

DRA. MA. DE LA LUZ OLVERA AMADOR

PUBLICACIONES 2012

ARTÍCULOS PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL, CON ARBITRAJE ESTRICTO

Ramireddy T. R., Venugopal V., Bellam J. B., Maldonado A., Vega-Perez J., Velumani S., Olvera, M. D. Effect of the Milling Time of the Precursors on the Physical Properties of Sprayed Aluminum-Doped Zinc Oxide (ZnO:Al) Thin Films. *Materials (ISSN 1996-1944)*. (5) 8 (2012) 1404-1412.

L. Castañeda, A. Maldonado, J. Rodríguez-Baez, J. C. Cheang-Wong, M. López Fuentes, M. de la L. Olvera. Chemically spray pyrolysis deposited fluorine-doped zinc oxide thin films: Effect of acetic acid content in the starting solution on the physical properties. *Materials Science in Semiconductor Processing (ISSN 1369-8001)*. 15 (2012) 232-239.

F. de Moure-Flores, J. G. Quiñones-Galván, A. Hernández-Hernández, A. Guillén-Cervantes, M. A. Santana-Aranda, M. de la L. Olvera, M. Meléndez-Lira. Structural, optical and electrical properties of Cd-doped SnO₂ thin films grown by RF reactive magnetron co-sputtering. *Applied Surface Science (ISSN 0169-4332)*. 258 (2012) 2459- 2463. ISSN: 0169-4332. ISSN: 1369-8001.

Rajesh Biswal, Luis Castañeda, Rosario Moctezuma, Jaime Vega-Pérez , María De La Luz Olvera, Arturo Maldonado. Formation of Indium-Doped Zinc Oxide Thin Films Using Ultrasonic Spray Pyrolysis: The Importance of the Water Content in the Aerosol Solution and the Substrate Temperature for Enhancing Electrical Transport. *Materials (ISSN 1996-1944)*. 5 (2012) 432-442.

F. de Moure-Flores, J. G. Quiñones-Galván, A. Guillén-Cervantes, J. S. Arias-Cerón, G. Contreras-Puente, A. Hernández-Hernández, J. Santoyo-Salazar, M. de la L. Olvera, M. A. Santana-Aranda, M. Zapata-Torres, J. G. Mendoza-Álvarez, and M. Meléndez-Lira. Physical properties of CdTe:Cu films grown at low temperature by pulsed laser deposition. *Journal of Applied Physics (ISSN 0021-8979)*. 112 (2012) 113110-1,5.

L. Castañeda, A. Maldonado, J. Rodríguez-Baez, J. C. Cheang-Wong, M. López-Fuentes, M. de la L. Olvera. Chemical spray pyrolysis deposited fluorine-doped zinc oxide thin films: Effect of acetic acid content in the starting solution on the physical properties. *Materials Science in Semiconductor Processing (ISSN 1369-8001)*. 15 (2012) 232–239.

ARTÍCULOS PUBLICADOS EN EXTENSO EN MEMORIAS DE CONGRESOS INTERNACIONALES, CON ARBITRAJE

9th International Conference on Electrical Engineering, Computing Science and Automatic Control, Ciudad de México, Distrito Federal. 26 al 28 de Septiembre del 2012

Heberto Gómez, Jose L. Gonzalez, Gonzalo A. Torres, M. De La L. Olvera and Arturo Maldonado. Doping Effect on the Physical Properties of Zinc Oxide Thin Films. *Conference CCE 2012*. Mexico City, Mexico. ISBN: 978-1-4673-2168-6.

Rajesh Roshan Biswal, Arturo Maldonado and M. de La L. Olvera. Effect of Doping Concentration and Substrate Temperature on the Physical Properties of Indium-doped Zinc Oxide Thin Films. *Conference CCE 2012*. Mexico City, Mexico. ISBN: 978-1-4673-2168-6.

Venkata Krishna Karthik Tangirala, M. de la L. Olvera, and Arturo Maldonado Alvarez. Synthesis of Tin Oxide Powders by Homogeneous Precipitation. Structural and Morphological Characterization. *Conference CCE 2012*. Mexico City, Mexico. ISBN: 978-1-4673-2168-6.

RESÚMENES DE PARTICIPACIÓN EN CONGRESOS NACIONALES E INTERNACIONALES

XXI International Materials Research Congress, Cancún, Quintana Roo. 12 al 17 de Agosto de 2012

Venkata Krishna Karthik Tangirala, M. de la L. Olvera. Synthesis of undoped and Pt-doped tin oxide thin films deposited by chemical spray and their application in propane and CO sensors.

Venkata Krishna Karthik Tangirala, M. de la L. Olvera. Tin oxide pellets for gas sensing applications.

Venkata Krishna Karthik Tangirala, M. de la L. Olvera. Synthesis and structural characteriation of tin oxide powders.

Heberto Gomez, Moisés G., Jose Luis Gonzalez, Gonzalo A. Torres, Arturo Maldonado, M. de la L. Olvera. Effective surface effect on sensing properties of SnO₂ thin solid films in a propane atmosphere.

Heberto Gomez, Jose Luis Gonzalez, Gonzalo A. Torres, Arturo Maldonado, M. de la L. Olvera. A comparative study on gas sensing properties of ZnO:Ru and ZnO:Cr films in propane atmosphere.

Heberto Gomez, Jose Luis Gonzalez, Gonzalo A. Torres, Arturo Maldonado, M. de la L. Olvera. Highly sensitive thin film C₃H₈ gas sensor based on cupper doped ZnO.

V International Conference on Surfaces, Materials and Vacuum, Tuxtla Gutiérrez, México. 24 al 28 de Septiembre de 2012

K. T. Venkata-Krishna, M. de La L. Olvera. Effect of calcination temperature and precipitation agent on the structural and morphological properties of homogenously precipitated tin oxide powders.

K. T. Venkata-Krishna, M. de La L. Olvera. Sensing properties of tin oxide thin films deposited by chemical spray.

F. de Moure-Flores, J. Q. Quiñones-Galván, A. Guillén-Cervant, A. Hernández-Hernández, L. A. Hernández-Hernández, M. de la L. Olvera, M. Zapata-Torres, M. Meléndez-Lira. CdTe:Cu films grown by pulsed laser deposition effect of substrate temperature.

F. de Moure-Flores, A. Guillén-Cervantes, J. G. Quiñones-Galván, A. Hernández-Hernández, L. A. Hernández-Hernández, G. Contreras-Puente, M. de la L. Olvera, M. Meléndez-Lira. Effect of the annealing on physical properties of CdS and CdS:F thin films grown by chemical bath deposition.

F. de Moure-Flores, J. G. Quiñones-Galván, A. Hernández-Hernández, A. Guillén-Cervantes, L. A. Hernández-Hernández, G. Contreras-Puente, M. de la L. Olvera, M. A. Santana-Aranda, M. Meléndez-Lira. Growth and characterization of SnO₂:Cd thin films.

R. Roshan-Biswal*, A. Maldonado-Álvarez, M. de la L. Olvera. Comparison of the doping effect of indium acetate and indium sulphate on the optical and electrical properties of indium-doped zinc oxide thin films deposited by ultrasonic spray pyrolysis.

R. Roshan-Biswal, A. Maldonado-Álvarez, M. de la L. Olvera, A. Celis-García. Dopant-induced modifications on the physical properties of nanocrystalline ZnO:In thin films deposited by ultrasonic spray pyrolysis.

J. Morales, A. Maldonado, M. de la L. Olvera. Gas sensing and photocatalyst properties of TiO₂ thin films processed by the Sol-Gel technique.

R. Herrera, A. Maldonado, M. de la L. Olvera. Sensing properties of ZnO:Ru and ZnO:Cr thin films deposited by the Sol-Gel technique.

4th Internatioal Symposium on Transparent Conductive Materials. Creta, Grecia. 21 al 26 de Octubre del 2012

M. de la L. Olvera, R. R. Biswal, A. Maldonado. Characteristics of ZnO:In thin films deposited by ultrasonic spray pyrolysis technique. Effect of water content in the starting solution.

M. de la L. Olvera, A. Maldonado. Characterization of SnO₂:F thin films deposited by ultrasonic spray pyrolysis.

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PUBLICACIONES 2013

ARTÍCULOS PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL, CON ARBITRAJE ESTRICTO

F. de Moure-Flores, K.E. Nieto-Zepeda, A.Guillen-Cervantes, S.Gallardo, J.G.Quinones-Galvan, A. Hernandez-Hernandez, M.de la L.Olvera, M.Zapata-Torres, Yu Kundriavtsev, M.Melendez-Lira. Effect of the immersion in CdCl₂ and annealing on physical properties of CdS:F films grown by CBD. *Journal of Physics and Chemistry of Solids.* 74 (2013) 611–615. .

L. Castañeda, M. Avendaño-Alejo, H. Gómez, M. de la L. Olvera, and A. Maldonado. Physical Characterization of Ruthenium-Doped Zinc Oxide Thin Solid Films Deposited by the Sol–Gel Technique: Gas-Sensing Performance in a Propane Atmosphere. **SENSOR LETTERS.** 11 (2013) 286–293. .

Heberto Gómez-Pozos, José Luis González-Vidal, Gonzalo Alberto Torres, Jorge Rodríguez-Baez, Arturo Maldonado, María de la Luz Olvera, Dwight Roberto Acosta, Maximino Avendaño-Alejo, Luis Castañeda. Chromium and Ruthenium-Doped Zinc Oxide Thin Films for Propane Sensing Applications. *Sensors.* 13 (2013) 3432-3444. .

F. de Moure-Flores, J.G.Quiñones-Galvan, A.Guillén-Cervantes, J.Santoyo-Salazar, A. Hernández-Hernández, G.Contreras-Puente, M. de la L. Olvera, M. Meléndez-Lira. Hexagonal CdTe films with Te excess grown at room temperature by laser ablation. *Material Lettters.* 92(2013) 94-95. ISSN 0167-577X. .

F. de Moure-Flores, J. G. Quiñones-Galván, A. Guillén-Cervantes, A. Hernández-Hernández, M. de la L. Olvera, J. Santoyo-Salazar, M. Zapata-Torres, G. Contreras-Puente, M. Meléndez-Lira. Copper Telluride Thin Films grown by pulsed laser deposition. *Surface Surface and Coatings Technology.* 217 (2013) 181-183. ISSN 0257-8972.

F. de Moure-Flores, K.E.Nieto-Zepeda a, A.Guillén-Cervantes, S.Gallardo, J.G.Quiñones-Galván, A. Hernández-Hernández, M.de la L.Olvera, M. Zapata-Torres, Yu Kundriavtsev, M.Meléndez-Lira. Effect of the immersion in CdCl₂ and annealing on physical properties of CdS:F films grown by CBD. *Journal of Physics and Chemistry of Solids.* 74 (2013) 611-615. ISSN: 0022-3697. .

L. Castañeda, H. Gómez, M. Avendaño-Alejo, M. de la L. Olvera, A. Maldonado. Physical characterization of ruthenium-doped zinc oxide thin solid films deposited by the sol-gel technique: gas-sensing performance in a propane atmosphere. *Sensor Letters.* 11 (2013) 286-293. ISSN: 1546-198X. .

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F. de Moure-Flores, J. G. Quiñones-Galván, A. Guillén-Cervantes, J.S. Arias-Cerón, A. Hernández-Hernández, J. Santoyo-Salazar, J. Santos-Cruz, S.A. Mayén-Hernández, M. de la L. Olvera, J.C. Mendoza-Álvarez, M. Meléndez-Lira, G. Contreras-Puente. CdTe thin films grown by pulsed laser deposition using powder as target: Effect of substrate temperature. *Journal of Crystal Growth*. 386 (2014) 27-31. ISSN:00220248. .

ARTÍCULOS PUBLICADOS EN EXTENSO EN MEMORIAS DE CONGRESOS INTERNACIONALES, CON ARBITRAJE

10TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING, COMPUTING SCIENCE AND AUTOMATIC CONTROL (CCE), MEXICO CITY, MEXICO, 2-4 OCTOBER, 2013

Jacob Morales Bautista, M. de La L. Olvera and Arturo Maldonado. Synthesis and characterization of nanostructured TiO₂ Anatase-phase powders obtained by the precipitation Homogeneous Method. ISBN: 978-1-4673-2168-6. .

María del Rosario Herrera Rivera, Arturo Maldonado and M. de La L. Olvera. Morphological and Structural properties of ZnO Powders. ISBN: 978-1-4673-2168-6. .

Venkata Krishna Karthik Tangirala, M. de la L. Olvera, and Arturo Maldonado Alvarez. Manufacturing of Tin Oxide Pellets and their applications for CO and C₃H₈ Gas Sensor. ISBN: 978-1-4673-2168-6. .

Rajesh Roshan Biswal, Arturo Maldonado and M. de La L. Olvera. Electrical and Optical Properties of In-doped ZnO Thin Films via Ultrasonic Spray Pyrolysis. ISBN: 978-1-4673-2168-6. .

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XXII INTERNATIONAL MATERIALS RESEARCH CONGRESS, AUGUST, 11 – 15, CANCÚN, MÉXICO 2013

M. del R. Herrera Rivera, M. de la L. Olvera, A. Maldonado . Synthesis of ZnO powders by homogeneous precipitation. .

M. de la L. Olvera, A. Maldonado. Undoped ZnO thin films deposited by ultrasonic spray technique, effect of the water content in the starting solution. .

XXII INTERNATIONAL MATERIALS RESEARCH CONGRESS, AUGUST, 11 – 15, CANCÚN, MÉXICO 2013

M. de la L. Olvera, Arturo Maldonado Álvarez. Effect of water content in starting solution on the characteristics of ultrasonic deposited ZnO:In thin films. .

Jacob Morales, M. de la L. Olvera, Arturo Maldonado Álvarez. Sensing properties of nanoparticles of TiO₂. .

Jacob Morales, M. de la L. Olvera, Arturo Maldonado Álvarez. Synthesis and characterization of nanoparticles of TiO₂. .

María del Rosario Herrera Rivera, M. de la L. Olvera, Arturo Maldonado Álvarez. Preparation and characterization of ZnO Pellets. Sensing properties. .

III INTERNATIONAL CONFERENCE ON MATERIALS AND APPLICATIONS FOR SENSORS AND TRANSDUCERS, IC-MAST, SEPTEMBER 13-17, 2013.

M. de la L. Olvera, Arturo Maldonado Álvarez, and Jaime Aguilar Leyva. Gas-Sensing characteristics of Pd/SnO₂ thin films in a propane atmosphere. .

M. de la L. Olvera, Arturo Maldonado Álvarez. Sensing properties of ZnO thin Films, Catalytic effect of Cr and Ru. .

EUROPEAN MATERIALS RESEARCH SOCIETY (EMRS) 2103-FALL MEETING. VARSOVIA, POLONIA, SEPTEMBER 16-20, 2013.

M. de la L. Olvera, Arturo Maldonado. Undoped ZnO thin Films deposited by the ultrasonic spray technique. .

M. de la L. Olvera, Arturo Maldonado. Effect of water and acetic acid content on the physical properties of chemically sprayed ZnO:In thin Films. .

DRA. MA. DE LA LUZ OLVERA AMADOR

PUBLICACIONES 2014

ARTÍCULOS PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL, CON ARBITRAJE ESTRICTO

Rajesh Biswal, Arturo Maldonado, Jaime Vega-Pérez, Dwight Roberto Acosta, María De La Luz Olvera. Indium Doped Zinc Oxide Thin Films Deposited by Ultrasonic Chemical Spray Technique, Starting from Zinc Acetylacetonate and Indium Chloride. *Materials*. 7 (2014) 5038-5046.

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Lorenzo Gildo Ortiz, Héctor Guillén Bonilla, Jaime Santoyo Salazar, M. de la L. Olvera, T.V.K. Karthik, Enrique Campos González, and Juan Reyes Gómez. Low-Temperature Synthesis and Gas Sensitivity of Perovskite-Type LaCoO₃ Nanoparticles. *Journal of Nanomaterials*. (2014). **ISSN:** 1687-4110 (Print), **ISSN:** 1687-4129 (Online), doi:10.1155/9182. .

L. Castañeda, A. Maldonado, J. Vega Pérez, M. de la L. Olvera, C. Torres-Torres. Electrical and optical properties of nanostructured indium doped zinc oxide thin films deposited by ultrasonic chemical spray technique, starting from zinc acetylacetonate and indium chloride. *Materials Science in Semiconductor Processing*. 26 (2014) 288-293. .

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11TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING, COMPUTING SCIENCE AND AUTOMATIC CONTROL (CCE), CIUDAD DEL CARMEN, CAMPECHE, MÉXICO, 1-3 OCTOBER, 2014

María del Rosario Herrera Rivera, M. de la L. Olvera, Arturo Maldonado Álvarez. Manufacture of Ag, Cr and Cu-doped ZnO Pellets for Gas Sensor Applications. **ISBN:** 978-1-4799-6230-3. .

Ana María Pineda Reyes, María del Rosario Herrera Rivera, M. de la L. Olvera. Synthesis and characterization of ZnO powders by homogeneous precipitation from different zinc precursors. **ISBN:** 978-1-4673-2168-6. .

R. R. Biswal, A. Maldonado, M. de la L. Olvera. Optoelectronic properties of ZnO:In thin films by ultrasonic spray pyrolysis. **ISBN:** 978-1-4673-2168-6. .

J. Vinoth Kumar, A. Maldonado, Y. Matsumoto, M. de la L. Olvera. Effect of rf power on Structural, Optical and Morphological Properties of Ultrathin Undoped ZnO films deposited by rf Magnetron Sputtering. ISBN: 978-1-4673-2168-6. .

T. V. K. Karthik, M. de la L. Olvera, Dr. A. Maldonado. Surface modified tin oxide pellets for CO Gas sensing. ISBN: 978-1-4673-2168-6. .

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XXIII INTERNATIONAL MATERIAL RESEARCH CONGRESS, CANCUN, MEXICO, 17 – 21 AUGUST, 2014

M. de la L. Olvera, A. Maldonado. ZnO:In thin films deposited by ultrasonic pyrolysis ultrasonic deposited. Effect of In precursor type. .

Vinoth, M. de la L. Olvera, Arturo Maldonado Álvarez. Structural and morphological properties of ZnO thin films deposited by RF sputtering. .

Vinoth, M. de la L. Olvera, Arturo Maldonado Álvarez. Deposition of undoped ZnO thin films: effect of film thickness on the optical properties. .

María del Rosario Herrera Rivera, Olvera, M. de la L. Olvera, and Maldonado, Arturo. Ag, Co and Cu doped ZnO pellets. Sensing properties. .

María del Rosario Herrera Rivera, M. de la L. Olvera, A. Maldonado, Ana María Pineda Reyes. Effect of precipitant agent on the synthesis of ZnO powders by homogeneous precipitation method. .

M. de la L. Olvera, Arturo Maldonado Álvarez. Deposition of undoped ZnO thin films by USP using zinc acetyl acetate: effect of water content on the physical, gas and sensing properties. .

M. de la L. Olvera, A. Maldonado Álvarez. Physical characteristics of undoped ZnO thin films deposited by USP. .

Karthik, M. de la L. Olvera, Arturo Maldonado Álvarez. Effect of alumina content on the sensitivity of tin oxide (SnO₂) pellets. .

Karthik, M. de la L. Olvera, A. Maldonado. Gas sensors based on copper doped tin oxide (SnO₂) powders. .

Ana María Pineda Reyes, M. del Rosario Herrera Rivera, M. de la L. Olvera. Study of homogeneous precipitation of zinc oxide. .

Ana María Pineda Reyes, M. de la L. Olvera. Effect of the zinc precursors on yield synthesis of ZnO Powders. .

L. Gildo Ortiz, H. Guillén Bonilla, M. de la L. Olvera, T. V. K. Karthik, J. Santoyo Salazar, M. J. Alcántar Peña, and J. Reyes Gómez. Preparation of perovskite-type LaFeO₃ nanoparticles for carbon monoxide and propane sensing applications. .

L. Gildo Ortiz, H. Guillén Bonilla, A. Guillén Bonilla, M. de la L. Olvera, T. V. K. Karthik, J. Santoyo Salazar, J. R. Castañeda Sánchez, and J. Reyes Gómez. An alternative gas sensor based on MgSb₂O₆ nanorods for monitoring carbon monoxide and propane concentrations. .

Rajesh Roshan Biswal, Arturo Maldonado, Maria de la Luz Olvera Amador. Surface Morphologies of Zinc Oxide thin films from different Indium Salt Precursors. .

SEMINATEC 2014, IX WORKSHOP ON SEMICONDUCTORS AND MICRO & NANO

15TH INTERNATIONAL MEETING ON CHEMICAL SENSORS, IMCS, BUENOS AIRES, ARGENTINA, MARZO 16-19, 2014.

M. de la L. Olvera, T. V. K. Karthik, A. Maldonado. Fabrication of Tin Oxide Pellets for sensing CO and C₃H₈ . .

III INTERNATIONAL CONFERENCE ON MATERIALS AND APPLICATIONS FOR SENSORS AND TRANSDUCERS, IC-MAST, BILBAO, ESPAÑA, JUNIO 8-11, 2014.

M. de la L. Olvera, T. V. K. Karthik, A. Maldonado. Propane sensors based on Tin Oxide nanopowders. .

8TH INTERNATIONAL WORKSHOP ON ZINC OXIDE AND RELATED MATERIALS, NIAGARA FALLS, ONTARIO, CANADA, SEPTEMBER 7- 11, 2014

Vinoth Kumar Jayaraman, M. de la L. Olvera, A. Maldonado. Deposition of Ultra Thin ZnO Films by RF Sputtering : Effect of RF Power on the Physical Properties. .

FIFTH INTERNATIONAL SYMPOSIUM ON TRANSPARENT CONDUCTIVE MATERIALS, CRETE, GREECE, OCTUBRE 12-17, 2014

M. de la L. Olvera, R. Herrera, and A. Maldonado. Preparation and sensing characteristics of ZnO pellets. .

M. de la L. Olvera, J. Morales, A. Maldonado. Sensing characteristics of TiO₂ ceramic powders. .