

## Science and Applications of Thin Films, Conference & Exhibition

### POSTER SESSION A (3.30 pm to 5.30 pm, September 16, 2014)

PA001	<b>Elaboration and Characterization of Copper Doped ZnO Thin Films by Sol Gel Method</b> Mourad Zaabat, Tarek Saidani, Ahlam Benaboud and Azeddine Boudine
PA002	<b>Characterization and Tribological Behavior of Electroless Ni–P–WC Composite Coated Iron Based P/M Parts</b> Ulaş Matik and Ramazan Çitak
PA003	<b>Stress Controlling in Fe-Doped ZnO Nanostructures Synthesis by Convenient Electrochemical Techniques</b> Khalled Al-Heuseen and K. Al-Heuseen
PA004	<b>Influence of Phosphorus Contents on the Crystallization and Tribological Characteristics of Electroless Ni–P Films</b> Ulaş Matik and Ramazan Çitak
PA005	<b>Structural and Optical Investigations of Ag Thin Films Deposited on Porous Silicon</b> Mehmet Ozdogan, Alper Cetinel, Gokhan Utlu, Nurcan Artunc, Gundogdu Sahin and Enver Tarhan
PA006	<b>Electroless Deposition of Dense Pd Membranes on the Ultrasound-Assisted-Activated Alumina Support for Hydrogen Separation</b> Ting-Kan Tsai, Y. F. Cheng, J. K. Chen, J. H. Li and J. S. Fang
PA007	<b>Optical and Electrochemical Properties of Tungsten Oxide (WO<sub>3</sub>) Thin Films</b> Sani Demiri and Fatma Özütok
PA008	<b>Synthesis and characterization of polyaniline PANI quartz crystal microbalance QCM prepared by electrochemical method</b> Malika BEROUAKEN and GABOUZE Nouredine
PA009	<b>Ultrasound improves the anticorrosive performance of electroless Ni-P coating on the mild steel</b> Mohammad Entezari and Zahra Sharifalhoseini
PA010	<b>Fabrication and Characterization of Superconducting Bi2212 Bolometer for the Detection of THz Waves</b> Metin Kurt, Tugce Semerci, Hasan Koseoglu, Yasemin Demirhan, N. Miyakawa, H. B. Wang, and Lutfi Ozyuzer
PA011	<b>Study of the Physical Properties of Nanostructure ZnO:Cu Thin Films Obtained by Spray Pyrolysis Technique</b> Maryam Sarhadi and S.M.Rozati
PA012	<b>Comparative Study of Humidity Sensor Based on ZnO Thin Films Prepared by Sol-Gel Process</b> S.Ghanem, A.Telia and C.Boukaous
PA013	<b>Characterization Physical Properties and Structural of Cu–Te–Se Chalcogenide Alloys</b> Farid Abdel-Rahim

PA014	<b>A Contribution to the Study of the Performance Improvement of a Capacitive Pressure Sensor Using Carbide Silicon Membrane</b> Fouad Kerrou, Salah Kemouche and Abdelaziz Beddiaf
PA015	<b>Capacitance–Voltage Characteristics of SiCN/Si(100) Prepared by HWCVD Method</b> Akira Izumi and Shinya Morita
PA016	<b>In the production of conductive carbon and graphite based nanocomposite coatings to increase conductivity by decreasing amount of additives</b> Metin Yurddaskal, Mustafa EROL and Erdal CELIK
PA017	<b>Preparation, optical and electrochemical gas sensing properties of Nickel doped lithium iron phosphate thin films</b> Patima Nizamidin and Abliz Yimit
PA018	<b>Silver Coated Polymer Fibers by Roll to Roll Inverted Cylindrical Magnetron Sputtering</b> Adnan Tasdemir, Zeynep Meric, Mutlu D. Yaman, Cem Türkay, Gulnur Aygun and Lutfi Ozyuzer
PA019	<b>Design of Jaumann Type Radar Absorbing Composites using Thin Film Resistive Sheets</b> Mutlu D. Yaman, Lutfi Ozyuzer, Adnan Tasdemir, Serkan Kangal and Metin Tanoglu
PA020	<b>ITO Coated Thin Films and Its Optical and Electrical Characterizations</b> Cem Türkay, Mutlu D. Yaman, Adnan Tasdemir, Gulnur Aygun and Lutfi Ozyuzer
PA021	<b>Enhancement of Optical and Electrical Properties of ITO Thin Films by Electro-Annealing</b> Hasan Koseoglu, Mutlu D. Yaman, Metin Kurt, Fulya Turkoglu, Gulsah K. Akca, Gulnur Aygun, Lutfi Ozyuzer
PA022	<b>The Effect of Substrate Temperature and Biasing on Mechanical and Tribological Properties and Corrosion Resistance of CrN/Al 5083 Coatings</b> Kaykhosrow KHojier and Lida Ahmadkhani
PA023	<b>The Wear Properties of Low Carbon Steel Coated (St52) with ZrB<sub>2</sub> Nanoparticles by Laser Cladding</b> Tuncay Şimşek, Mustafa Barış, Adnan Akkurt, Orhan Yilmaz and Murat Bilen
PA024	<b>The Wear Properties of Low Carbon Steel (S235JRC) Coated with Co<sub>2</sub>B Nanoparticles by Laser Cladding</b> Mustafa Barış, Tuncay Şimşek, Adnan Akkurt, Orhan Yilmaz and Murat Bilen
PA025	<b>A Comparative Study of the Processes at Sintering of Coated and Premixed with Graphite Fe-powders</b> Lubomir Anestiev, Jordan Georgiev and Marcela Selecká
PA026	<b>Restoration of Protective Coatings on Details and Products that Have Been in Exploitation</b> Dmitry Mashtalyar, Sergey Sinebryukhov, Konstantine Nadaraia and Sergey Gnedenkov
PA027	<b>Characterization of Electrochemically Deposited Ni–Mo Alloy Coatings</b> BEN TEMAM Hachemi and E. GUETTA TEMAM
PA028	<b>The effects of Aluminum addition on TRD-NbN coated AISI M<sub>2</sub> Steel</b>

	Eray Abakay, Ibrahim Fatih Kekik, Saduman Sen and Ugur Sen
PA029	<b>Properties of TiAlON layers Deposited on Tungsten Carbide (WC) Substrate by Physical Vapor Deposition (PVD)</b> Gaber EL-AWADI
PA030	<b>A Novel Device Configuration Based on Multilayer a-SiC - Metal – a-SiC for Energetic and Photonic Applications</b> Aissa KEFFOUS
PA031	<b>Study of Optical Anisotropy with Correlation Between the Structural and Electrical Properties of Sb-doped CuInS<sub>2</sub> Thin Films Nano-Engineered by Glancing Angle Deposition.</b> Ferid Chaffar Akkari
PA032	<b>Investigating effect of oxygen pressure on structural, optical and morphological properties of Eu<sup>3+</sup>-doped Y<sub>2</sub>O<sub>2</sub>S thin film deposited by Pulsed Laser Deposition method.</b> Abdub Ali, FB Dejene and HC Swart
PA033	<b>Morphological and Optical Properties of Cr-doped ZnO Thin Films Prepared by Sol–Gel Spin Coating Method</b> Omer Guler, Handan Aydin, Cihat Aydin, Seval Hale Guler, Fahrettin Yakuphanoglu
PA034	<b>Preparation and Characterization of NiMnZnO Nano-fiber Thin Films</b> Cihat Aydin, Handan Aydin and Fahrettin Yakuphanoglu
PA035	<b>Producing Nanocrystalline Silicon Suboxide Thin Films nc-SiO<sub>x</sub>:H<sub>(x&lt;1)</sub> in PECVD</b> Kemal Rüzgar and Akın Bacioglu
PA036	<b>Formation of Anatase TiO<sub>2</sub> Films with a Porous Structure and Enhanced Photoactivity by the Synergy of WO<sub>3</sub> and Sodium</b> Giin-Shan Chen and J. L. Kuo
PA037	<b>Preparation, Magnetic and Transport Properties of Co-Cu Microwires</b> Valentina Zhukova, M Ilyn, J. J. del Val, A. Granovsky, A. Zhukov
PA038	<b>Synthesis and Optical Properties Nanostructure of Sn Doped Zinc Oxide Thin Films</b> H. Aydın, C. Aydın and F. Yakuphanoglu
PA039	<b>Synthesis and characterization of crack-free large-area 2D of transition metal oxides inverse opal film by a dynamic hard-template strategy on flexible and hard substrates</b> Yahia Djaoued and Hua Li
PA040	<b>Effect of Correlated Mixed Disorder on Miniband Structure and Resonance Energy of GaAs/Al<sub>x</sub>Ga<sub>1-x</sub>As Superlattices</b> Djelti Radouan, Besbes Anissa, Bentata Samir and Aziz Zoubir
PA041	<b>Low-Temperature Single-Source Precursors for Tin-Rich Indium Tin Oxides and Their Application for Thin-Film Transistors</b> Yilmaz Aksu, Kerim Samedov and Matthias Driess
PA042	<b>Design and Fabrication of Single and Double Layer Anti-Reflection Coating on Glass and Silicon by a-SiO<sub>x</sub>:H and a-SiN<sub>x</sub>:H</b>

	<b>Deposition in PECVD</b> Oldouz Tofigh Kouzehkonani and Akın Bacıoğlu
PA043	<b>The Influence of Preparation Parameters on Structural and Optical Properties of n-Type Porous Silicon</b> Alper Çetinel, Nurcan Artunç, Enver Tarhan and Gündoğdu Şahin
PA044	<b>Dependence of Structural and Optical Properties of Sol–Gel Derived ZnO Thin Films on Sol Concentration</b> Toubane Mahdia, A. Iratni, F. Bencuisi, A.AZIZI, R.Talaighil and A. slimani
PA045	<b>STRUCTURAL AND OPTICAL STUDY OF Co DOPED ZnO THIN FILMS</b> A.R. KHANTOUL, B. RAHAL, M. SEBAIS, B. BOUDINE, O. HALIMI, M. MEDJALDI
PA046	<b>Plasmonic waves of random metal-dielectric thin films</b> Afshin Moradi
PA047	<b>Properties of thin films of titanium dioxide deposited by plasma processes (RF magnetron sputtering)</b> S. Nezar, N. Saoula, N. Madaoui, R. Tadjine, M.M. Alim, S. Belhousse and S. Sali
PA048	<b>Physical Properties of Sprayed Bi<sub>2</sub>S<sub>3</sub> Nanocrystalline Thin Films</b> Khadraoui Mohammed, N. BENRAMDANE, R. MILOUA, M.MEDELES, A. BOUZIDI and K. SAHRAOUI
PA049	<b>OPTICAL PROPERTIES AND MORPHOLOGY OF MULTILAYER COATINGS FROM OXIDES AND SULFIDES</b> N. Ariko, A.A.Rogachev, V.E.Agabekov, N.N. Fedosenko and N.G. Ariko
PA050	<b>USE OF QUANTUM DOTS “SEQUESTERED” IN SOL-GEL MATRIX FOR FIBRE OPTIC BIOSENSING</b> Semanu TSEI, Jong Il RHEE, Galo J. A. A. SOLER-ILLIA and Pun To YUNG
PA051	<b>The Effect of Al<sub>2</sub>O<sub>3</sub> Gate Dielectric Layer on the Performance of Organic Thin Film Transistor</b> Çağlar Özer, Ehsan Nasirpour and Erdal Çelik
PA052	<b>Dependence of Optical and Mechanical Properties on Wettabilities and Surface Free Energies of the Polymers</b> Elbruz Murat Baba, Elif Ozen Cansoy, Esra Ozkan Zayim
PA053	<b>Electrical Characterization of p-Aminobenzoic Acid Langmuir-Blodgett Films Containing ZnS Nanoparticles</b> Gonul Yildirim, Gonul Yildirim, Tayfun Uzunoğlu, Rifat Çapan, Necmi Serin, Tülay Serin, Hüseyin Sari and Şirin Uzun
PA054	<b>Chemical Vapor Deposition of Epoxy and Amine Containing Thin Films for Transparent Adhesive Bonding of Thin Polymer Sheets</b> Mustafa Karaman and Mehmet Gürsoy
PA055	<b>Fabrication, Characterization and Gas Sensing Properties of Gold Nanoparticle and Calixarene Multilayers</b> İnci Çapan, Aseel K. Hassan and Rajaa Abbass
PA056	<b>Calix[4]arene Langmuir-Blodgett Thin Film for Chloroform Detection</b> Rifat Çapan, S. Şen, M.E. Özel, Z. Özbek and H. Gökteş

PA057	<b>Electric and Magnetic Field Assisted Effects on Molecular Orientation and Surface Morphology of the films of nonplanar phthalocyanines</b> Tamara Basova and Aseel Hassan
PA058	<b>Fabrication and characterization of mixed matrix cation exchange membranes modified by simultaneous using Ilmenite-co-iron oxide nanoparticles</b> Sayed Mohsen Hosseini, A. R. Hamidi, A. R. Moghadassi, S. S. Madaeni
PA059	<b>Polyvinyl alcohol films modified by organic dyes and zinc oxide nanoparticles</b> H. A. Almodarresiyeh, L.N. Filippovich, S. N. Shahab, N. G. Ariko and V. E. Agabekov
PA060	<b>Study on Doped TiO<sub>2</sub> Thin Films Prepared by Sol-Gel Process</b> Mohamed Mahtali, Khalida Benzouai, Afifa Derrouiche, Zahia Daas and Abderahmane Boutelala,
PA061	<b>Structural Analysis of Silicon Nanostructures Obtained from Thermal Annealing of a-Si/SiO<sub>2</sub> Superlattices</b> Lucie Prušáková, Pavol Šutta, Ing. Veronika Vavruňková and Ing. Marie Netrvalová
PA062	<b>Probing Lanthanum-Boron Double Film by Carbon Monoxide Adsorption</b> Tamerlan Magkoev, I.V. Tvauro, S.A. Khubezhov, A.G. Kaloeva, G.S. Grigorikina, A.P. Blied, V.A. Sozaev, O.G. Ashkhotov,
PA063	<b>The Effect of Annealing Temperature on the Microstructure and Electrical Property of La-Sr-Mn-O Thin Films Grown on Si(100) Substrates</b> Gang Wang and Shaoqun Jiang
PA064	<b>Optical Emission Spectroscopy of Sputtered Titanium and Nickel in RF Magnetron Discharge</b> Bouaouina Boudjemaa, S.E Abaidia and M.Salhi
PA065	<b>The Electronic and Magnetic Properties of La<sub>0.85</sub>Zr<sub>0.15</sub>MnO<sub>3</sub> Deposited on SrTiO<sub>3</sub> and MgO Substrates</b> N. G. Deshpande, C. H. Weng, Y. F. Wang, Y. C. Shao, C. Q. Cheng, D. C. Ling, H. C. Hsueh, C. H. Du and W. F. Pong
PA066	<b>On the Current-Density Electric Field Characteristics in Carbon Nanotubes</b> Ghassem Ansaripour
PA067	<b>Quantum-Size Oscillations of Thermoelectric Characteristics in IV-VI Semiconductor Nanostructures</b> Dmytro Freik, Rasit Ahiska Igor Yurchyshyn Lyubov Mezhylovska
PA068	<b>1D and 2D Photonic Crystal on the Left-Handed Metamaterial Base: Band Structure and Optics</b> Filiz Karaomerlioglu
PA069	<b>Synthesis and Characterization of Sol-Gel Synthesized CdZnO Nanocomposites</b> Sinem Aydemir and Şeref Kalem
PA070	<b>RADAR ABSORBING MATERIALS (RAM) BASED ON THIN OXIDE FILMS</b> Rafael De La Vega de Mendonça and Viviane Lilian Soethe
PA071	<b>Chemical composition and structure of thin La<sub>x</sub>Hf<sub>1-x</sub>O<sub>y</sub> films on Si</b>

	T.P.Smirnova, L.V.Yakovkina, V.O.Borisov and V.N.Kichay
PA072	<b>Temperature Dependence of Raman Scattering in (211)B CdTe/GaAs Grown by Molecular Beam Epitaxy</b> Selin ÖZDEN, Sinem DUMAN and Yusuf SELAMET
PA073	<b>Quenching of Pyrene and Tris(2,2'-bipyridine)ruthenium Dyes in Their Thin Film Forms by Nitric Oxide Radical</b> Ozlem Oter, Akif Cihan Aydın, Kadriye Ertekin and Erdal Celik
PA074	<b>Fabrication of High-T<sub>c</sub> Superconducting Multilayer Structure with YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Thin Films Separated by SrTiO<sub>3</sub> Interlayers</b> Yigitcan Uzun and Ilbeyi Avci
PA075	<b>Fabrication of NdFeB Thin Films for Applications in Superconductor and Ferromagnetic Systems and Characterization by Using Low Temperature Scanning Hall Probe Microscopy</b> Sunusi Suleiman Usman
PA076	<b>Analysis of Interface Charge Densities for ZrO<sub>2</sub> Based MOS Devices</b> N. P. Maity, Reshmi Maity, R. K. Thapa and S. Baishya
PA077	<b>Effects of Withdrawal Speed on the Microstructural and Optical Properties of Sol-gel Prepared ZnO:Al Thin Films</b> Sinem Aydemir
PA078	<b>Preferred Orientation of NaCl<sub>x</sub>Br<sub>(1-x)</sub> Polycrystalline in Different Atomic Planes</b> H. Sadeghi , A.Zolanvari, Z. Shahedi and F. Es'hagi
PA079	<b>Study of Intermediate Bands of Amorphous Oxygen-deficient and Hydrogen-Doped Molybdenum and Tungsten Oxide Films and Application in Multicolor Organic Light Emitting Diodes</b> Maria Vasilopoulou, Nikos A. Stathopoulos, Stelios A. Savaidis and Dimitris Davazoglou
PA080	<b>Surface Finishing Processing for Biocompatibility of the Multipurposes Medical Transmission Tubes</b> Ozlem Salman and Kadir Çeviker
PA081	<b>Semi-empirical Method to Extract Minority Carrier Bulk Lifetime and Surface Recombination Velocity in P-type Multicristallines Silicon Wafers from QSSPC Measurements</b> BOUHAFS Djoudi, N. Khelifati Abdelghani Boucheham, B. Palahouane,
PA082	<b>Analysis of FGM vibrating rectangular nanoplates in thermal environment</b> Korosh Khorshidi and Ali Bakhsheshy
PA083	<b>Structural and Optical Properties of Composite Thin Films Deposited by PLD Method</b> Mesure Mutlu Sanli, Elif Kacar, Mesadet Asuman Sinmaz, Belgin Genc Oztoprak and Arif Demir
PA084	<b>Plasma-Assisted Approach for Developing Janus Nanofibers that Improve Cell Proliferation and Extracellular Matrix Production</b> Mehmet Mutlu, Gizem Kaleli, Gözde Kabay, Zahida Sultanova, Özge Dincel and Bong Sup Shim
PA085	<b>Production and Development OF Yttrium Tantalate Niobate (YTa<sub>0.85</sub>Nb<sub>0.15</sub>O<sub>4</sub>) Thin Film X-ray Phosphor via Sol-Gel</b>

	<b>Technique</b> Serdar YILDIRIM, Selim Demirci, Omer Mermer, Mustafa Toparlı, L. Zumre Alıcan Alıcıkus, Fadime Akman and Erdal Celik,
PA086	<b>The Effect of the Crystalline Order on Magnetic Properties of Mn Implanted TiO<sub>2</sub></b> O.Yildirim, S. Cornelius, M. Butterling, W. Anwand, A. Wagner, A. Smekhova, C. Baecht, K. Potzger
PA087	<b>A Study of TiAlN Thin Films Deposited by Rf Magnetron Sputtering</b> Amina Zouina AIT DJAFER, Nadia Saoula, Daniel Wamwangi and Abdellatif Zerizer
PA088	<b>Influence of Substrate Temperature and Pulse Rate on the Structural and Luminescence Properties of (Y-Gd)<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>:Ce<sup>3+</sup> Phosphor Thin Films Grown by Pulsed Laser Deposition.</b> Ali Wako, Fancis B. Dejene and Hendrik C. Swart
PA089	<b>Modeling of Nanosecond Pulsed Electron Beam Ablation: Heating and Sublimation of a Graphite Target.</b> Muddassir Ali and Redhouane Henda
PA090	<b>Red Emitting Eu-doped YVO<sub>4</sub> Thin Film Phosphors Prepared by PLD</b> Foka Kewele, B.F Dejene and H.C Swart
PA091	<b>Measurement and simulation of point defects and trapping centers in lightly B-doped silicon for photovoltaic application</b> A. Dussan, F. Mesa and B. A. Paez-Sierra
PA092	<b>Characterization of VO<sub>2</sub> Films by X-Ray Photoelectron Spectroscopy (XPS)</b> A. Cantas, H.Yuce, M. Ozdemir, G. Aygun and L. Ozyuzer
PA093	<b>Growth and Characterisation of Electrodeposited ZnO Thin Films</b> N. Ait Ahmed, H. Hammache, S. Sam, L. Makhloufi, N. Gabouze
PA094	<b>Structural and Magnetic Properties La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/LaNiO<sub>3</sub> Superlattices Prepared by RF Sputtering</b> Hsin-Yi Lee and Heng-Jui Liu
PA095	<b>Effect of Hydrogen on the Properties of Hydrogenated Amorphous Silicon Carbide (a-SiC:H) Thin Films, Studied by FTIR and Spectroscopic Ellipsometry.</b> Amer BRIGHET and Mohamed Kechouane
PA096	<b>Structural, Morphological and Optoelectrical Characterization of Bi<sub>2</sub>S<sub>3</sub> Thin Films Grown by Co-Evaporation</b> F. Mesa, C.A. Arredondo and W. Vallejo
PA097	<b>Conversion Treatment of Thin Chromium Layers Deposited on High Carbon Steel Substrates</b> Younes BENARIOUA
PA098	<b>Plasma Chemical Deposition of Nanocomposite Polymer-based Coatings with Controlled Release of Biocide Agents</b> Alexander Rogachev, V.E. Agabekov, A.V. Rahachou, M.A. Yarmolenka and D.V. Tapalski
PA099	<b>Horseradish peroxidase enzyme immobilization on modified porous silicon for hydrogen peroxide detection</b>

	Amel Lounas, Yannick Coffinier, Nourerdine Gabouze, Sabrina Sam, Khadidja Khaldi, Rabah Boukherroub
<b>PA100</b>	<b>Study of immobilized-acetylcholinesterase on modified porous silicon surface</b> KHALDI Khadidja, Sabrina SAM, Amel LOUNAS, Nacera GHELLAI and Noure-Eddine GABOUZE
<b>PA101</b>	<b>Synthesis of (CH<sub>3</sub>NH<sub>3</sub>)PbI<sub>3</sub> Organic/inorganic Hybrid Perov-skite on TiO<sub>2</sub> Nano-structure Layer for Solar Cell Application</b> Hamid-Reza Bahari, A.A. Umar, M.M. Salleh and R. Turan
<b>PA102</b>	<b>Growth and Characterization and (NaOH)aq Treatment of Ga Doped ZnO Thin Films</b> Gundogdu Sahin, Enver Tarhan and A. Halis Guzelaydin
<b>PA103</b>	<b>Effect of Annealing Duration onto the Dark Current Transport Mechanism in CdTe/SdS Solar Cells</b> Sadan OZDEN, Adem DONMEZ, Cagdas KOCAK, Yasemin ALTINAY, Habibe BAYHAN, Murat BAYHAN, Jonathan MAJOR and Ken DUROSE
<b>PA104</b>	<b>Replacement of Amorphous Silicon Layer with Silicon Sub-oxides in Silicon Heterojunction Solar Cells</b> Okan YILMAZ, O. Pehlivan, D. Menda, O. Ozdemir and A. O. Kodolbas
<b>PA105</b>	<b>Effect of Zinc Acetate Precursor Concentration in Structural and Optical Properties of Tin Doped and Undoped Zinc Oxide Thin Layers</b> Razika TALA, B.LARAB, S.BACHIR, F.BENSOUICI, M.TOUBANE, A.SLIMANI, N.E.H ARABI, A. IRATNI
<b>PA106</b>	<b>Effect of Anodic Polarization on the Free-Floating Parts at Pt/YSZ Catalyst Electrode</b> Arafat Toghan
<b>PA107</b>	<b>Effects of Silver Doping on Nano Structured CdS Thin Films Sublimated by CSS Technique</b> Waqar Mahmood, Nazar Abbas Shah
<b>PA108</b>	<b>Annealing Effect on the Structural and Optical Properties of Pt –Al<sub>2</sub>O<sub>3</sub> nanocoatings for high temperature solar-thermal applications</b> Zebib Yenus Nuru, C.J. Arendse and M.Maaza
<b>PA109</b>	<b>Structural and Optical Properties of TCO Thin Films Deposited by Rf Magnetron Sputtering</b> Petronela Garoi
<b>PA110</b>	<b>In<sub>2</sub>S<sub>3</sub> Thin Films Buffer Layer Prepared by PVD Tehnique for Thin Film Solar Cells</b> Ammar Messous, Abdesselam Bouloufa and Kamal Djessas
<b>PA111</b>	<b>Substrate Temperature Effect on Optical Properties of Sprayed β-In<sub>2</sub>S<sub>3</sub> Thick Films</b> Noureddine Bouguila, A. Timoumi and H. Bouzouita
<b>PA112</b>	<b>High Performance ZnO:Al Films on Flexible and Soda-lime Glass Substrates Prepared by Radio Frequency Reactive Magnetron Sputtering</b> Abdesselam Bouloufa and Kamal Djessas
<b>PA113</b>	<b>Investigation of Si/ZnSnTe Heterojunction Growth and Device Properties</b>



	Hasan Huseyin Gullu, Arezoo Hosseini, Emre Coskun, Mehmet Parlak, Cigdem Ercelebi
<b>PA114</b>	<b>Aluminum Doped Zinc Oxides and Their Application in Dye Sensitized Solar Cells</b> Sule Erten Ela and Mesut Ekmekci
<b>PA115</b>	<b>Raman and Optical Studies of Spray Pyrolysed Sb<sub>2</sub>S<sub>3</sub> Thin Films</b> MEDLES Mourad, N. Benramdane, A. Bouzidi, K. Sahraoui, R. Desfeux and C. Mathieu
<b>PA116</b>	<b>Influence of Sulphur in the Precursor on Efficiency of Cu<sub>2</sub>ZnSnS<sub>4</sub> Solar Cell</b> Fulya Turkoglu, Sebnem Yazici, Metin Kurt, Gulsah K. Akca, Gulnur Aygun, E. Tarhan and Lutfi Ozyuzer
<b>PA117</b>	<b>Solution Processed Polymer-Fullerene Inverted Bulk Heterojunction Solar Cells</b> Sule Erten Ela
<b>PA118</b>	<b>Structural and Luminescence Properties of Yellow Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>:Ce<sup>3+</sup> Thin Film Phosphors Prepared by Pulsed Laser Deposition</b> FB Dejene, KT Roro and LF Koao
<b>PA119</b>	<b>Fabrication of Characterization BZCYYb Electrolyte Thin Films for IT-SOFCs by E-Beam Vapor Deposition</b> Min hwan Lim
<b>PA120</b>	<b>Performance Analysis of a Thin-Film Photovoltaic Generator of 3.6 kW Installed in Kahramanmaras</b> Saban Yilmaz, Saban Yilmaz, Hasan Rıza Ozcalık and Mustafa Aksu
<b>PA121</b>	<b>Tracing Current-voltage Curve of Silicon Solar Panel Based on LabVIEW Arduino Interfacing</b> Arar Hemza, HAOUAM Abdslam and Chennai Rachid
<b>PA122</b>	<b>Effect of Hydrogen on the Optical and Structural Properties of Amorphous Silicon Carbide Films</b> Imene ABDENNEBI, Kamel MIROUH and Mohamed KECHOUANE
<b>PA123</b>	<b>Controlling Si-H Bonds in i-layer on the Characteristics of a-Si:H p-i-n Solar Cells</b> Yeu-Long Jiang and Tai-Chao Kuo
<b>PA124</b>	<b>Electrical Properties of CuO/ZnO/ITO Heterojunction Elaborated by Spray Pyrolysis for Photovoltaic Devices</b> Lamia Chabane, N. Zebbar, M. Lamri Zeggar, M. S. Aida, M. Kechouane
<b>PA125</b>	<b>Effect of Substrate Temperature on the Structural, Morphological and Optical Properties of Sb<sub>2</sub>S<sub>3</sub> Thin Films</b> Fethi Aousgi, Wissem Dimassi, Brahim Bessais and Kanzari Mounir
<b>PA126</b>	<b>Synthesis of Silver Paste for Solar Cells Metallization</b> Yacine Boukennous, N. Moudir, I. Bozetine, R. Sikaddour, F. Tiour, M. Maoudj and A. Hazmoune
<b>PA127</b>	<b>Plasmonic Light-trapping for Silicon Solar Cells Using Au-Ag Nanoclusters</b> Melih Zafer ONDERLI, Necmi SERIN, Savas SONMEZOGLU
<b>PA128</b>	<b>Aluminum doped zinc oxide Wide bandgap p-type optical window for <math>\mu</math>c-Si superstrate solar cell</b> Idris Bouchama, F. Khaled, A. Bouloufa and Kamal Djessas
<b>PA129</b>	<b>Effect of paste concentration on morphology and size of pores in titania porous layer</b>

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<b>PA130</b>	<b>Electrical Characterizations of Cu<sub>2</sub>ZnSnS<sub>4</sub> Absorber Layer Material for Thin Film Solar Cells</b> Fatime Gulsah Akca, Sebnem Yazici, Mehmet Ali Olgar, Fulya Turkoglu, Gulnur Aygun, Ekrem Yanmaz, Lutfi Ozyuzer
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