

Poster session 1, Monday 10 October

1	The influence of temperature on the CIGS films deposited by picosecond laser ablation for solar cells applications C. Sima, Ov. Toma
2	Revealing the physical properties of semiconductor super-lattices $Al_xGa_{1-x}N$ and $In_xGa_{1-x}N$ within the full-potential linearized augmented plane-wave approach M. Hadjab, M. Ibrir, I. Bouchama, S. Berrah, H. Abid, S. Boudour
3	Investigation of glyme additives to organometallic ink systems B. Fleming, S. Rushworth
4	Novel synthetic pathways towards well-defined double-layered nanographene derivatives S. Bartocchini, A. Marrocchi, H. Hopf
5	Pulsed laser deposition of ZnO thin films decorated with Au and Pd nanoparticles with enhanced acetone sensing performance M. Alexiadou, M. Kandyla, G. Mousdis, M. Kompitsas
6	Optimization of CdTe solar cell performances using Ga-doped $Mg_xZn_{1-x}O$ buffer layers S. Boudour, I. Bouchama, M. Hadjab
7	A three-terminal ultraviolet photodetector constructed on a barrier-modulated triple-layer architecture Z. Mei, D. Ye, H. Liang, L. liu, Y. Zhang, J. Li, Y. Liu, C. Gu, X. Du
8	Sn doped α - Ga_2O_3 : deep UV transparent conductor E. Chikoidze, K. Akaiwa, K. Kaneko, S. Fujita, H. J. von Bardeleben, Y. Dumont
9	Study on surface-textured LPCVD ZnO:B thin films for enhanced light-trapping effect J. Yoo, K. Kim, Y-J Eo, J. H. Park, J. Gwak, S-K Ahn, A. Cho, S. Ahn, J-H Yun, J-S Cho
10	The semiconductor-metal transition in V_2O_5 thin films deposited by rf magnetron sputtering: the influence of oxygen content in physical properties D. Acosta, A. Pérez, C. Magaña, F. Hernández
11	Electronic processes in doped ZnO nanopowders and transparent ceramics L. Grigorjeva, K. Smits, A. Zolotarjovs, E. Gorokhova, S. B. Eron'ko, P. Rodnyi, K. Chernenko
12	Atomic layer deposition of electroactive V_2O_5 layers for potential energy storage and electrochromic applications D. Vernardou, M. Apostolopoulou, N. Katsarakis, E. Koudoumas, I. I. Kazadojev, I. M. Povey, S. O'Brien, M. E. Pemble
13	p-type Mg doped $CuCrO_2$ transparent conducting thin layers E. Chikoidze, M. Boshta, H. Mohamed, T. Tchelidze, D. Daraselia, D. Japaridze, A. Shengelaya, Y. Dumont, C. Mathai, M. Neumann-Spallart
14	Nanoscale ZnO-enhanced/Si heterojunction pure/stable blue light emitting diode S. Fiat Varol, M. Kompitsas, D. Unal, Z. Merdan, D. E. Manolacos, P. Koralli
15	Enhanced efficiency of Cu (In, Ga) Se_2 solar cells by adding $Cu_2ZnSn(S, Se)_4$ absorber layer H. Heriche, Z. Rouabah, I. Bouchama, S. Benabbas, N. Bouarissa, L. Selmani

16	ALD of various transparent electron transport layers (ETLs) for use in planar perovskite solar cells M. McCarthy, A. Walsh, S. O'Brien, M. E. Pemble, <u>I. M. Povey</u>
17	Transparent conductive oxide as a protective layer in the development of an effective photoanode for solar water splitting applications <u>J. Halpin</u>, J. Kegel, I. Povey, M. Pemble
18	Sprayed ZnO: al thin film as abundant TCO layer for nc-Si:H/C-Si solar cell application F. A. Mahmoud, W. Magdy
19	AZO/n-type nc-Si:H/ p-type C-Si wafer/Ag heterojunction solar cells; studying the properties of nc-Si:H layer and the effect of AZO preparation technique F. A. Mahmoud, W. Magdy
20	Photocatalytic degradation of textile wastewater using Ag/Zno thin film A. AbdelSamad, T. A. Gad-Allah, <u>F. A. Mahmoud</u>, M. I. Badawy
21	Hydrogen influence on the electrical, optical and chemical properties of aluminum gallium-doped zinc oxide film deposited by facing target sputtering S. H. Cho, H. Y. Jang, S. H. Kim
22	Hybrid van der Waals p-n heterojunctions based on p-type oxide and 2D MoS ₂ <u>Z. Wang</u>, X. He, X-X Zhang, H. N. Alshareef
23	Thermodynamic analyses of point and impurity defect concentrational equilibrium in Cu(I)M(III)O ₂ materials T. Tchelidze, <u>E. Chikoidze</u>, M. Boshta, D. Daraselia, D. Japaridze, A. Shengelaya, Y. Dumont, M. Neumann-Spallart
24	Innovative five guns EB-PVD technique for perovskite nanostructured thin films deposition C. F. Rusti, A. A. Sobetkii, R. M. Piticescu, C. Bogdanescu, A.I. Tudor, A.M. Motoc, R. R. Piticescu, C. Pantilimon, C. Dragan
25	Crystallization of sputtered In ₂ O ₃ and In ₂ O ₃ :H <u>A. Steigert</u>, I. Lauer mann, S. Körner, R. Muydinov, B.Szyszk, R. Schlatmann, R. Klenk
26	Biodegradable polymer blends for applications in field-effect transistors <u>M.P. Bracciale</u>, A. Broggi, M. L. Santarelli, A. Facchetti, A. Marrocchi
27	CZTS Solar Cell performance enhancement using Al-doped ZnO nanorods A. S. Salim, B. Idris, <u>S. Boudour</u>, N. Amin
28	Tuning the refractive index of transparent conducting oxides via oxide/oxide periodic heterostructures D. Caffrey, E. Norton, C. O'Coileain, L. Farrell, B. Bulfin, C. M. Smith, I. V. Shvets, <u>K. Fleischer</u>
29	Squaraine-based polymers: towards optimized structures for efficient field-effect transistors <u>A. Broggi</u>, M. P. Bracciale, M. L. Santarelli, C. Kim, A. Marrocchi
30	Does the dopant influence the texture of magnetron sputtered In ₂ O ₃ thin films? <u>A. H. Hubmann</u>, M. V. Frischbier, H. F. Wardenga, K. L. Hoyer, A. Klein
31	Effects of fabrication conditions and post-annealing on the characteristics of thin film transistors with Zr-Al-Zn-O channel layers <u>H-S Jun</u>, S-H Lee, J-H Park, W. Kim, J-S Park

32	Effect of plasma treatment on the characteristics of thin film transistors with zirconium-aluminum-zinc oxide active channels J. Park, S-H Lee, H-S Jun, W Kim, J-S Park
33	p-type SnO bilayers based nano crossbar memristors M. K. Hota, and H. N. Alshareef
34	Study of the effect of thin ALD oxide coatings on the stability of silver nanowire based transparent electrodes S. AghazadehChors, V. Nguyen, M. Lagrange, A. Khan, T. Sannicolo, N.D. Nguyen, D. Muñoz-Rojas, D. Bellet
35	Cadmium zinc sulfide $Cd_{1-x}Zn_xS$ for improving the performance of chalcogenides CdTe, CZTS and CZTSe solar cells S. Benabbas, Z. Rouabah, H. Heriche, N-E Chelali, N. Bouarissa