

LITERATURA CITADA

- Ahn, J., Gan, B., Zhang, Q., Rusli, Yoon, S.F., Ligatchev, V., Wang, S.G., Huang, Q.F., Chew, K., Melendrez, R., Barboza-Flores, M. 2002. *Application of CVD diamond films for UV thermoluminescence dosimeter*. International Journal of Physics Modern B. 16 (6-7), 1003-1007 p.
- Aboltin, D.E., Grabovskis, V.J., Kangro, A.R., Lushchik, Ch., O'Konnell-Bronin, A.A., Vitol, I.K., Zirap, V.E., 1978. *Thermally stimulated and tunnelling luminescence and Frenkel defect recombination in KCl at 4.2 to 77 K*. Physica Status Solidi. (a) 47, 667-675 p.
- Aceves, R., Pérez-Salas, R., Barboza-Flores, M. 1994. *The role of F centres in the thermoluminescence of low-energy uv- and x-irradiated KCl:Eu²⁺*. Journal of Physics.: Condensed Matter 6, 10397-10405 p.
- Aceves, R., Pérez-Salas, R., Meléndrez, R. y Barboza-Flores. 1998. *Evidence of STE emission in low temperature thermoluminescence of pure KCl UV-irradiated at 15 K*. Radiation Effects & Defects in Solids 146, 251-259 p.
- Aceves, R., Pérez-Salas, R., Pal, U. 2001. *Cathodoluminescence and optically active regions of intrinsic and induced defects in Eu²⁺-doped KCl crystals*. Physica Status Solidi(b), 233(2), 364-372 p.
- Aceves, R., Pérez-Salas, R., Barboza-Flores, M., Pal, U., Zaldívar, M. H., Piqueras, J. 2002. *Cathodoluminescence in europium doped KCl crystals*. Radiation effects and defects in solids, 154(3-4), 313-317 p.

- Aguirre de Cárcer, I., Cussó, F., Jaque, F., 1988. *Afterglow and photoconductivity in europium-doped alkali halides*. Physical Review, 38(15); 10812-10815 p.
- Aguirre de Cárcer, I., Lifante, G., Cussó, F., Jaque, F., Calderón, T. 1991. *Europium-doped alkali halides as a selective ultraviolet dosimeter material in the actinic region*. Appl. Phys. Lett. 58(17) 1825-1826 p.
- Aguirre de Cárcer, I. Rowlands, A.P. Jaque, F. y Townsend, P.D. 1998. *Thermoluminescence of KCl:Eu²⁺ under ultraviolet irradiation at different temperatures*. Radiation Measurements 29(2) 203-208 p.
- Álvarez, S., Piters, T.M., Barboza-Flores, M. 2001. *UV induced afterglow of KCl:Eu, KBr:Eu and NaCl:Eu at low temperature*. Radiation Measurements, 33, 813-817 p.
- Álvarez, S., Piters, T. M. Comunicación privada, 2002.
- Ausín, V., Álvarez Rivas, J. L. 1972. *Thermoluminescence and annealing of F centres in KCl γ irradiated at room temperature*. J. Phys. C.: Solid State Phys. 5 82-96 p.
- Babin, V., Krasnikov, A., Zazubovich, S. 2002. *Charge-transfer processes in doped alkali halides*. Europhysical Conference on Defects in Insulating Materials, Julio 1-5, 2002, Wrocław, Polonia.
- Barboza-Flores, M. Meléndrez, R. Castañeda, B. Piters, T.M., Pérez-Salas, R. Aceves, R. Muñoz, J.A., Aguirre de Cárcer, I. 1998. *β -ray irradiation thermoluminescence and dosimetric characterization of KCl_{1-x}Br_x:Eu⁺² mixed crystals*. Radiation Measurements 29(5) 487-491 p.
- Barboza-Flores, M., Meléndrez, R., Piters, T.M., Castañeda, B., Pérez-Salas, R., Aceves, R. 1999. *Europium-doped KCl, KBr and α -Al₂O₃:C crystals as luminescence*

- detectors in the actinometric region*. Proceedings 9th Cimtec-World Forum on New Materials, Simposium X- Innovative Light Emitting Materials. Techna.
- Barboza-Flores, M., Meléndrez, R., Chernov, V., Castañeda, B., Pedroza-Montero, M., Gan, B., Ahn, J., Zhang, Q., Yoon, S. F. 2002. *Thermoluminescence in CVD Diamond Films: Application to Actinometric Dosimetry*. Radiation Protection Dosimetry. 100: 443-446 p.
- Barboza-Flores, M., Meléndrez, R., Gastelum, S., Chernov, V., Bernal, R., Cruz-Vazquez, C., Brown, F., Pedroza-Montero, M., Gan, B., Ahn, J., Zhang, Q., Yoon, S. F. 2003. *Thermoluminescence characterization of CVD diamond films exposed to UV and beta radiation*. Physica Status Solidi (a), 199(1), 125-130 p.
- Benabdesselam, M., Iacconi, P., Briand, D., Lapraz, D., Butler, J.E. 1999. *Selected Thermoluminescent Properties in CVD Diamond Film*. Radiation Protection Dosimetry. 84 (1-4), 257-260 p.
- Benabdesselam, M., Iacconi, P., Briand, D., Butler, J. E. 2000a. *Performance of CVD diamond as a thermoluminescent doseimeter*. 9(3-6), 1013-1016 p.
- Benabdesselam, M., Iacconi, P., Briand, Berkane-Krachai, A., Gheeraert, E., Kanda, H. 2000b. *Thermoluminescence of nickel-doped synthetic diamond crystals*. Journal of Applied Physics. 88 (8), 4648-4653 p.
- Benabdesselam, M., Iacconi, P., Briand, Lapraz, D., Gheeraert, E., Daneuville, A. 2000c. *Characterization by thermoluminescence of boron doped polycrystalline diamond films*. Diamond and Related Materials. 9(1), 56-60 p.

- Béniere, F., Béniere, M., Hari Babu, V., Wiswanatha Reddy, K. 1994. *Self- and heterodiffusion in crystalline solid solutions*. J. Phys. Chem. Solids 55(7) 595-604p.
- Bergonzo, P., Tromson, D., Mer, C., Guizard, B., Foulon, F., Brambilla, A. 2001. *Particle and Radiation Detectors Based on Diamond*. Physica Status Solidi (a). 185(1), 167-181 p.
- Buenfil, E., Brandan, M.E. 1992. *Dosimetric properties of europium-doped potassium bromide thermoluminescent crystals*. Health Physics 62(4) 341-343 p.
- Borchi, E., Furetta, C., Kitis, G., Leroy, C., Sussmann, R.S., Whitehead, A.J. 1996. *Assessment of CVD Diamond as a Thermoluminescence Dosemeter Material* Radiation Protection Dosimetry 65. 291-295 p.
- Borchi, E., Bruzzi, M., Bucciolini, M., Guasti, A., Mazzocchi, S., Pirollo, S., Sciortino, 1999. *TSC response of irradiated CVD diamond films*. Nuclear Instruments and Methods in Physics Research A. 426, 181-184 p.
- Bøtter-Jensen, L., Bulur, E., Duller, G.A.T., Murray, A.S. 2002. *Advances in luminescence instrument systems*. Radiation Measurements, 32 (5-6), 523-528 p.
- Briand, D., Iaconi, P., Benabdesselam, M., Lapraz, D., May P.W., Rego, C.A. 2000. *Thermally stimulated properties of CVD diamond films*. Diamond and Related Materials. 9(6-3), 1245-1248 p.
- Camacho Q., G. Muñoz H., Rubio J. 1988. *Dosimetric properties of KCl:Eu*. Journal of Materials Science Letters 7, 437-440 p.

- Castañeda, B., Aceves, R., Píters, T.M., Barboza-Flores, M., Meléndrez, R., Pérez-Salas, R. 1996. *Actinometric thermoluminescence response of $KCl_{1-x}Br_x:Eu^{2+}$ mixed crystals*. Appl. Phys. Lett. 69, 1388 p.
- Castañeda, B., Meléndrez, R., Píters, T.M., Pérez-Salas, R., Aceves, R., Barboza-Flores, M. 1999. *Thermostimulated light emission of $KCl_{1-x}Br_x:Eu^{2+}$ mixed crystals subjected to ultraviolet radiation*. Proceedings 9th Cimtec-World Forum on New Materials, Simposium X- Innovative Light Emitting Materials. Techna.
- Castañeda, B., Pedroza-Montero, M., Meléndrez, R., Barboza-Flores, M. 2000. *Potassium halide detectors : Novel results and applications*. Physica Status Solidi(b) 220, 663-669 p.
- Chernov, V., Meléndrez, R., Barboza-Flores, M. 2001. *Photo- Thermo- and optically stimulated emission spectra in $KCl:Eu^{2+}$* . Phys. Stat. Sol. (a) 187(2), 535-542 p.
- Clark B. A., Barboza F. M., Rodríguez M. R., Ruíz Mejía C. 1981. *The F band of a surface F center*. Rev. Mex. de Fís. 28, 29 p.
- Diffey, B. L. 1991. *Solar ultraviolet radiation effects on biological systems*. Phys. Med. Biol., 36, 299-328 p.
- Furetta, C., Kitis, G., Brambilla, A., Jany, C., Bergonzo, P., Foulon, F. 1999. *Thermoluminescence Characteristics of a New Production of Chemical Vapour Deposition Diamond*. Radiation Protection Dosimetry. 84: 201-205 p.
- Gan, B., Ahn, J., Zhang, Q., Yoon, S. F., Meléndrez R., Barboza-Flores, M. 2002. *Chemically vapor deposited diamond film ultraviolet thermoluminescence dosimeter*. Materials Letters.56, 80-84 p.

- Gonon, P., Prawer, S., Jamienson, D. 1997. *Thermally stimulated currents in polycrystalline diamond films: Application to radiation dosimetry*. Applied Physics Letters. 70, 2996-2998 p.
- Itoh, F., Kitayama, K., Tamura, Y. 1990. *Optical outer-product learning in a neural network using optically stimuable phosphor*. Optics Letters, 15 (15), 860 p.
- Itoh, N. 1989. *Defect processes induced by electronic excitation in insulators*. World Scientific Publishing Co. Pte. Ltd. Singapore. 280 p.
- Jaques, F., Cussó, F., Aguirre de Cárcer, I., Lifante, G. 1991. *Actinic region dosimetry*. Health Physics 60(4) 579-580 p.
- Jiménez de Castro, M., Alvarez Rivas, J.L. 1979. *Thermoluminescence in KCl x irradiated at 80 K*. Phys. Rev. B 19(12) 6484-6492 p.
- Jutamulia, S., Storti, G.M., Lindmayer, J., Seiderman, W. 1991. *Use of electron trapping materials in optical signal-processing .2.2-dimensional associative memory*. Apl. Opt., 30(20), 2879-2884 p.
- Kristianpoller, N., Israeli, M. 1970. *Excitonic processes and thermoluminescence*. Phys. Rev. B 2(6) 2175-2182 p.
- López, F.J., Colino, P., Pérez, M.M., Jaques, F. 1991. *Thermoluminescence induced by x-ray or ultraviolet irradiation at low temperatures in NaCl:Eu²⁺*. J. Phys.: Condens. Matter 3. 8127-8133 p.
- Marczewska, B., Bilski, P., Nesladek, M., Olko, P., Rębisz, M., Waligórski, M.P.R. 2002. *A Study of the Thermoluminescent Properties of CVD Diamond Detectors*. Physica Status Solidi (a), 193(3), 470-475 p.

- May, P. 2000. *Diamond thin films: a 21st-century material*. Phil. Trans. R. Soc. Lond. A 358, 473-495 p.
- McKeever, S.W.S. 1988. *Thermoluminescence of Solids*. Cambridge University. 392 p.
- McKeever, S.W.S., Chen, R. 1997. *Theory of thermoluminescence and related phenomena*. World Scientific Pub. Co. 559 p.
- Meléndrez, R. Pérez-Salas, R. Pashchenko, L.P. Aceves, R. Piters, T.M., Barboza-Flores, M. 1996a. *Dosimetric properties of KCl:Eu²⁺ under α , β , γ , x ray and ultraviolet irradiation*. Appl. Phys. Lett. 68 (24) 3398-3400 p.
- Meléndrez R; Perez-Salas R; Aceves R; Piters T.M; Barboza-Flores M. 1996b. *Dosimetric characteristics of ultraviolet and x-ray-irradiated KBr:Eu²⁺ thermoluminescence crystals*. Applied Physics Letters, 69(8), 1068-1070 p.
- Meléndrez, R., Pedroza-Montero, M., Castañeda, B., Goncalves, J.A.N. Sandonato, G. M., Chernov, V., Cruz-Zaragoza, E., Preciado-Flores, S., Schreck, M., Ochoa-Nuño, J.D., Bernal, R., Cruz-Vázquez, C., Brown, F., Barboza-Flores, M. 2004. *Dosimetría TL y OSL de Películas de Diamane CVD Puras e Impurificadas con Boro-Carbono*. Proceedings VII Conferencia Internacional XVII Congreso Nacional sobre Dosimetría de Estado Sólido 73-80 p.
- Muñoz, J. A., di Paolo, R. Tocho, J. O., Cussó, F., Castañeda, B., Pérez-Salas, R., Aceves, R., Barboza-Flores, M. 1998. *Luminescent quantum efficiency of Eu²⁺ ions in mixed KCl_{1-x}Br_x crystals*. J. Phys.: Condens. Matter 10, 4113-4118 p.
- Nanto, H. Murayama, K. Usuda, T. Endo, F. Iría, Y. Taniguchi, S., Takeuchi, J. 1993. J. Appl. Phys. 74 1443 p.

- Opyrchal H., Nierzewski, K.D. 1979. *Photostimulated Low-Temperature recombination luminescence in γ -irradiated KCl:Eu²⁺ crystals*. Physica Status Solidi(b) 95, 251-257 p.
- Opyrchal, H., Nierzewski, K.D. y Macalik, B. 1982. *Effect of γ -irradiation on Eu²⁺ ions in KCl crystals*. Physica Status Solidi(b) 112, 429-434 p.
- Parfianovich, I.A., Shuraleva, E.I., Ivakhnenko, P.S. 1970. *On Mechanism of recombination luminescence of alkali-halides doped by Eu²⁺*. Journal of Luminescence 1,2 657-668 p.
- Pedroza-Montero, M., R. Meléndrez, R. Pérez-Salas, R., Aceves, R., Píters, T. M., Barboza-Flores, M. 1999. *Estudio comparativo de la termoluminiscencia, entre los materiales α -Al₂O₃:C, KCl:Eu²⁺, KBr:Eu²⁺ y Vycor*. Proceedings de la II Conferencia Internacional y XII Congreso Nacional sobre Dosimetría de Estado Sólido, 101-106 p.
- Pedroza-Montero, M., Castañeda, B., Meléndrez, R., Píters, T.M., Barboza-Flores, M. 2000. *Thermoluminescence, optical stimulated luminescence and defect creation in europium doped KCl and KBr crystals*. Physica Status Solidi (b) 220, 671-676 p.
- Pedroza-Montero, M., Castañeda, B., Meléndrez, R., Chernov, V., Barboza-Flores, M. 2001. *Comparative investigations of TL and OSL in KCl:Eu²⁺ crystals irradiated with UV and X-rays*. Radiation Effects & Defects in Solids, 154, 319-324 p.
- Pedroza-Montero, M., Meléndrez, R., Chernov, V., Barboza-Flores, M., Castañeda, B. 2002. *Study of the phototransferred thermoluminescence in KCl:Eu²⁺ phosphors*. Radiation Protection Dosimetry. 100(1-4), 183-185 p.

- Pedroza-Montero, M., Castañeda, B., Meléndrez, R., Barboza-Flores, M. 2004. *Procesos de formación de defectos en halogenuros alcalinos contaminados con Eu^{2+} inducidos por radiación no ionizante*. Proceedings VII Conferencia Internacional XVII Congreso Nacional sobre Dosimetría de Estado Sólido 153-160 p.
- Pérez-Salas R; Meléndrez R; Aceves R; Rodríguez R; Barboza-Flores M. 1996. *Room-temperature effects of UV radiation in $\text{KBr}:\text{Eu}^{2+}$ crystals*. J. Phys.: Condens. Matter, 8(27), 4983-4992 p.
- Purdy, A.E., Murray, R. B. 1975 *Studies of intrinsic luminescence in KCl*. Solid State Communications, 16, 1293-1296 p.
- Rascón, A., Alvarez Rivas, J.L. 1978. *Thermoluminescence and colour centre thermal stability in $\text{KCl}:\text{Ca}$ and $\text{KCl}:\text{Sr}$ irradiated at room temperature*. J. Phys. C.: Solid State Phys., 11, 1239-1251 p.
- Rodríguez E., Tocho J. O., Cussó F. 1993. *Simultaneous multiple-wavelength photoacoustic and luminescence experiments: A method for a fluorescent-quantum-efficiency determination*. Phys. Rev. B. 47, 14049 p.
- Rodríguez-Mijangos R., Barboza-Flores M., Clark-Bayón, A., Ruíz Mejía C. 1984. *Highly excited states of F center*. Rev. Mex. Fis. 30, 629 p.
- Rubio, J. 1991. *Doubly-valent rare earth ions in halide crystals*. J. Phys. Chem. Solids, 52(1), 101-174 p.
- Rubio, J., Aguilar, M.G., López, F.J., Galan, M., García-Solé, J., Murrieta, H.S. 1982. *Effects of x-irradiation in europium-doped NaCl*. J. Phys. C: Solid State Phys., 15 6113-6128 p.

- Smoluchowski, R. Lazareth, O.W., Harcher, R.D., Dienes, G.J. 1971. *Mechanism of Point-Defect Formation in Ionic Crystals*. Phys. Rev. Letters 27(19), 1288-1290 p.
- Song, K.S., Williams, R.T. 1993. Self-Trapped excitons, ed. M. Caredona, Springer Berlin.
- Sonoda, M., Takano, M., Miyahara, J., Kato, H. 1993. *Computed radiography utilizing scanning laser stimulated luminescence*. Radiology, 148, 833-838 p.
- Tromson, D., Bergonzo, P., Brambilla, A., Mer, C., Foulon, F., Amosov, V.N. 1999. *Thermally Stimulated Investigations on Diamond Based Radiation Detectors*. Physica Status Solidi(a), 175(1), 155-164 p.
- Werner, M., Locher, R., 1998. Growth and application of undoped and doped diamond films, Reports on Progress in Physics, 61(12), 1665-1710 p.
- Yang, B. Luff, B.J. Townsend P.D. 1993a. *Comparison between thermoluminescence and cathodoluminescence spectra of KBr and KCl*. Physical Review B, 48(22); 16256-16260 p.
- Yang, B., Townsend, P.D. 1993b. *Intrinsic emissions in the catholuminescence spectra of KBr and KCl crystals*. Physica Status Solidi(b) 178; 533-541 p.