

CONTENTS

2022, Vol. 14, No 4

- Shedam Rakesh M., Kashid Priyanka P., Shedam Mahadev R., Gadkari Ashok B., Kamble Pradip D., Mathad Shridhar N.,** Synthesis and Characterization of Nd³⁺ Doped Mg-Cd Ferrite (Mg_{0.5}Cd_{0.5}Nd_{0.01}Fe_{1.99}O₄) Nanoparticles Prepared in the Form of a Thick Film for Gas Sensing Applications04001(4)
- Mali Ashok E., Gaikwad Anil S., Borse Sanjay V., Ahire Rajendra R.,** Structural, Optical and Magnetic Properties of Cd_{1-x}Mn_xS Nanocrystalline Thin Films at Room Temperature..04002(5)
- Boledzyuk V.B., Kovalyuk M.Z., Ivanov V.I.,** Magnetic Properties of Co_{0.1}Sb₂Te₃, Ni_{0.1}Bi₂Te₃ and Ni_{0.2}In₄Se₃ Compounds04003(3)
- Okba Fouad, Mezouar Rabie,** Some Physical Parameters of Calcium Chalcogenides at High Pressures: Semi-Empirical Approach.....04004(4)
- Raibaruah A.K., Sarma K.C.D.,** An Analytical Model for the Depletion Region Width and Threshold Voltage of a Parallel Gated Junctionless Field Effect Transistor04005(5)
- Abboudi A., Boulahrouz S., Mansouri K.,** Transient 3D Thermomechanical Simulation of the Frictional Contact of the Pin-on-Disc System04006(5)
- Mygal V.P., Mygal G.V.,** Heuristic Modeling of NBIT Capabilities: Cognitive Aspects.....04007(5)
- Matkovska L.K., Demchenko V.L., Shtompel V.I., Matkovska O.K.,** Structure and Properties of Electroactive Composites Based on Oligomers of Different Molecular Weight Doped with Lithium Perchlorate Salt.....04008(5)
- Vimala P., Bhoomi Reddy Venkata Sravanthi Reddy, Shreyas Yadav V.R, Suprith C.,** The Study of Hetero Dielectric Buried Oxide and Heterojunction Dual Material TFET.....04009(4)
- Lopushanska B.V., Azhniuk Y.M., Studenyak I.P., Lopushansky V.V., Gomonnai A.V., Zahn D.R.T.,** Optical Characterization of Colloidal AgInS₂ Quantum Dots Synthesized from Aqueous Solutions.....04010(6)
- Benkrima Y., Souigat A., Soudani M.E., Achouri A., Korichi Z., Bougoffa M.S.E.,** Structural, Magnetic and Optical Properties of PtAu_n (n = 1-9) Clusters Using Density Functional Theory04011(5)
- Yatsenko I.V., Antonyuk V.S., Vashchenko V.A., Gordienko V.I., Kolinko S.O., Butenko T.I.,** Determination of Optimal Modes of Electron-Beam Micro-Treatment of Surfaces in Optic Elements04012(7)
- Upasani Devashri P., Tarkas Hemant S., Sali Jaydeep V.,** Preparation of Perovskite: Fullerene Bulk Heterojunction Using a Surfactant Free Microemulsion Scheme. Modeling, Simulation and Experimental Studies04013(5)
- Korichi Z., Souigat A., Benkrima Y., Meftah M.T.,** Treatment of Nonlinear Electrical Circuits by the Caputo-Fabrizio Derivative04014(5)
- Kukurudziak M.S.,** Formation of Dislocations During Phosphorus Doping in the Technology of Silicon *p-i-n* Photodiodes and their Influence on Dark Currents04015(6)
- Tkachuk I.G., Orletskii I.G., Ivanov V.I., Zasloukin A.V., Kovalyuk Z.D.,** Photosensitive CuFeO₂/n-InSe Heterojunctions04016(5)

Azhniuk Y.M., Gomonnai A.V., Hutych Yu.I., Lopushansky V.V., Zahn D.R.T., Optical Characterization of CdSe _{1-x} Te _x Nanocrystals Grown in Borosilicate Glass.....	04017(6)
Onyshchenko V.F., Kinetics of Excess Carrier Distribution in Bilateral Macroporous Silicon with Different Thickness of Porous Layers	04018(5)
Gosavi S.R., Annealing Effect on the Physical Properties of Chemically Prepared Cu _{2-x} Se Films.....	04019(4)
Brajpuriya R., Evolution of Magnetic Order in Nanocrystalline Fe _{1-x} Al _x Alloy.....	04020(5)
Protsenko I.Yu., Odnodvoretz L.V., Vasyukhno M.V., Klochok V.S., Rylova A.K., Shumakova N.I., Concentration Effects in the Electronic Properties of High-entropy Film Alloys.....	04021(4)
Brajpuriya Ranjeet, Gupta Rajeev, Vij Ankush, Kumar Ashish, Jani Snehal, TEM and XPS Study of Ball-Milled Fe _{1-x} Al _x Alloys	04022(4)
Dolgoshey V.B., Fesenko O.M., Tsebriinko T.V., Klochek A.V., Ponomarenko S.M., Semchenko A.V., Sidsky V.V., Effect of Isovalent Substitution of Bi Cations by La Cations on the Crystal Structure and Thermodynamic Properties of Nanocomposites Based on Bismuth Ferrite	04023(5)
Yuldasheva N., Nosirov M., Matboboeva S., Gulomov J., Semi-Empirical Plasmon Coefficients of Metals for Nanoplasmonics.....	04024(3)
Sonawane A.U., Sonawane B.K., The Effect of Different Concentrations of Tellurium on the Structural and Optical Properties of ZnO Nanostructured Films Deposited by Sol-Gel Method.....	04025(4)
Ergashov Y.S., Donaev S.B., Distribution of Molybdenum Atoms over Depth of the Surface Layer of a Niobium Single Crystal Produced by Ion Bombardment	04026(3)
Mostefai A., Basic Characteristics of Gallium Indium Arsenide Antimonide (Ga _x In _{1-x} As _y Sb _{1-y}) Semiconductors Using MATLAB.....	04027(4)
Mostefai A., Comparison Between Silicon (Si) and Gallium Arsenide (GaAs) Using MATLAB ...	04028(4)
Alam Syah, Surjati Indra, Sari Lydia, Ningsih Yuli Kurnia, Astuti Dian Widi, Firmansyah Teguh, Zakaria Zahriladha, Shairi Noor Azwan, Bandwidth Enhancement and Circular Polarization Microstrip Antenna Using <i>L</i> Slot and Rectangular Parasitic Stacked	04029(5)
Minakova K.A., Zaitsev R.V., Biaxial Heat Balance Model of a Solar Collector.....	04030(4)
Kirichenko M.V., Drozdov A.N., Shkoda D.S., Zaitsev R.V., Khrypunov G.S., Minakova K.O., Nikitin V.O., Study of Fast Switching Processes in Cadmium Telluride Based Structures.....	04031(4)
Sid N., Boulahrouz S., Saoudi A., Chahaoui O., Mansouri K., Numerical Studies of Thermal Management of Multiple Electronic Devices Using Metal Foam Heat Sinks	04032(6)
Malik Syed A., Naning Fatin Hana, Surface Morphology Investigation during In-situ CdS Nanoparticles Growth in Hybrid P3HT:SA Films via Gas Exposure Technique.....	04033(4)
Volchenko D.A., Kindrachuk M.V., Volchenko N.A., Savchin M.V., Savchin Y.M., Bolony T.V., Thermoelectric Coolers with Friction Steam Brakes.....	04034(4)
Information for authors.....	I-1