

CONTENTS

2021, Vol. 13, No 1

Myronyuk I.F., Kotsyubynsky V.O., Boychuk V.M., Mykytyn I.M., Gun'ko V.M. , Photocatalytic Properties of Sn-doped TiO ₂	01001(5)
Bezougly A.V., Petchenko O.M., Petchenko G.O. , Photon Flux Density in the Diffraction Pattern During Scattering of H-polarized Photons by the Infinite Grating of Metallic Strips.....	01002(4)
Brailo M.V., Buketov A.V., Yakushchenko S.V., Sapronov O.O., Dmytriiev D.O., Buketova N.M. , Development of Epoxy-polyester Nanocomposite Materials with Improved Physical and Mechanical Properties for Increasing Transport Vehicle Reliability.	01003(5)
Mali A.E., Gaikwad A.S., Borse S.V., Ahire R.R. , Influence of Mn ²⁺ Magnetic Ions on the Properties of Cd _{1-x} Mn _x S Thin Films Synthesized by Chemical Bath Deposition.....	01004(5)
Kumar S. Ashok, Pravin J. Charles , Influence of Tunable Work Function on SOI-based DMG Multi-channel Junctionless Thin Film Transistor.....	01005(4)
Samanta P.K., Kamilya T. , Environment-Friendly Synthesis of Undoped and Cu doped ZnO Nanoparticles and Study of their Optical Absorption Properties towards Biological Applications.....	01006(3)
Farhadi B., Zabihi F., Zhou Y., Liu A. , A Theoretical Survey on the Potential Performance of a Perovskite Solar Cell Based on an Ultrathin Organic-Inorganic Electron Transporting Layer.....	01007(6)
Benamrani A., Daoud S., Saini P.K. , Structural, Elastic and Thermodynamic Properties of ScP Compound: DFT Study	01008(5)
Chala S., Boumaraf R., Bouhdjar A.F., Bdirina M., Labed M., Taouririt T.E., Elbar M., Sengouga N., Yakuphanoglu F., Rahmene S., Naoui Y., Benbouzid Y. , Synthesis and Characterization of ZnO Thin Film for Modeling the Effect of Its Defects on ZnO/Cu ₂ O Solar Cell EQE.....	01009(6)
Tovkach S.S. , Behavior of the Aviation Engine Control System during the Transition to the Lorenz Attractor.....	01010(5)
Khaldi A., Benallou Y., Zemouli M., Amara K., Keurti M. El , First Principle Study and Optimal Doping for High Thermoelectric Performance of Ta _X Sn Materials (X = Co, Ir and Rh)	01011(7)
Buryk I.P., Odnodvorets L.V., Khyzhnya Ya.V. , Simulation of Parameters of Coaxial Solar Cells Based on Si and InP Nanowires	01012(5)
Suthar R.K., Pandya N.Y., Mevada Adwait D., Gajjar P.N. , Lattice Dynamic and Thermo-physical Properties of AlSi (Silumine) Alloy: A DFT Study	01013(6)
Dayana K. Sofiya, Jothimani R., Vella Durai S.C. , Green Synthesis of Copper Oxide Nanoparticles from <i>Catharanthus Roseus</i> Plant Leaf Extract and Its Investigation	01014(5)
Bora Pronami, Pardhasaradhi P., Madhav B.T.P. , Design of Microstrip Patch Antenna Based on FSS for 5G and WiMAX Applications.....	01015(4)

Babu K. Teja, Sri Kavya K.Ch., Kotamraju Sarat K., Tilak G.B.G., Analysis of CSRR Based Circular Patch Monopole Antenna for Ku-band Satellite Communication Applications, C-band and X-band Applications	01016(5)
Vidhate Ashok.D., Suman Shruti, Single Electron Transistor Based Current Mirror: Modelling and Performance Characterization	01017(5)
Borodinova T.I., Styopkin V.I., Vasko A.A., Cherepanov V.V., Kravets V.G., Growth of Gold Nanostructures on the MoS ₂ Surface Modified with Polyvinylpyrrolidone	01018(4)
Lukiyanets B.A., Matulka D.V., Layered Crystals as Porous Materials: the Effect of Ultra-sonic Treatment	01019(5)
Shpetnyi I.O., Tyschenko K.V., Pak V.Ya., Duzhiy B. V., Shkurdoda Yu.O., Protsenko I.Yu., Structural-phase State and Magnetotransport Properties of Thin Film Alloys Based on Permalloy and Copper	01020(6)
Kherief N., Latreche S., Lakhdara M., Boulgheb A., Contrand C., Effect of Trench Isolation on the Self-heating Phenomenon in Advanced Radio Frequency SiGe Heterojunction Bipolar Transistor.....	01021(5)
Dvuzhilova Yu.V., Dvuzhilov I.S., Belonenko M.B., Extremely Short Optical Pulses in a Photonic Crystal Made of Carbon Nanotubes	01022(4)
Chongad L.S., Jain Amit, Mukherjee G.S., Banerjee M., Optical Properties of CuS Nanoparticles Embedded in Polyvinyl Alcohol (PVA) Films	01023(4)
Krishna P. Hari, Jagwani Devaanshi, Ramrakhiani Meera, Theoretical Study of Photoluminescence Emission Using the Line Shape Function for Semiconductor Quantum Dots ..	01024(4)
Basnet Parita, Samanta Dhrubajyoti, Chatterjee Somenath, Chemical Approach Based ZnS-ZnO Nanocomposite Synthesis and Assessment of Their Structural, Morphological and Photocatalytic Properties	01025(4)
Mangavati Suraj, Rao Ashok, Devadiga Dheeraj, Selvakumar M., Saxena Monika, Okram G.S., Investigation of Electrical and Thermoelectric Properties of ZnO/rGO Composites Prepared by Conventional Solid-state Reaction Method	01026(4)
Sahu Rajesh, Jain S.K., Tripathi Balram, Synthesis and Characterization of Multiwalled Carbon Nanotubes (MWCNTs) Dispersed ZnS Based Photocatalytic Activity	01027(4)
Kumar Yogesh, Tripathi J., Sharma A., Magnetic Properties of Ni Thin Films Deposited on to Polystyrene Nanospheres	01028(4)
Harish, Kumar Pushpendra, Kumari Jyoti, Phalswal Priyanka, Khanna Pawan K., Salim Amena, Singhal Rahul, Kumar Mukhopadhyay Anoop and Joshi Rajendra P., Influence of Impurity on the Properties of Chemically Synthesized Calcium Hydroxide	01029(5)
Nathawat Rashi, Kumawat Ashish K., Rathore Satyapal S., Mukhopadhyay Anoop K., Kabra K., Effect of Heat Treatment on Band Gap of V ₂ O ₅	01030(5)
Rai Sadhna, Bhujel Rabina, Gupta Amrita, Swain Bibhu Prasad, Biswas Joydeep, In-situ Synthesis of Mixed Vanadium (IV and V) Oxides/Reduced Graphene Oxide Using <i>Centella asiatica</i> Extract	01031(3)
Information for authors	I-1