

**General Program**  
**6th Mexican Workshop on Nanostructured Materials (2016)**

Time	Wednesday, October 12	Thursday, October 13	Friday, October 14	Time			
8:00 - 8:30	Registration	Registration	Registration	8:00 - 8:30			
8:30 - 9:00				Opening Ceremony	Course 1B	Course 2B	8:30 - 9:00
9:00 - 9:40				Invited (1)	Invited (5)	Invited (9)	9:00 - 9:40
9:40 - 10:00				Contributed (1,2)			9:40 - 10:00
10:00 - 10:20				Coffee break	Coffee break	Coffee break	10:00 - 10:20
10:20 - 10:35				Invited (2)	Invited (6)	Invited (10)	10:20 - 10:35
10:35 - 11:15				Contributed (3,4)	Contributed (5,6)	Contributed (7,8)	10:35 - 11:15
11:15 - 11:35				Coffee break	Coffee break	Coffee break	11:15 - 11:35
11:35 - 11:55				Invited (3,4)	Invited (7,8)	JEOL Presentation	11:35 - 11:55
11:55 - 12:10						Contributed (9)	11:55 - 12:10
12:10 - 12:50				Lunch break	Lunch break	Invited (11,12)	12:10 - 12:50
12:50 - 13:10							12:50 - 13:10
13:10 - 13:30							13:10 - 13:30
13:30 - 14:00				Course 1A	Course 2A	Closing Ceremony	13:30 - 14:00
14:30 - 15:00	14:30 - 15:00						
15:00 - 15:30	15:00 - 15:30						
15:30 - 16:00	15:30 - 16:00						
16:00 - 16:30	16:00 - 16:30						
16:30 - 17:00	16:30 - 17:00						
17:00 - 17:30	17:00 - 17:30						
17:30 - 18:00	17:30 - 18:00						
18:00 - 18:30	18:00 - 18:30						
20:00 - 23:00		Dinner/welcome reception					20:00 - 23:00

### Invited talks (IT)

<b>1</b>	<b>Eduardo A. Coronado</b> Plasmonic analytical tools for sensing and targeting biomolecules	Universidad Nacional de Córdoba, Argentina.
<b>2</b>	<b>Ovidio Peña Rodríguez</b> Controlling the assembly and welding of gold nanorods by means of femtosecond laser pulses	Universidad Politécnica de Madrid, Spain.
<b>3</b>	<b>Vivechana Agarwal</b> Sensing applications of porous silicon-metal oxide hybrid structures	CIICAp, UAEM, México.
<b>4</b>	<b>Cecilia Noguez</b> Designing the plasmonic modes in nanoparticles and radiative heat transfer	IFUNAM, México.
<b>5</b>	<b>Juan Salvador Lezama-Pacheco</b> Local atomistic structural changes detected through X-ray Absorption Fine Structure (XAFS) spectroscopy in Nanostructured Materials	Stanford University, California, USA.
<b>6</b>	<b>Gerko Oskam</b> Nanomaterials for solar energy conversion systems	CINVESTAV-Mérida, México.
<b>7</b>	<b>Marcelino Barboza Flores</b> Thermally and optically stimulated luminescence in strontium aluminates long persistent phosphors	CIFUS, UNISON, México.
<b>8</b>	<b>Manuel Herrera Zaldivar</b> Cathodoluminescence of nanomaterials	CNYN, UNAM, México.
<b>9</b>	<b>Margarita Sánchez Domínguez</b> Bicontinuous microemulsions as templates for the synthesis of Hierarchical Pt nanostructures and their electrochemical characterization	CIMAV, México.
<b>10</b>	<b>David Díaz</b> Ag-Bi and Pd-Ag Nanoalloys. Experimental Approach	FQ, UNAM, México.
<b>11</b>	<b>Maria A. G. Soler</b> Synthesis, Morphology and Applications of Iron Oxide Nanocomposites	Nanofilms and Nano Devices Laboratory, Universidade de Brasília, Brazil.
<b>12</b>	<b>Rodolfo Zanella</b> Improved Activity and Stability in CO Oxidation of Bimetallic Au-Cu/TiO <sub>2</sub> Catalysts	CCADET, UNAM, México.

### Contributed talks (CT)

<b>1</b>	<b>A. L. González</b> Shape and size effects on the near-field optical properties of Au and Ag nanoparticles	IFUAP, México
<b>2</b>	<b>Siva Kumar-Krishnan</b> Functionalized gold-silica nanoparticles as a platform for enhanced direct electron transfer in enzymatic biosensor	CINVESTAV-Querétaro, México
<b>3</b>	<b>Rubén Jonatán Aranda García</b> Fabrication of a MIS structure based on two-dimensional ZnO nanostructures by chemical routes	FIQ-BUAP, México
<b>4</b>	<b>Nabanita Dasgupta-Schubert</b> Plant responses to nano and micro structured carbon	UMICH, México
<b>5</b>	<b>B. Paz-Díaz</b> Evaluación de la actividad bactericida de nanopartículas de CuO y ZnO obtenidas por mecano-síntesis en presencia de disolventes	CCADET-UNAM, México
<b>6</b>	<b>Sudip Mondal</b> Use of hydroxyapatite nanoparticles for developing bone tissue engineering scaffolds	BUAP, México
<b>7</b>	<b>G. Saavedra Rodríguez</b> Efecto de la Morfología y Dopaje en las Propiedades Ópticas y Magnéticas de Nanoestructuras de ZnO Sintetizadas Sonoquímicamente	UNISON, México
<b>8</b>	<b>M.A. Méndez-Rojas</b> Enhanced Heat Generation capacity of Bi-magnetic Nanoparticles for Hyperthermia Applications	UDLAP, México
<b>9</b>	<b>America R. Vazquez-Olmos</b> Mechanosynthesis of $MFe_2O_4$ (M=Co, Ni, Zn) magnetic nonoparticles for Pb removal from aqueous solution	CCADET-UNAM, México

### **Courses (COU)**

<b>1</b>	<b>Patricia Santiago Jacinto</b> Análisis de imágenes obtenidas por TEM de alta resolución	IF-UNAM, México
<b>2</b>	<b>Carmen Reza San Germán</b> Fabricación Electroquímica de nanoestructuras porosas	IPN, México

**Poster session 1 (P1)**  
**Wednesday, October 12, 2016**

<b>1</b>	<p>Síntesis y caracterización de nanomateriales de Grafeno-titania como fotocatalizadores en la degradación de azul de metileno asistida con luz Ultra Violeta</p> <p><i><u>L. Andrade Hernández</u>, E. Rubio Rosas (CUVyTT, Mexico)</i></p>
<b>2</b>	<p>Aproximación biotecnológica para la obtención de ZnO nanoestructurado mediante el extracto acuoso de Kalanchoe pumila</p> <p><i><u>R. Ángeles Sierra</u>, M.A. Flores-González, M.A. Hernández-Pérez, P.N. Olvera-Venegas, M. Villanueva-Ibáñez (UPP-Mexico, ESIQIE-Mexico).</i></p>
<b>3</b>	<p>Magnetic behavior of SiO<sub>2</sub> opals with embedded Fe</p> <p><i><u>C. Avila-Crisóstomo</u>, E. Sánchez-Mora, V. García-Vázquez, F. Pérez-Rodríguez (IFUAP-Mexico)</i></p>
<b>4</b>	<p>Síntesis verde de nanopartículas de ZnO/Ag usando el extracto acuoso de Jatropha dioica</p> <p><i><u>V.P. Camargo-Pérez</u>, M.A. Flores-González, M.A. Hernández-Pérez, P.N. Olvera-Venegas, M. Villanueva-Ibáñez (UPP-Mexico, ESIQIE-Mexico).</i></p>
<b>5</b>	<p>Síntesis y caracterización de sílice mesoporosa funcionalizada con grupo tiol y su aplicación en la adsorción de iones cromo</p> <p><i><u>F.J. Chimal Moreno</u>, R.D. Hernández Perez, D.G. Mitre Martinez, J. Varela Caselis, E. Rubio Rosas (FIQ-BUAP-Mexico, CUVyTT-Mexico).</i></p>
<b>6</b>	<p>Isoelectronic effect of Cu<sup>1+</sup> and Ga<sup>3+</sup> on Zn<sup>2+</sup> in diesel particulate matter oxidation</p> <p><i>G. Corro, <u>S. Cebada</u>, F. Bañuelos, U.Pal, A. Flores, J.L.G. Fierro (IFUAP-Mexico, ICP-Spain).</i></p>
<b>7</b>	<p>Biosíntesis de nanopartículas metálicas mediante el extracto de café verde para su evaluación bactericida</p> <p><i><u>J. F. Cruz-Hernández</u>, B. E. Jaramillo-Loranca, M.A. Flores-González, M. Villanueva-Ibáñez (UPP-Mexico).</i></p>
<b>8</b>	<p>Au-Fe<sub>3</sub>O<sub>4</sub> core-shell nanoparticles orchestrated carbon dots as nanoflotillas for bioimaging and drug delivery</p> <p><i><u>Goldie Oza</u>, M. Ravichandran, S. Velumani and Jose Tapia (CINVESTAV-IPN, Mexico)</i></p>
<b>9</b>	<p>Catalizadores heterogéneos de óxidos metálicos nanoestructurados en la síntesis de biodiesel por transesterificación de triacilglicéridos</p> <p><i><u>K. M. Talavera Sánchez</u>, <u>M. Estrada Flores</u>, C. M. Reza San Germán, M. E. Manríquez Ramírez (ESIQIE-Mexico, IIM-Mexico).</i></p>

10	<p>Calcium containing photocatalysts: an alternative in water treatment  <u>A. B. Galindo-Rodríguez, M. Sánchez-Cantú, M. L. Ruiz Peralta, E. Puente-López, F. Tzompantzi</u> (FIQ-BUAP-Mexico, UAM-Mexico).</p>
11	<p>Nanostructured porous silicon microparticles for controlled delivery of theophylline  <u>G. García, J.J. Barrios, A. Guerra, G. Palestino</u> (UASLP-Mexico).</p>
12	<p>Mexican Natural Zeolite Applied to CO<sub>2</sub> Adsorption  <u>R. García Franco, M.A. Hernández, V. Petranovskii</u> (FIQ-BUAP-Mexico, ICUAP-Mexico, CNyN-Mexico).</p>
13	<p>Surface modification of glass ceramic TiO<sub>2</sub> sol-gel nanoparticles with amino groups and PABA functionalization  <u>M. L. Carrera Jota, M. García Hernández, E. Rivera Becerril, Á. de J. Morales Ramírez, J. A. Melo Banda, L. Aguilera Vázquez</u> (UAM-Mexico, ITCM-Mexico, CIITEC-Mexico).</p>
14	<p>Efecto del pH en la biosíntesis de nanopartículas de oro a partir del extracto de <i>Jatropha dioica</i>  <u>D. L. García-Rubio, R. Álvarez-García, M. A. Flores-González, G. Vargas-Hernández, M.A. Hernández-Pérez, B.E. Jaramillo Loranca, O. Tillement, M. Villanueva-Ibáñez</u> (UPP-Mexico, Univ. Lyon - France).</p>
15	<p>Synthesis, characterization and evaluation of adducts of C<sub>60</sub> as inhibitors of amyloid-β peptide aggregation  <u>M. Martínez, J. A. Lerma, M. L. Mendoza, H. I. Beltran, P. Y. López, A. Rojas, G. Basurto</u> (UAM-Mexico, UGTO-Mexico, CINVESTAV-Mexico).</p>
16	<p>Controlled in-situ synthesis of nanosilver on cotton fibers toward highly hydrophobic textiles  <u>L. Macuil Cuautle, Z. Morales Vásquez, J. U. Tlaminci Marquez, J. A. Juárez Torres, N. Ortega Hernandez, J. Águila-López, M. P. Gonzales Araoz, J. F. Sánchez-Ramírez</u> (FI-BUAP-Mexico, CIBA-Mexico).</p>
17	<p>Síntesis y caracterización de las propiedades fotoluminiscentes del ZnO:Eu<sup>3+</sup> obtenido por un método biológico  <u>E. Marcelino-Pérez, M.A. Flores-González, M. Villanueva-Ibáñez</u> (UPP-Mexico).</p>
18	<p>Effect of sputtering temperature on the growth kinetics and CO<sub>2</sub> sensing properties of ZnO deposited over porous silicon  <u>L. Martínez, J.T. Holguín-Momaca, T. V. K. Karthik, S.F. Olive-Méndez, J. Campos-Alvarez, V. Agarwal</u> (CIICAp-UAEM-Mexico, CIMAV-Mexico, IER-Mexico).</p>

19	Promoting effect of Nb on NiMo/MCM-41 nanostructured catalysts for dibenzothiophene hydrodesulfurization <i>Franklin J. Méndez, Oscar E. Franco-López, Tatiana E. Klimova</i> (FQ-UNAM).
20	Visible light photocatalytic activity of gold loaded hydroxyapatite nanoparticles <i>Sudip Mondal, María Eunice De Anda Reyes, Umapada Pal</i> (IFUAP-Mexico).
21	Recuperación de nanopartículas de hierro mediante extractos de plantas a partir de un lixiviado de origen vegetal <i>R. Córdova-Rivera, P. Olvera-Venegas, M. Villanueva-Ibáñez, M. Flores-González</i> (UPP-Mexico).
22	Structural and Optical Characterization of ZnO:Eu nanoparticles for applications in photocatalysis <i>M.A. Hernández-Carrillo, G. Pérez-Hernández, E. Ramírez-Morales, L. Rojas-Blanco, C. Ricardez-Jiménez, M. González-Solano, J.G. Álvarez-Ramírez, L.L. Díaz-Flores</i> (UJAT-Mexico).
23	Preparation of Poly (vinyl alcohol) fibers containing silver nanoparticles by electrospinning and evaluation of their antibacterial activity <i>S. Pichón Posada, J. M. Pérez Porras, R. Agustín Serrano, E. Reyes Cervantes, G. Landeta Cortés, E. Rubio Rosas</i> (FIQ-BUAP-Mexico, CUVyTT-Mexico).
24	1D nanostructures of CuO and ZnO as adsorbents for biogas desulfurization <i>F. Pola-Albores, K. Zambrano-Solís, E. Ríos-Valdovinos</i> (ICBA-Mexico).
25	Evaluation of calcium oxide in the photodegradation of Rhodamine 6G using ultraviolet light <i>E. Puente López, A. Galindo Rodríguez, María De Lourdes Ruíz Peralta, M. Sánchez Cantú</i> (FIQ-BUAP-Mexico).
26	Green synthesis of silver nanoparticles from MGYF fungal culture medium and its constituents <i>D. Roa-Velazquez, M. A. Flores-González, R. Álvarez-García, X. Tovar-Jiménez, M. A. Hernández-Pérez, M. Villanueva-Ibáñez</i> (UPP-Mexico, ESQIE-Mexico).
27	Silver 1D nanostructures and its adsorption on cotton fabric <i>A. Rodríguez Juárez, A. Netzahual Lopantzi, E. Sánchez Mora, F. Díaz Monge, P. Rodríguez Cuamatzi, R. Luna García, J. F. Sánchez Ramírez</i> (UPIITA-Mexico, CIBA-Mexico, IFUAP-Mexico, ITST-Mexico, UPT-Mexico, METAPOL-Mexico).

28	<p>Chemical and surface structure evolution of the as-milled powders of a ductile-ductile system: Effects of ethanol as a process control agent  <i>H. Rojas-Chávez, J.A. Andraca-Adame, N. Cayetano-Castro, J. Santoyo-Salazar</i> (CINVESTAV-Mexico, ITTLAHUAC2-Mexico, CNMN-Mexico)</p>
29	<p>Eu doped ZnO thin films by sol-gel method: Effect of doping concentration on photo catalytic activity  <i>M. Sánchez, Y. Kumar, N. R Mathews, X Mathew</i> (IER-Mexico).</p>
30	<p>Biocompatible magnetic nanoparticles as intranasal drug delivery carriers for the brain  <i>M F. Veloz-Castillo, J. Cordero-Arreola, S. Hidalgo-Tobón, O. Arias-Carrión, MA. Méndez-Rojas</i> (UDLAP-Mexico, HOSPITALGEA-Mexico, HIM/UAM-Mexico).</p>
31	<p>Characterization Method of the Microstructure Using the Compositional Gradient by Diffusion Couple  <i>C. D. Hernández-Jiménez, R. Borja-Urby, J. L. González-Velázquez, D. Rivas-Lopez, H. J. Dorantes Rosales, N. Cayetano Castro</i> (ESIQIE-México, CNMN).</p>
32	<p>Decomposition process in furnace cooled Zn-22%Al-2%Cu alloy with Ag additions  <i>O. Hernández-Nava, H. J. Dorantes-Rosales, A. A. Torres-Castillo, N. Cayetano-Castro, J. L. González-Velázquez, C. Ferreira-Palma, K. I. Morales-Bolaños</i> (ESIQIE-Mexico, UASLP-Mexico, CNMN-Mexico).</p>
33	<p>Design of Non-Stoichiometric Silicon Carbide Fullerene: Analysis of Structural and Electronic Properties  <i>F. G. Bernal Texca, E. Chigo Anota</i> (FIQ-BUAP-Mexico)</p>
34	<p>Biosíntesis de nanopartículas de plata a partir del filtrado libre de células de <i>Mucor fragilis</i>  <i>G. Marcelino-Pérez, Y. Mercado-Flores, M. A. Flores-González, M. A, Anducho-Reyes, X. Tovar-Jiménez, M. Villanueva-Ibáñez</i> (UPP-Mexico).</p>



**Poster session 2 (P2)**  
**Thursday, October 13, 2016**

<b>1</b>	<p>Heterojunctions bulk of organic semiconducting materials and carbon nanotubes to build ofets</p> <p><i>J. P. Aguliar-González, R. Gómez-Aguilar, G. Ortega-Cervantez</i> (ESFM, Mexico, UPIITA-Mexico).</p>
<b>2</b>	<p>Thermal vacuum evaporation ZnO films applied in quantum dot sensitizer solar cells</p> <p><i>Jose Alberto Alvarado, Z. Neale, H. Juarez, G. Escalante, Jun Luo, Guozhong Cao</i> (University of Washington-USA, Jingdezhen Ceramic Institute - China).</p>
<b>3</b>	<p>Characterization of carbon nanotubes oxidized to form composites</p> <p><i>N. Calzada Dorantes, P. Román Cuevas, R. Cruz Silva</i> (UAEM-Mexico, Shinshu University - Japan)</p>
<b>4</b>	<p>ZnS-ZnO thin films with Cu, Ga and Ag dopants prepared by ZnS oxidation in different ambient</p> <p><i>R. B. Cortés Herrera, T. Kryshab, J. A. Andraca Adame</i> (ENCB-Mexico, ESFM-Mexico, CNMN-Mexico).</p>
<b>5</b>	<p>Synthesis of Au/SiO<sub>2</sub> Core- Shell nanoparticles, SERS probe for glucose detection</p> <p><i>K. de Lázaro- Gasca, Ma. De L. Ruiz- Peralta, E. Rubio- Rosas</i> (FIQ-BUAP-Mexico, CUVyTT-Mexico).</p>
<b>6</b>	<p>Electronic properties of Ga and As doped silicon nanowires with surface dangling bonds</p> <p><i>F. De Santiago, A. Trejo, A. Miranda, M. Cruz-Irisson</i> (ESIME-Mexico).</p>
<b>7</b>	<p>Synthesis of cobalt nanostructures by electrochemical and thermal decomposition approaches</p> <p><i>M. Estrada Flores, C. Reza San Germán, M. E. Manríquez, L. Díaz Barriga Arceo</i> (ESIQIE-Mexico, IIM-Mexico).</p>
<b>8</b>	<p>PMMA nanofibers by electrospinning synthesis: morphology and optical properties</p> <p><i>A. Hernández-Mata, M. Estrada-Flores, M.E. Manriquez-Ramírez, H. Martínez Gutiérrez, J. V. Méndez-Méndez, C. M. Reza-San Germán</i> (ESIQIE-Mexico, IIM-Mexico).</p>
<b>9</b>	<p>Electroactive surface determination of a graphene/wireglue/silver electrode for microbial fuel cell</p> <p><i>A. Flores-Meza, P-J-Sebastian, M-Miranda-Hernández, L-Contreras-Romero</i> (IER-Mexico, UNISTMO-Mexico).</p>

10	A numerical modeling of the optical response of bacteria: size, shape and composition effects <i>M. J. Gálvez Vázquez, A. L. González</i> (IFUAP-Mexico).
11	Synthesis and optical properties of nanostructures of GaN, Ga <sub>1-x</sub> Al <sub>x</sub> N and Ga <sub>1-x</sub> In <sub>x</sub> N <i>Gómez - Peralta Juan I., Vázquez - Olmos América R., Fernández – Osorio Ana Leticia, Sato – Berrú Roberto Y.</i> (CCADET-Mexico, FESC-Mexico).
12	Surface Lithium effects on the structure and electronic states of porous silicon <i>L. González, A. Trejo, M. Cruz-Irisson</i> (ESIME-Mexico).
13	Modification of the mechanical properties of a polyester resin by incorporation of nanosized zinc oxide <i>R.N. Vázquez Chavarría, F. May Crespo, E.A. Franco Urquiza, P.G. González</i> (UTEQ-Mexico, CIDISI-Mexico).
14	Synthesis and characterization of Al <sub>x</sub> Zn <sub>1-x</sub> O <i>J. J. Reyes Valdes, C. Guarneros Aguilar, L. V. Ponce Cabrera, C. Estrada Moreno, M. Pacio Castillo, F. Caballero Briones</i> (CICATA-Mexico, CIDS-ICUAP-Mexico).
15	Synthesis and characterization of Ni <sub>1-x</sub> Cu <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite by Pechini type sol-gel method <i>Tomás Hernández, Luis Ernesto Padilla</i> (UANL-Mexico).
16	Magnetite nanostructures growth and characterization: possible application on hyperthermia therapy <i>N. Hernández-Guerrero, N. Torres-Gómez, A. R. Vilchis-Nestor</i> (UAEM-Mexico).
17	Junction-activation of CdTe/CdS heterostructure under controlled amount of cadmium chloride <i>Marisol Hernández Gutiérrez, Eulises Regalado-Perez, Leónides Rojas Gálvez, N.R. Mathews, X. Mathew</i> (IER-Mexico, UNICACH-Mexico).
18	Evaluation of nanoporosity by differential curves of adsorption in narrow pores zeolites <i>V.A. Hernández, M.A. Hernández</i> (FIQ-BUAP-Mexico).
19	Ag/ZnO nanostructured hollow spheres by hydrothermal and microwave-assisted synthesis <i>M. A. Herrera Pérez, A. Montes Mendez, R. Agustín Serrano, E. Reyes Cervantes, M. Juárez Meneses, E. Rubio Rosas</i> (FIQ-BUAP-Mexico, CUVyTT-Mexico).

20	<p>Double-negative metamaterial in optical range based on nanoscaled gold framed crosses</p> <p><i>A. Konovalenko, J. Reyes-Avenidaño, F. Pérez-Rodríguez</i> (IFUAP-Mexico, ITESM-Mexico).</p>
21	<p>Optimization of chemical bath deposited CuS thin films and their characterization</p> <p><i>F. Loranca-Ramos, E. Sanchez Mora, N. R. Mathews, Mou Pal</i> (IFUAP-Mexico, IER-Mexico).</p>
22	<p>Development of <math>\text{Cu}_2\text{ZnGeS}_4</math> thin films using nanoparticle precursor obtained through a wet-chemical route</p> <p><i>A. Martínez-Ayala, N.R. Mathews, X. Mathew</i> (IER-Mexico).</p>
23	<p>Far-field and near-field optical properties of spherical <math>\text{Au@SiO}_2</math> nanoparticles</p> <p><i>J. L. Montaña-Priede, O. Peña-Rodríguez, U. Pal</i> (IFUAP-Mexico, UPM-Spain).</p>
24	<p>Study of thermal annealing effect under different pressures on the material properties of <math>\text{Cu}_2\text{ZnSn(S,Se)}_4</math> thin films</p> <p><i>I. Montoya De Los Santos, Maykel C. Piedrahita, A. Martinez Ayala, M. Pal, N.R. Mathews, X. Mathew</i> (IER-Mexico, UDG-Mexico, IFUAP-Mexico).</p>
25	<p>Optical properties of <math>\text{Bi}_2\text{Mo}_x\text{W}_{1-x}\text{O}_6</math> by EELS</p> <p><i>D. Morales, F. Paraguay-Delgado, G. Herrera-Pérez, O. Salas-Torres, R Borja-Urby</i> (CIMAV-Mexico, ESIME-Mexico, CNMN-Mexico).</p>
26	<p>Earth abundant <math>\text{CuSbS}_2</math> thin films from electrodeposited Cu- <math>\text{Sb}_2\text{S}_3</math> layers</p> <p><i>R.Obispo-Solis, R.G. Avilés García, A. Martínez Ayala, N.R.Mathews</i> (IER-Mexico).</p>
27	<p>Evolution Pathway of CZTSe Nanoparticles Prepared by Microwave-assisted Chemical Synthesis</p> <p><i>Odín Reyes Vallejo, M.F. Sánchez, P.J. Sebastian</i> (IER-Mexico).</p>
28	<p>Design of an electronic system for the real time characterization of energy conversion devices</p> <p><i>J. Riquelme A., P. J. Sebastian, S.A. Gamboa, J. Campos</i> (TECNAMEX-Mexico, IER-Mexico).</p>
29	<p>Fabricación de celdas solares sensibilizadas por tinte usando películas de <math>\text{TiO}_2</math> de diferente porosidad</p> <p><i>J. Rossainz Santos, J. Villanueva-Cab, U. Pal</i> (IFUAP-Mexico).</p>
30	<p>Enhanced optical transmission through a nano-slit</p> <p><i>Juan Sumaya-Martínez, Daniel A. Rossano-Mercado</i> (UAEM-Mexico)</p>

31	Optical Response in Aperiodically Modulated One-dimensional Systems with Left-handed Materials <i>X. I. Saldaña</i> (IFUAP-Mexico).
32	Optical properties of $Sb_2S_3$ - $SiO_2$ composite opals <i>A. G. Sánchez-Gonzalez, E. Sánchez-Mora, R. Silva-González, J. Miguel Gracia y Jiménez, Mou Pal</i> (FIQ-BUAP-Mexico, IFUAP-Mexico).
33	Optical and structural characterization of gold nanoparticles incorporate a porous silicon: effect of the concentration of ions of gold <i>F. Morales-Morales, G. García-Salgado, F. Severiano, V. López Gayou</i> (ICUAP-Mexico, CIBA-Mexico).
34	Band gap engineering of porous Ge for applications to lithium batteries <i>A.N. Sosa, I. González, A. Trejo, A. Miranda, E. Carvajal, M. Cruz-Irisson</i> (ESIME-Mexico).
35	Far field diffraction of an ultrashort laser pulse by metallic rectangular nano-slits <i>J. Sumaya-Martinez, A.D. Rossano Mercado</i> (UAEM-Mexico).
36	Electronic structure and vibrational properties of GaSb nanowires: an ab-initio study <i>M. Marthen, A. Trejo, M. Cruz-Irisson</i> (ESIME-Mexico).
37	Influence of time deposition of SnS thin films on stainless steel substrate by Chemical Bath Deposition at room temperature <i>L. Treviño-Yarce, R. Romano-Trujillo, E. Rosendo, C. Morales, J. M. Lugo, A. I. Oliva, E. Flores, T. Díaz, G. García, R. Galeazzi</i> (ICUAP-Mexico, CINVESTAV-Merida-Mexico).
38	AMPS-1D simulation study of solar cells based on cubic $In_xGa_{1-x}N$ in green region <i>J.A. Santis, A. Ruiz, I. Zuñiga, J. Conde, H. Vilchis</i> (UNICACH-Mexico).
39	Relation between crystallographic structure and photoluminescence emission polarization for III-V semiconductor alloys <i>T. Prutskij, G. Attolini</i> (ICUAP-Mexico, IMEM/CNR-Italy).