

CONTENTS

2023, Vol. 15, No 4

Zahornyi M.M., Lavrynenko O.M., Kolomys O.F., Strelchuk V.V., Tyschenko N.I., Korniienko O.A., Ievtushenko A.I., Modern Photoactive Nanocomposites Based on TiO ₂ and CeO ₂	04001(6)
Bondar I.I., Suran V.V., Minya O.Y., Shuaibov O.K., Shevera I.V., Malinina A.O., Krasilnits V.N., Synthesis of Surface Structures at Laser-Stimulated Evaporation of a Copper Sulfate Solution in Distilled Water.....	04002(7)
Klochko N.P., Barbash V.A., Petrushenko S.I., Kopach V.R., Shepotko Y.M., Dukarov S.V., Sukhov V.M., Yashchenko O.V., Khrypunova A.L., Flexible Environmentally Friendly Thermoelectric Material Made of Copper (I) Iodide and Nanocellulose for Green Energy.....	04003(7)
Buketov A.V., Dyadyura K., Strelchenko V.Yu., Shulga Yu.M., Kulinich S.O., Hrebenyk L., Kindrachuk M.V., Sustainable Transport Reliability: Exploring the Creep of Eco-Friendly Polymer Nanocomposites.....	04004(7)
William P., Jawale M.A., Pawar A.B., Korde S.K., Rakshe D.S., Deshpande N., Investigation of the Electronic and Optical Properties of Nanostructured Glasses and Composites.....	04005(5)
Sethy N.K., Yenugula M., Goswami S.S., Bhola A., Behera D.K., Selection of Ideal IoT Based Overhead Conductor for Optimizing the Performance of a Small Hydropower Project.....	04006(5)
William P., Chhabra G.S., Choubey A., Choubey S., Yuvaraj S., Investigation of Novel Processes in the Physics of Condensed Matter: Recent Advances and Applications	04007(5)
Geetha A., Sridhar R., Suresh P., Usha S., Thentral T.M.T., Design of Controller for Bidirectional Non-isolated High Gain Converter in EV Application	04008(4)
Deshpande N., Sharma S.K., William P., Pawar A.B., Empirical Analysis of the Emerging Trends in the Photovoltaic Technologies of Condensed Matter Physics	04009(6)
William P., Yawalkar P.M., Paithankar D.N., Pabale A.R., Kolhe R.V., Deshpande N., Green Synthesis Methods of Nanostructures for Environmental and Biomedical Applications.....	04010(6)
Indhuja N.H., Sathiyapriya T., Gurunathan V., Monasri A., Sathish K.S., Selvaraj V., Design of High Gain Compact Microstrip Patch Antenna at ISM Band.....	04011(4)
Roubhi R., Bendaoued M., Es-saleh A., Lakrit S., Das S., Atounti M., Faize A., Design and Optimization of a Bowtie Antenna for Ground Penetrating Radar (GPR) System	04012(4)
Kalaiarasi M., Dwivedi R.P., Wideband High Gain Antenna Using a Slot Loading and FSS for 5G Application.....	04013(5)
Bendaoued M., Es-saleh A., Nasiri B., Lakrit S., Das S., Mandry R., Faize A., Design of a Planar Multi-band Antenna Array based on Split Ring Resonator for WiMAX and 5G Sub-6GHz Applications	04014(4)
Pawar A.B., Korde S.K., Rakshe D.S., William P., Jawale M.A., Deshpande N., Analysis of Silver Nanoparticles as Carriers of Drug Delivery System.....	04015(5)

Chandrappa S., Guru Prasad M.S., Naveen K.H.N., Praveen G.J., Kumar M.A., Kukreti A., Detection of Transmission Control Protocol XMAS Attack Using Pattern Analysis with MONOSEK	04016(4)
Kumawat S., Poonia L., Homogeneous Barotropic String Cosmology Model of Bianchi Type IV0 in General Relativity	04017(4)
Kumawat S., Poonia L., Inflationary Cosmological Model of Bianchi Type II in General Relativity	04018(5)
Pabale A.R., Kolhe R.V., William P., Deshpande N., Paithankar D.N., Yawalkar P.M., Smart Crack Detection System Using Nanostructured Materials with Integrated Optimization Technology	04019(5)
Mishra A., Nigam M.K., Design and Analysis of Properties MASnI ₃ Nanostructures Doped with Cu ₂ O	04020(5)
Bhunias S., Gupta N., Kumari N., Bhargava J., Roy A., Tewari T., Maity S., Study and Analysis on Compactness of Patch Antenna Utilizing Ground Plane with U Slot	04021(4)
Kumar A., More C., Shinde N.K., Muralidhar N.V., Shrivastava A., Krishna Reddy C.V., William P., Distributed Electromagnetic Radiation Based Renewable Energy Assessment Using Novel Ensembling Approach	04022(5)
Chiranjivi M., Obulesu D., Loganathan G.B., Kayalvili S., Naregalkar P., Krishna Reddy C.V., William P., A Novel Optimization Approach for Smart Grid Systems with Nano-sized Objects	04023(6)
Bendaoued M., Es-saleh A., Nasiri B., Lakrit S., Das S., Mandry R., Faize A., Design of a UWB Coplanar Antenna with Step Graded Ground Plane for 5G and Modern Wireless Communication Applications	04024(4)
Fanani N., Murwani I.K., Kurniawan F., Study of Cobalt Nanoparticle Modified Gold Electrode	04025(4)
Dhole A., Shende T., Extract of Biomaterial as Admixture for Internal Curing Agent for Concrete	04026(6)
Gomathi R.M., Jeyabharathi M., Islam T., Kumutha D., Jayanthi K., Devi R.D.H., Devipriya V., Design of an Integrated mm-Wave and Sub 6GHz Antenna for 5G Mobile Devices	04027(5)
Rawat A., Maurya S., Nath P., Panwar S., Low Energy Based Optimization for IoT Applications Using Super Nodes in Sensor Network	04028(5)
Maheshwari V., Poonia L., Bianchi Type V Inflationary Cosmological Model with Bulk Viscosity in General Relativity	04029(3)
Meskini N., Aghoutane B., Hiddar H., Islam T., El Ghzaoui M., El Faylali H., Modeling a Square Slotted Antenna for 5G Applications using an Equivalent Circuit Approach	04030(5)
Sengar S., Malik P.K., Reddy V.S., Das S., Design of a Novel Capsule-Shaped Compact UWB Antenna for 5G Wireless Applications	04031(5)
Balaji M., Kumar S.A., Analysis of Charge Plasma Based Hetero Junction Nanowire Multi Channel Field Effect Transistor for Sub 10 nm	04032(4)

Sergeyev D., Shunkeyev K., Zhanturina N., Solovjov A.L., Modeling the Destruction of the <i>p-n</i> Junction by Electromagnetic Pulses	04033(6)
Shpetnyy I., Plecenik T., Shabelnyk Yu., Shkurdoda Yu., Shvets U., Nakonechna I., Vorobiov S., Kravets A., Effect of Magnetic Field on the Morphology and Structural Characteristics of Cobalt-based Thin Film Systems as Sensitive Sensor Elements	04034(6)
Efremenko B.V., Chabak Yu.G., Tsvetkova E.V., Dzherenova A.V., Efremenko V.G., Kromka F., Zurnadzhly V.I., Olejnik I.M., Surface Laser Melting of a Carburized LPBF-Manufactured Ti-based Biomedical Grade Alloy	04035(6)
Leiko O.H., Derepa A.V., Bogdanov O.V., Kolesnyk V.V., Dynamic Properties of Radioelectronic Elements in the Form of Piezoceramic Cylinders with Internal Screens	04036(9)
Polishchuk A.V., Pavlyuk M.O., Tarasenko A.V., Zhurakulov V.V., Interface for Semi- automatic Image Contrast Enhancement in the Propagation-based X-ray Phase Contrast Method	04037(6)
Kindrachuk M.V., Volchenko D.O., Zhuravlev D.Yu., Ostashuk M.M., Kachmar R.Ya., Thermoelectric Generators Current Intensifiers	04038(6)
Gaid A.S.A., Ali M.A.M., Design and Simulation of a Compact Microstrip Antenna for 5G Applications at the (37 – 40) GHz Band	04039(5)
Information for authors	I-1