

### Poster Session III: Materials Science and Engineering

| DOCID  | Author             | TITLE   |
|--------|--------------------|---|
| 235752 | Bouziyani Ilyas    | High Curie temperature in halfmetallic ferromagnets (Zn, Cr, Ti)Se and (Zn, Cr, Ti)Te for spintronic devices: Ab initio and Monte Carlo treatments                  |
| 235753 | Bouziyani Ilyas    | Half-metallic ferromagnetic behavior in (Ga, Cr)N and (Ga, Cr, V)N compounds for spintronic technologies: Ab initio and Monte Carlo methods                         |
| 235771 | Naiba Kaltoum      | Melissa officinalis essential oil as a novel eco-friendly corrosion inhibitor of mild steel in 1.0 M HCL medium   |
| 235772 | Tahiri Mohamed     | Structural properties and spontaneous polarization behaviour in cu-doped LiTaO3   |
| 235792 | Aithssi Abderrahim | Study of effect of pH on the properties of p-Cu2O thin films by linear-sweep voltammetry  |
| 235825 | Boukendil Mohammed | Numerical study of coupled heat transfer through a double hollow brick walls  |
| 235863 | Boukendil Mohammed | Effect of heating element geometry and radiation on thermal transfer in a cubical cavity  |
| 235866 | Bendaraa Anass     | Numerical study of natural convection in a periodically heated square cavity filled with nanofluid in the presence of fins attached to walls in different locations |
| 235873 | El Azrak Hicham    | Surface morphology study during homoepitaxial growth of copper by molecular dynamics simulation   |
| 235927 | Etrini Ayoub       | Structural, electronic and optics studies of two-dimensional materials  |
| 235935 | Said Sair          | Development of a new eco-friendly composite material based on date palm fibers reinforced recycling polystyrene matrix  |
| 235970 | Elkebach Ali       | Dusty Plasma: The mechanism of dust formation   |
| 235976 | Elidrysy Anouar    | ANISOTROPY EFFECT IN 3D EXTENDED ISING MODEL  |
| 235988 | Chahmout Hoyam     | Investigation of phtalazine derivatives as corrosion inhibitor of stainless steel in sulfuric acidic environment: electrochemical and thermodynamique               |
| 236008 | Mighouar Zakaria   | Effect of transported fluid on the integrity of pipelines subjected to dynamic loads  |
| 236009 | Ramzi Zahra        | Effects of SrO/Bi2O3 on structure and properties of UV-transmitting phosphate glass   |
| 236013 | Tanasehte Mohammed | The effect of the matrix-fiber interaction on the failure process in composite materials  |
| 236019 | Eddiai Fouad       | Study the diffusion of system Au4/Ag(110) by molecular dynamics simulation  |
| 236027 | Bettach Mohammed   | EPR, Specific magnetic heat and magnetostructural correlation of the diphosphate ZnMnP2O7   |
| 236030 | El Bhilat Hanan    | Damage assessment in post- consumer High impact polystyrene from disposable cups: Influence of the number of processing cycles on the thermomechanical properties.  |

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| <b>236037</b> | <b>Hilal Mohamed</b>        | Effect of the rod diameter on the friction force for U-cup hydraulic rod seals using a new numerical approach  |
| <b>236050</b> | <b>Oulguidoum Abdeladim</b> | Chemical synthesis and characterization of sulfonated hydroxyapatite nanocomposites for cadmium detection in water   |
| <b>236055</b> | <b>El Jouad Zouhair</b>     | Open circuit voltage of organic photovoltaic cells using fullerene as acceptor: variation with the donor   |
| <b>236070</b> | <b>Benzineb Meryem</b>      | structure and thermal stability of phosphate glasses in the MoO <sub>3</sub> -CoO-P <sub>2</sub> O <sub>5</sub> system   |
| <b>236071</b> | <b>Jabri Maria</b>          | Physicochemical and morphological characterization of bio-composites materials with polystyrene matrix   |
| <b>236082</b> | <b>Erradi Amine</b>         | Study of aging mechanisms and modeling of supercapacitors for electric vehicle applications  |
| <b>236089</b> | <b>Ennaji Abderrazak</b>    | Etude De Comportement Mécanique à La Rupture De l'ABS  |
| <b>236100</b> | <b>Chrafi Younes</b>        | The diamagnetic susceptibility and polarizability of a shallow magneto-donor in an inhomogeneous (GaAs/GaAlAs) Quantum Box in the presence of external excitations |
| <b>236109</b> | <b>Bouragba Fatimazahra</b> | Electric and dielectric behavior of sulfate intercalated zn-cr layered double hydroxide investigated by impedance spectroscopy                                     |