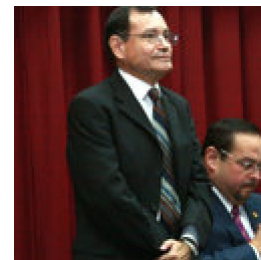


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Research Interests

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
Award Date: 15 Jun 1988

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

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, In: Journal of Luminescence. 251, 119196.

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

Quantification of the radiosensitization effect of high-Z nanoparticles on photon irradiated cells: Combining Monte Carlo simulations and an analytical approach to the local effect model

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

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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.

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Viability of Lymphocyte of Gamma Irradiated Blood

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Assessment of OEP health's risk in nuclear medicine

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