

Thursday 18 October				
Imperial Main Chairs: G. Sberveglieri / K. Ellmer				
08:30-09:10	P22 - G. Westin , K. Lashgari, M. Leideborg, S. Naim Katea Complex composition and shape structures by solution chemistry			
09:10-09:50	P23 - B. Szyszka , R. Muydinov, S. Körner, M. Hartig, D. Erfurt, R. Klenk, M. D. Heinemann, C. Kaufmann, B. Stannowski, R. Schlatmann, A. Steigert, M. Siemers, S. Ulrich, V. Sittinger, A. Pflug TCOs by sputtering – Milestones of 40 years			
09:50-10:30	P24 - H. N. Alshareef , M. Hota, F. Alshammari, X. Xu Hybrid devices comprising two dimensional materials and oxide semiconductors			
10:30-11:00	Coffee break			
	TCM Session 7A (Imperial Main) Chairs: E. Comini / E. Papadopoulou	TCM Session 7B (Imperial 1) Chairs: M. Penza / D. C. Koutsogeorgis	BS Session 7A (Imperial 2) Chairs: I. Grzegory / M. Kasu	BS Session 7B (Imperial 3) Chairs: H. Tabata / K. Kinoshita
11:00-11:30	TCM-I19.ID-212 A. Lappas Colloidal nanocrystal architectures with coupled magnetic and optical functionalities	TCM-I22.ID-23 P. Zalar Towards printed conformable sensing surfaces	BS1-I13.ID-187 J. Pernot , T. T. Pham, N. Rouger, C. Masante, G. Chicot, F. Udrea, D. Eon, E. Gheeraert Recent progresses in deep depletion diamond MOSFET	BS2-I14.ID-81 D. Kan Anomalous behavior in transverse resistivity in the itinerant ferromagnetic oxide SrRuO ₃
11:30-11:40	TCM-I20.ID-237 M. Bender , H. C. Park, A. S. Bhoolakam, P. Tsai, R. Lim, J. B. Kim, D. K. Yim Deposition of MOx active layers by rotary cathode technology on large area substrates for OLED applications	TCM-I23.ID-243 D. Venieri , A. Kaliakatsos, K. Koumaki, V. Binas, G. Kiriakidis, A. Petala, D. I. Kondarides Disinfection of wastewater by solar photocatalysis in a pilot-scale application	BS1-I14.ID-188 S-W Kim , Y. Kawamata, K. Ikejiri, K. Fujita, Y. Kimura, M. Kasu Electrical properties of CMP treated 1 inch heteroepitaxial diamond substrates	BS2-O1.ID-42 S. Periyannan , L. Mancieru, P. Colson, A. Klein, W. Jaegermann, C. Henrist, R. Cloots Surface characteristics of ZnO nanorods and their influence on heterostructure formation with NiO: Electronic, photocatalytic and photo electro chemical studies
11:40-11:50			BS2-O2.ID-260 A. Politis EIT RawMaterials: The world's largest network for innovation in metals and minerals	
11:50-12:00				BS2-O3.ID-57 N. I. Medvedeva , D.V. Suetin, A.L. Buzlukov, Y.V. Baklanova, T. A. Denisova, A.V. Skachkov, S.F. Solodovnikov, O.A. Gulyaeva, A.A. Savina, E.G. Khaikina Diffusion mechanisms in perspective electrolyte materials Na _x M _y (MoO ₄) ₃ from NMR experiments and Ab initio calculations
12:00-12:10	TCM-O31.ID-7 J. Rezek , J. Houška, T. Kozák, M. Procházka, P. Novák Reactive high-power impulse magnetron sputtering of IGZO and AZO thin films	TCM-O36.ID-35 P. Poosekheaw , W. Thongpan, P. Singjai Enhanced visible-light photocatalytic performance of V ₂ O ₅ /TiO ₂ catalyst films prepared by sparking process	BS1-I15.ID-24 Y. Koide , R. G. Banal, M. Imura, J.-W. Liu, M. Liao Electrical properties of H-terminated diamond FETs with AlN gate	
12:10-12:20				
12:20-12:30	TCM-O32.ID-128 J. Resende , T. Sannicolo, A. Khan, N. Charvin, A. Nouridine, D. Bellet D.T. Papanastasiou, V. Nguyen, S. Aghazadehchors, D. Muñoz-Rojas, C. Jiménez, N. D. Nguyen, L. Flandin Optimizing the properties of transparent electrodes based on silver nanowire networks for integration into organic solar cells	TCM-O37.ID-73 H. E. Unalan , R. Yuksel, S. Coskun Silver nanowire networks as supercapacitor electrodes		
12:30-12:40				
12:40-14:00	Lunch			

	Imperial Main Chairs: G. Gelinck / S. E. Pratsinis			
14:00-14:40	P25 - <u>L. Torsi</u> Single-molecule detection with a millimetre-sized transistor			
14:40-15:20	P26 - <u>M. Penza</u> Functional materials for sustainability applications			
15:20-16:00	P27 - <u>J. Amouroux</u>, P. Siffert, J. P. Massue Innovations processes the new ways for carbon dioxide recycling			
16:00-16:30	Coffee break			
	TCM Session 8A (Imperial Main) Chairs: D. Papadaki / D. Kan	TCM Session 8B (Imperial 1) Chairs: J. Pernot / N. I. Medvedeva	BS Session 8A (Imperial 2) Chairs: A. Lappas / D. Eon	BS Session 8B (Imperial 3) Chairs: K. Ueda / T. Yanagida
16:30-17:00	TCM-I21.ID-203 <u>L. G. Occhipinti</u> , E.K.W. Tan, G. Rughoobur, J. R. Lara, N. Tiwale, Z. Xiao, C. A.B. Davidson, C. R. Lowe Reliable fabrication of conductive and semi- conductiven nanostructures on elastomers	TCM-I24.ID-210 <u>M.V. Diamanti</u> , A. Brenn, M. Ormelles, B. Del Curt, MP. Pedeferr Transparent anodic titanium oxides: From interference colors to memristive properties	BS1-I16.ID-79 <u>T. Kachi</u> GaN electron devices for automobile applications	BS3-I11.ID-103 <u>K. Fujiwara</u> , H. Minato, A. Tsukazaki Field-effect transistor based on crystalline ZnSnO ₃ grown by molecular beam epitaxy
17:00-17:10	TCM-O33.ID-161 <u>K. Seawsakul</u> , M. Horprathum, P. Eiamchai, V. Pattantsetakul, S. Limwichean, C. Chananonwathorn, P. Muthitamongkol, C. Thanachayanont, A. Klamchuen, T. Wutikhun, H. Nakajima, M. Sripakdee, P. Songsiriritthigul Effects of post annealing treatment on vertically aligned nanocolumnar AZO thin films fabricated by glancing angle deposition technique	TCM-O38.ID-61 <u>S. Roellgen</u> , R. Walter, N. Stieglmeier, M. Maute Low-damage ITO sputtering for LED application	BS1-I17.ID-2 <u>V. Craciun</u> Gamma irradiation induced effects in amorphous indium zinc oxide films	BS3-I12.ID-8 <u>J. Houska</u> , D. Kolenaty, T. Barta, J. Rezek, Ja. Vlcek Design of high-performance VO ₂ - based thermochromic coatings, and pathway for their low- temperature preparation
17:10-17:20				
17:20-17:30	TCM-O34.ID-127 <u>K. Fröhlich</u> , M. Mikolášek, L. Krajčír, A. Rosová, J. Šoltýs, E. Dobročka Low resistivity Al-doped ZnO films grown by atomic layer deposition	TCM-O39.ID-25 <u>V. Sallet</u> , C. Sartel, S. Hassani, G. Amiri, A. Lussou, P. Galtier, I. Lefevbre, C. Delerue, B. Masenelli Crystal facet engineering in Ga- doped ZnO nanowires for Mid-IR plasmonics	BS1-I18.ID-60 <u>M. Tordjman</u> , R. Kalish Investigation of diamond transfer doping efficiency with different transition metal oxides	BS3-I13.ID-9 <u>T. Koida</u> , J. Nishinaga, Y. Ueno, H. Higuchi, H. Takahashi, M. Iioka, H. Shibata, S. Niki Improved power conversion efficiency in Cu(In,Ga)Se ₂ solar cells and minimodules via In ₂ O ₃ - based window electrodes with high electron mobility
17:30-17:40				
17:40-17:50	TCM-O35.ID-95 <u>P. Novák</u> , J. Očenášek, T. Kozák, R. Medlín, O. Bláhová Tuning the electrical properties of sputtered AZO films towards flexible device	TCM-O40.ID-111 <u>P. Wendel</u> , D. Dietz, A. Klein Barrier modulation of ZnO Schottky barriers	BS1-I18.ID-60 <u>M. Tordjman</u> , R. Kalish Investigation of diamond transfer doping efficiency with different transition metal oxides	BS3-I13.ID-9 <u>T. Koida</u> , J. Nishinaga, Y. Ueno, H. Higuchi, H. Takahashi, M. Iioka, H. Shibata, S. Niki Improved power conversion efficiency in Cu(In,Ga)Se ₂ solar cells and minimodules via In ₂ O ₃ - based window electrodes with high electron mobility
17:50-18:00				
18:00-19:10	Poster session 2			
21:00-22:00	TCMnet General Assembly			