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|             | <b>Tuesday 16 October</b>  |  |   |   |
|             | <b>Imperial Main</b><br>Chairs: T. Yamamoto / E. Fortunato   |  |   |   |
| 08:30-09:10 | <b>P10 - S. Y. Lee</b> , B. H. Lee<br>Modulation of capping layer with amorphous SiZnSnO thin-film transistors for next-generation integrated circuits   |  |   |   |
| 09:10-09:50 | <b>P11 - M. Lewandowska</b> , A. Roguska, A. Majchrowicz<br>Titania nanotubes as functional oxides for biomedical applications   |  |   |   |
| 09:50-10:30 | <b>P12 - S. E. Pratsinis</b><br>Enhancing Gas sensor selectivity by pre-separation & orthogonal arrays   |  |   |   |
| 10:30-11:00 | <b>Coffee break</b>  |  |   |   |
|             | <b>TCM Session 3A (Imperial Main)</b><br>Chairs: J. E. Medvedeva / A. J. Flewitt   | <b>TCM Session 3B (Imperial 1)</b><br>Chairs: C. Baratto / L. Tsetseris  | <b>BS Session 3A (Imperial 2)</b><br>Chairs: Y. Magari / C. Drosos  | <b>BS Session 3B (Imperial 3)</b><br>Chairs: H. Kawarada / H. Umeda   |
| 11:00-11:30 | <b>TCM-17.ID-226</b><br><b>A. Subrahmanyam</b> , D. Kumar<br>Surface modification of transparent conductive oxide (TCO) thin films- measurement of surface work function by Non-contact and Non-destructive Kelvin Probe technique: A Review | <b>TCM-110.ID-67</b><br><b>N. Münzenrieder</b><br>Scaling and AC performance of flexible oxide thin-film transistors   | <b>BS3-11.ID-191</b><br><b>M. Osada</b><br>2D oxides: Exploring new flatland  | <b>BS1-17.ID-48</b><br><b>M. Kasu</b><br>Diamond field-effect transistors for RF power applications   |
| 11:30-12:00 | <b>TCM-18.ID-224</b><br><b>M. Weidner</b><br>Recent developments in photoemission (XPS/UPS/ARPES) characterization techniques for TCM research   | <b>TCM-111.ID-247</b><br><b>L. Pereira</b> , I. Cunha, P. Grey, D. Gaspar, E. Fortunato, R. Martins<br>Functional cellulose materials enabling oxide based electronic and photonic devices                   | <b>BS3-12.ID-16</b><br><b>N. Yamada</b> , Y. Kondo, R. Ino, T. Kondo<br>Transparent P-type semiconducting CuI and its application to self-powered ultraviolet photodetectors  | <b>BS1-18.ID-189</b><br><b>I. Grzegory</b><br>Phase diagrams and bulk crystallization of GaN  |
| 12:00-12:10 | <b>TCM-O11.ID-11</b><br><b>K. Murakami</b> , A.M.S.L.B. Attanayake, M. Okuya<br>Synthesis and characterization of Ga doped ZnO nanorod arrays by using advanced spray pyrolysis method of rotational, pulsed and atomized                    | <b>TCM-O16.ID-150</b><br><b>M. Theelen</b><br>An overview of the damp heat stability of Al:ZnO for CIGS solar cells  | <b>BS3-13.ID-28</b><br><b>K. Ueda</b><br>Luminescence and energy levels of Tb <sup>3+</sup> in CaZrO <sub>3</sub> :Tb <sup>3+</sup> films prepared by pulsed laser deposition | <b>BS1-19.ID-44</b><br><b>F. Horikiri</b> , H. Fujikura, Y. Narita, T. Yoshida<br>Recent progress in growth and characterization technologies for next generation GaN-on-GaN vertical devices |
| 12:10-12:20 |  |  |   |   |
| 12:20-12:30 | <b>TCM-O12.ID-72</b><br><b>M. Grundmann</b> , C. Yang, E. Rose, M. Kneiß, P. Schlupp, Z. Zhang, H. von Wenckstern, M. Lorenz<br>Towards high performance p-Type transparent conductors with copper iodide                                    | <b>TCM-O17.ID-106</b><br><b>P. Ashcheulov</b> , A. Taylor, V. Mortet, A. Kovalenko, H. Krýšová, L. Kavan, K. Sivula<br>Optically transparent diamond thin-film electrodes for energy conversion applications |   |   |
| 12:30-12:40 |  |  |   |   |
| 12:40-14:00 | <b>Group photograph</b><br><b>Lunch</b>  |  |   |   |

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|             | <b>Imperial Main</b><br>Chairs: M. Lewandowska / S.Y. Lee   |  |   |  |
| 14:00-14:40 | <b>P13 - R. J. Nemanish</b> , R. Hathwar, M. Benipal, M. Dutta, F. A. M. Koeck, M. Malakoutian, M. Saremi, S. Chowdhury, S. M. Goodnick<br>Diamond power electronics for high current and high temperature operation                  |  |   |  |
| 14:40-15:20 | <b>P14 - M. Syväjärvi</b> , V. Jokubavicius, J. Sun<br>Silicon carbide as an active optoelectronic material   |  |   |  |
| 15:20-16:00 | <b>P15 - P. J. Wellmann</b><br>Power electronic semiconductor materials for energy saving applications: SiC, GaN, Ga <sub>2</sub> O <sub>3</sub> and diamond  |  |   |  |
| 16:00-16:30 | Coffee break  |  |   |  |
|             | TCM Session 4A (Imperial Main)<br>Chairs: L. Pereira / N. Münzenrieder  | TCM Session 4B (Imperial 1)<br>Chairs: A. Subrahmanyam / M. Weidner  | BS Session 4A (Imperial 2)<br>Chairs: D. Koretomo / Y. Magari   | BS Session 4B (Imperial 3)<br>Chairs: K. Shiojima / V. Müller  |
| 16:30-17:00 | <b>TCM-I9.ID-206</b><br><b>L. Tsetseris</b><br>Metal thio- and seleno-cyanates as transparent conductive materials  | <b>TCM-I12.ID-233</b><br><b>J. E. Medvedeva</b><br>Combinatorial investigations of amorphous Zn-Sn-O: Theory and experiment  | <b>BS3-I4.ID-31</b><br><b>T. Yanagida</b><br>Single crystalline metal oxide nanowires   | <b>BS1-I10.ID-184</b><br><b>J. Liu</b> , Y. Koide<br>Depletion-/enhancement-mode hydrogenated-diamond MOSFETs and MOSFET logic circuits  |
| 17:00-17:10 | <b>TCM-O13.ID-41</b><br><b>C. Prieto</b> , M. Morán-Pedroso, J. Sánchez, A. de Andrés<br>Optical and electrical properties of fluorinated tin oxide (FTO) films deposited at room temperature by using hydrogen in the sputtering gas | <b>TCM-O18.ID-98</b><br><b>D. Papadaki</b> , G. Kiriakidis<br>Photocatalytic TiO <sub>2</sub> incorporated in different building matrices  | <b>BS3-I5.ID-145</b><br><b>K. Kinoshita</b><br>Improving memory performance based on characterization of filament growth in resistive switching memories  | <b>BS1-I11.ID-186</b><br><b>D. Eon</b> , J. Letellier, G. Chicot<br>Business development from diamond epitaxy to Schottky diode for power electronic application   |
| 17:10-17:20 |   |  |   |  |
| 17:20-17:30 | <b>TCM-O14.ID-126</b><br><b>J. Purans</b> , M. Zubkins, J. Gabrusenoks, K. Vilnis, H. Arslan, R. Kalendarev, A. Azens<br>Zinc oxide thin film deposition by magnetron sputtering at cryogenic substrate temperatures                  | <b>TCM-O19.ID-143</b><br><b>M. Wejna</b> , M. Baranowski, L. Janicki, W. Linhart, R. Kudrawiec, K. Yu, W. Walukiewicz<br>Towards multicolor emission from transparent ZnO <sub>1-x</sub> Se <sub>x</sub> highly mismatched alloy |   |  |
| 17:30-17:40 |   |  | <b>BS3-I6.ID-185</b><br><b>H. Tabata</b> , Y. Kuranaga, H. Matsui<br>Strong light confinements coupled with surface plasmons in the hetero layers of Ga <sub>2</sub> O <sub>3</sub> -ZnO thin films | <b>BS1-I12.ID-238</b><br><b>Y. Otoki</b> , F. Horikiri, T. Yoshida, M. Shibata, Y. Narita, H. Fujikura<br>Usefulness of using high quality VAS-GaN substrates for realizing high performance of electric devices |
| 17:40-17:50 | <b>TCM-O15.ID-77</b><br><b>N. M. Le</b> , C-S Lee, B-T Lee<br>Influence of annealing on the properties and defect chemistry of un-doped and In-doped CdO films  | <b>TCM-O20.ID-182</b><br><b>P. Carroy</b> , D. Muñoz, F. Métral, H. Fournier, J. Veirman, P. Lefillastre<br>Transparent conductive oxides for silicon heterojunction solar cells   |   |  |
| 17:50-18:00 |   |  |   |  |
| 21:00-22:00 | TCM Networking / Matchmaking  |  |   |  |