

POSTER SESSION 1, Monday 15 October

P1-1 TCM	Influence of transparent conducting oxide contacts on performance of semi-transparent silicon thin-film solar cells J-S Cho, M. J. Shin, E. Jang, S. K. Ahn, J. Yoo, A. Cho, K. Kim, J. Gwak
P1-2 TCM	Preparation and properties of high performance LaCuOS thin films with effective doping prepared by chemical solution method N. Zhang, H. Gong
P1-3 TCM	Reliability of In ₂ O ₃ -based transparent conducting oxide films with high electron mobility fabricated at low temperatures T. Koida, Y. Ueno, H. Shibata
P1-4 TCM	Growth and characterization of gallium oxide films grown with nitrogen by plasma-assisted molecular-beam epitaxy T. Si Ngo, D. D. Le, J. Lee, S-K Hong
P1-5 BS3	Optical properties of niobium oxide films deposited by reactive sputtering with the plasma emission feedback system M. Saito, J. Jia, S. Nakamura, H. Machinaga, D. Gloess, Y. Shigesato
P1-6 TCM	Optical and electrical properties of surface-textured LPCVD ZnO:B layers for application in CIGS thin film solar cells J. Yoo, KW Nam, Y-J Eo, S Ahn, I. Jeong, A. Cho, D. Shin, S. K. Ahn, K. Kim, J. H. Park, J-S Cho, J. H. Yun, J. Gwak
P1-7 TCM	Solution processed ZnO thin films as window layers for CIGS solar cells S. Lee, H. Ji, S. Park, H. Ji, C-H Chung
P1-8 TCM	Electrochromic properties of vanadium-doped tungsten oxide films prepared by sparking method W. Thongpan, D. Louloudakis, P. Singjai
P1-9 BS2	High-temperature electrochemical crystal growth of alkali-metal titanium oxides with controlled structural and electronic properties Y. Chiba, M. Saito, T. Hagiwara, H. Takatsu, H. Kageyama, T. Motohashi
P1-10 TCM	Study of conductive oxides stability and sensitivity to hydrogen sulphide in air S. Krutovertsev, O. Ivanova, A. Tarasova, L. Krutovertseva
P1-11 BS2	CaFeO _x / LaFeO ₃ superlattices and/or multilayers, candidate materials for magnetic property controlled by electric field N. Iwata, T. Okamoto, K. Hiraoka, X. Li, K. Hirose, T. Nagata
P1-12 TCM	Carbon Monoxide and Methane sensing by a CuO electrochemical thin film sensor deposited on a Pyrex tube by PLD G. Petropoulou, P. Koralli, G. Mousdis and M. Kompitsas
P1-13 TCM	The effects of donors on improved conductivity of Ga-doped ZnO thin films post-annealed in vacuum and Zn vapor C. S. Lee, S. H. Jeong, B-T Lee
P1-14 BS2	A study of scanning capacitance microscopy and spectroscopy on HfO ₂ -based ferroelectric materials M-N Chang, C-J Su, C-T Wu, H-Y Kao, Y-S Wang, K-H Kao, Y-J Lee
P1-15 TCM	Defect formation in ZnO nanowires induced by N implantation J. E. Stehr, S. L. Chen, S. Shen, W. M. Chen, I. A. Buyanova
P1-16 BS2	Dielectric constant behavior in multiferroic 0.7BaTiO ₃ -0.3Pr _{0.65} Ca _{0.35} MnO ₃ core shell under magnetic field O. Yanagisawa, T. Fujimoto, K. Kitamura

P1-17 TCM	Study of graphene-based sol-gel ZnO/P ₂ O ₅ composite films as transparent conducting electrodes for solar cell applications I. C. Vasiliu, C. R. Stefan, M. Enculescu, M. Elisa, C.E.A. Grigorescu, C. Obreja, R. Popa, O. Buiu, L. Boroica, B.A. Sava
P1-18 TCM	First principles study of small polarons in LaCrO ₃ G. Brunin, G.-M. Rignanese and G. Hautier
P1-19 TCM	Growth of ZnO:N films by atmospheric-pressure CVD and effects of N doping on their structural and optical properties T. Terasako, Y. Ogura, M. Yagi
P1-20 TCM	Defect modulation doping of transparent conducting oxides M. Weidner, A. Fuchs, G. Deyu, A. Klein
P1-21 TCM	Effect of water on the film properties of RF-sputtered indium zinc oxide A. Steigert, R. Klenk, I. Lauer mann, R. Gunder, D. Kojda, R. Muydinov, B. Szyszka, S. Albrecht, S. Raoux
P1-22 TCM	Transparent Li ⁺ -loaded siloxane-polyether hybrid electrodes: effect of macromer nature and water dependence on the ionic conductivity G. Palacio, S.H. Pulcinelli, D. Boyer, C.V. Santilli
P1-23 TCM	Bending stability of Cu _x CrO ₂ -- a transparent p-type conducting oxide for large area flexible electronics E. Norton, L. Farrell, D. Mullarkey, D. Caffrey, D. Bellet, D. Oser, I. V. Shvets, K. Fleischer
P1-24 TCM	Development of nanostructured FTO films as transparent and diffuse electrodes for enhanced photovoltaic performances S. Lakhdar Chaouche, D. Bellet, A. Fave, S. Daniele, C. Jiménez
P1-25 TCM	Enhanced durability of tungsten oxide electrochromic films: Processes occurring at the indium-tin oxide substrate H-Y Qu, E. A. Rojas-González, C. G. Granqvist, G. A. Niklasson
P1-26 BS2	Oxygen-related point defects on the surface of conductive Ga-doped ZnO polycrystalline films modified with the irradiation of electronegative oxygen ions generated in afterarc plasma T. Yamamoto, Y. Furubayashi, H. Kitami, J. Nomoto, H. Makino, T. Sakemi
P1-27 BS1	Effects of electron beam irradiation on IGZO-based TFT B. H. Kim, S. H. Kwon, Y. J. Yoon
P1-28 BS3	Application of transparent conductive oxide films on rigid plastic substrate to electromagnetic absorbing devices S. H. Kwon, B. H. Kim, I-G Lee, I-P Hong, Y. J. Yoon
P1-29 BS1	Photoresponsivity of molybdenum disulfide thin films synthesized by sputtering and electron beam irradiation B. H. Kim, S. H. Kwon, Y. J. Yoon
P1-30 TCM	Growth of ZnO transparent conducting thin films using chemical bath deposition C-H Chung, S. Park, H. Ji, S. Lee
P1-31 TCM	Synthesis and characterization of single-source precursors of bismuth bearing OCO or SCS chelating ligands B. Garita-Salazar, L. W. Pineda
P1-32 TCM	Characterization of spray pyrolyzed Ga ₂ O ₃ thin films for thin-film transistor device applications M. P. A. Jallorina, G. Antoniou, Y. Uraoka, G. Adamopoulos
P1-33 TCM	Electrochemical impedance spectroscopy analysis of indium-tin oxide films at high applied potentials E. A. Rojas-González, H-Y Qu, C. G. Granqvist, G. A. Niklasson
P1-34 TCM	Oxygen vacancy in amorphous oxide semiconductors: A hybrid density functional molecular dynamics study H. Song, Y. Kang, S. Han

P1-35 TCM	Optical properties of as-deposited and rapid thermal annealed ITO thin films <u>P. Prepelita</u>, I. Stavarache, D. Craciun, F. Garoi, C. Negrila, B. Sbarcea, V. Craciun
P1-36 TCM	Nanostructured films prepared from Al and F doped tin oxide nanoparticles synthesized by laser pyrolysis <u>F. Dumitrache</u>, C. Fleaca, M. Dumitru, E. Dutu, I.M. Morjan, C. I. Locovei, E. Tanasa
P1-37 TCM	Synthesis of flower-like nickel oxide particles for application to electrochromic device <u>W. C. Lee</u>, B. Hong
P1-38 TCM	Dependency of the properties of magnetron sputtering grown ZnSnO ₃ on composition, growth parameters and post growth treatment <u>D. Caffrey</u>, A. Kaisha, A. Zhussupbekova, I. V. Shvets, K. Fleischer
P1-39 TCM	Investigation of indium Zinc oxide (IZO) windows in high-efficiency Cu(In,Ga)Se ₂ solar cells <u>R. Menner</u>, T. Magorian-Friedlmeier
P1-40 TCM	Heteroepitaxial growth of ε-Ga ₂ O ₃ thin films on (111) 3C-SiC templates by mist chemical vapor deposition <u>T. Kaneko</u>, S. Fujiwara, M. Koyama, T. Maemoto, S. Sasa
P1-41 TCM	Effects of the Al doping on thermal conductivity for heteroepitaxially grown Al-doped ZnO films <u>K. Honda</u>, Y. Yamashita, J. Jia, T. Yagi, S. Nakamura, N. Taketoshi, Y. Shigesato

POSTER SESSION 2, Thursday 18 October

P2-1 TCM	Cuprous oxide/cadmium stannate heterojunction diodes obtained by dip-coating method G. Martínez-Saucedo, R. Castanedo-Pérez, G. Torres-Delgado, J. Márquez-Marínand, O. Zelaya-Ángel
P2-2 BS3	Highly conductive vanadate glass containing tin oxide or indium oxides Y. Fujita, S. Masuda, N. Yamaguchi, T. Izumi, S. Sachiya, S. Kubuki, T. Nishida, N. Oka
P2-3 BS3	Removal of various metal ions in aqueous solution using Poly(2-acrylamido-2-methyl-1-propanesulfonic acid) hydrogel S. Masuda, R. Sugimoto, T. Nishida, N. Oka
P2-4 BS3	Development of bifunctional air-electrode for metal-air battery using conductive vanadate glass H. Miyamoto, M. Yuasa, T. Nishida, N. Oka
P2-5 TCM	Atomic layer deposition applied in a combinatorial approach for the growth of ZnO and TiO ₂ nanolaminates possessing tuneable photoactivity S. Doyle, L. Ryan, I. Povey, M. Pemble
P2-6 TCM	Screening of barrier materials deposited by ALD for the use in LED lighting R. Ritasalo, T. Suni, T. Pilvi, R. Tomasiunas, I. Reklaitis, S. Taeger, E. Hörner, M. Mandl
P2-7 TCM	Composite titanate nanorods as oxygen optical sensors O. Marantos, V. Binas, M. Moschogiannaki, G. Kiriakidis, A. Klini
P2-8 TCM	Effect of deposition temperature and amount of Zn on Gallium oxide coatings grown using a Pulsed Laser Deposition system D. Louloudakis, H. Tan, G. Kiriakidis, C. Jagadish
P2-9 TCM	Growth and characterization of ZnMg-oxynitrides P. John, C. Deparis, B. Alloing, E. Beraudo, M. Al-Khalifioui, M. Hugues, M. Nemoz, S. Vézian, P. Vennéguès, M. Leroux and J. Zuniga-Perez
P2-10 BS1	Hole-selective MoO _x coating as a window layer for carbon nanotubes / thin-film silicon hybrid solar cells H. Meddeb, O. Sergeev, M. Vehse, P. Rajanna, A. Nasibulin, S. Bereznev, D. Dosenovicova, C. Agert
P2-11 TCM	Morphology and electric properties control of gallium oxide films grown by Organo-Metallic Chemical Vapor Deposition (MOCVD) and atmospheric-pressure CVD S. A. Hassani, C. Sartel, E. Chikoidzé, C. Vilar, Y. Dumont and V. Sallet
P2-12 TCM	Effect of thermal annealing on structural, optical, morphological and photocatalytic activity of ZnWO ₄ nanoparticles V. Faka, C. Patriarcea, M. Moschogianaki, L. Zouridi, G. Kiriakidis, V. Binas
P2-13 TCM	A suitability factor for selection of transparent electrodes for photovoltaic absorbers T. Featherstone, J. Major, T. Veal
P2-14 BS1	Growth of GaN/GaN:Si structures on N-polar GaN bulk substrates obtained by ammonothermal method Ł. Janicki, M. Rudziński, S. Złotnik, R. Kucharski, M. Zając, J. Serafińczuk, R. Kudrawiec
P2-15 TCM	Dispersion stability of vanadium dioxide nanoparticles and thermochromic properties of thin films M. Xygkis, M. Gagaoudakis, L. Zouridi, O. Markaki, E. Aperathitis, K. Chrysopoulou, G. Kiriakidis, V. Binas
P2-16 TCM	Photocatalytic degradation of para - aminobenzoic acid with doped ZnO nanoparticles C. Patriarcea, M. Charalampakis, M. Moschogianaki, G. Kiriakidis, V. Binas
P2-17 TCM	Sol-gel derived functional layers: impact on the film surface and bulk morphology R. Tomašiūnas, E. Radiūnas, G. Domann, P. Löbmann, V. Müller, D. O'Brien, M. Straßburg

P2-18 BS2	Room temperature ferromagnetism of the layered oxypnictides (LaO)ZnPn (Pn=As,Sb) <u>K. Takase</u>, T. Shimomura, K. Sone, Y. Hara
P2-19 TCM	Transparent and conductive multilayer electrode for organic solar cells <u>M. A. Cherif</u>, A. Labiod, D. Barakel, S. Touihri, P. Torchio
P2-20 TCM	Solution based synthesis of Ag ₃ PO ₄ /Fe ₂ TiO ₅ nanocomposites for photodegradation of organic pollutants <u>N. Andriannaki</u>, M. Moschogiannaki, G. Kiriakidis, V. Binas
P2-21 TCM	Co-Ni bimetallic catalysts supported on CeO ₂ for CO ₂ plasma and thermal methanation <u>E. Pervolarakis</u>, M. Biset-Peiró, M. Charalampakis, G. Kyriakidis, J. R. Morante, T. Andreu, V. Binas
P2-22 BS2	Fabrication and properties of titanium dioxide films sputter-deposited varying substrate temperature <u>T. Ichinohe</u>, T. Mitani, M. Yamaguchi, S. Suzuki, H. Ohno
P2-23 TCM	Li-doped NiO nanocrystals for TCO film <u>D. Li</u>, M. Hu, D. Yang
P2-24 BS3	Fabrication of F doped α -Ga ₂ O ₃ thin films with low electrical resistivity <u>S. Morimoto</u>, H.Nishinaka, M. Yoshimoto
P2-25 BS3	Epitaxial growth of SnO ₂ :F thin films on c-plane sapphire substrates with tensile strain <u>T. Okumura</u>, H. Nishinaka, M. Yoshimoto
P2-26 TCM	XRD investigations of AZO films prepared by DC pulsed magnetron sputtering <u>M. Sripakdee</u>, K. Seawsakul, M. Horprathum, P Eiamchai, S. Limwichean, C. Songsiriritthigul, N. Mothong, P. Songsiriritthigul
P2-27 TCM	A study of IGZO-HfO ₂ -IZO thin film transistors fabricated by pulsed laser deposition <u>F. Gherendj</u>, D. Craciun, G. Dorcioman, V. Craciun
P2-28 TCM	Transparent epitaxial indium oxide thin films grown by pulsed electron beam deposition <u>M. Nistor</u>, F. Gherendi, J. Perrière
P2-29 TCM	Gas sensing elements based on graphene related and hybrid perovskite materials <u>S. Papazoglou</u>, K. Petridis, G. Kakavelakis, E. Gagaoudakis, V. Binas, G. Kiriakidis, S. Chatzandroulis, Y. S. Raptis, E. Kymakis and I. Zergioti
P2-30 TCM	Y ₂ O ₃ nanoparticles-induced stabilisation of solution-processed ZrO ₂ high-k gate dielectrics for metal oxide thin film transistors <u>G. Antoniou</u>, N. Halcovitch, W. I. Milne, G. Adamopoulos
P2-31 TCM	Influence of doping in crystallinity and electrical properties of sprayed p-type NiO thin films <u>C. Marques</u>, <u>D. Gaspar</u>, L. Pereira, E. Fortunato, R. Martins
P2-32 TCM	Hydrogenated Indium oxide-based TCOs with improved electro-optical properties <u>D. Gaspar</u>, S. Panigrahi, L. Pereira, E. Fortunato, R. Martins
P2-33 TCM	Solution processed WO ₃ for electrochromic applications. Structure and properties <u>N. Hadjittoouli</u>, G. Antoniou, N. Halcovitch, W. I. Milne, G. Adamopoulos
P2-34 TCM	Thin film transistors based on solution-processed In ₂ O ₃ :W. A remarkably stable semiconductor under high negative bias stress <u>K. Paxinos</u>, W. I. Milne, G. Adamopoulos
P2-35 TCM	ITO-vs-ITON: Physical and mechanical properties <u>A. K. Pantazis</u>, E. Gagaoudakis, M. Androulidaki, K. Tsagaraki, E. Iliopoulos, N. Michailidis, M. Modreanu, E. Aperathitis
P2-36 TCM	Solution processed amorphous tantalum oxide films as alternative high-k gate dielectrics <u>U. Dikko</u>, N. Halcovitch, W.I. Milne, G. Adamopoulos

P2-37 TCM	Reduced graphene oxide / transition metal oxide / urea composite materials for photocatalytic degradation of organic pollutants in aqueous medium R. Ivan, C. Popescu, A. Pérez del Pino, C. Logofatu, E. György
P2-38 TCM	Laser Induced Breakdown Spectroscopy (LIBS) for the in-situ characterization of multi-layered thin films N. Giannakaris, P. Siozos, S.P. Banerjee, D. Anglos
P2-39 TCM	Local structure of Nb and/or N doped TiO ₂ film formed by reactive sputtering T. Okajima, J. Jia, H. Nishiyama, Y. Shigesato
P2-40 TCM	Evaluation of the figure of merit of chemically sprayed fluorine doped Zinc Oxide thin films M. de la L. Olvera, A. Maldonado
P2-41 TCM	Comparative studies between the effect Of H ₂ O and methanol on the growth of copper oxide (CuO) thin films deposited by spray pyrolysis H. Serrar, A. Bouabellou, Y. Bellal, A. Bouhank, Y. Bouachiba, A. Taabouch, A.R. Khantoul
P2-42 TCM	Theoretical study of water interaction with functionalized benzene molecules R.M. Giappa, E. Klontzas, G. Froudakis