS I

Marcelino Barboza-Flores
16/01/17 → 13/08/17

TÓPICOS SELECTOS DE NANOTECNOLOGÍA

Marcelino Barboza-Flores

14/08/17 → 14/01/18

NA

NA

2019	Lorem ipsum dolor sit amet
2018	Lorem ipsum dolor sit amet
2017	Lorem ipsum dolor sit amet
2016	Lorem ipsum dolor sit amet
2015	Lorem ipsum dolor sit amet
2014	Lorem ipsum dolor sit amet