

CONTENTS

2025, Vol. 17, No 1

Belyavina N.M., Kuryliuk A.M., Zavodyannyi V.V., Semenko M.P. , Features of the Electronic Structure of TiC and VN Phases of the Mechanically Alloyed Equimolar TiC-VN Blend	01001(7)
Labdelli B., Boucheham A., Benharrat L., Djelloul A., Chahinez N., Alloun M., Lamri S.Y. , Effect of SiN/SiO ₂ Passivation Layers on Diffused Front Surface Field in n-type Silicon Wafers.....	01002(7)
Boussida Y., Aoun Y., Djilani N., Djelloul A. , Fabrication and Characterization of Nanostructured NiO and NiO:Cu Thin Films at Varied Copper Concentrations.....	01003(8)
Touati S., Boumediri H., Mansouri K., Chitour M., Reffas O., Karmi Y., Boumediri K., Zemmouri A. , Optimization of Cutting Conditions for the Metallic Surfaces of 50CrNi3Mn Alloy Steel Using Box-Behnken Design, ANOVA, and Desirability Function (Box-ANOVA-DF)	01004(6)
Gupta A., Saxena P., Sharma K., Kumar M., Bhardwaj D. , Optimized Electromagnetic Gap Coupled Arrays of E-shaped Microstrip Patch Antenna with Air Gap for Wireless Communication.....	01005(5)
Rao N.N., Naresh P. , Ultrasonic Sensor System for Autonomous Parking	01006(5)
Askarov M.A., Imamov E.Z., Karimov Kh.N. , Research of Electrophysical Processes in a Silicon Solar Cell with Many Surface Nanoheterojunctions	01007(5)
Najim S.A., Muhammed K.M. , Study of Electrical Conductivity and Raman Spectra of CdSe Nanoparticles Irradiated by CO ₂ Laser.....	01008(4)
Perugu S., Kiran G.B., Bbau T.A., Raghavaiah B.V. , Structure, Morphology, and Multiferroic Properties of Bi _{0.2} La _{0.8-x} Al _x FeO ₃ ($x = 0.2, 0.4, 0.6 \& 0.8$) Nanoparticles.....	01009(6)
Hossain F., Hossain A.K.M.Z., Ibrahimy M.I., Al-Gburi A.J.A. , Multi-Circled Planar MIMO Antenna on Flexible Substrate for 5G Applications	01010(6)
Olimov L. , Structural Models and Charge Transfer Processes of Granulated Nano Semiconductors.....	01011(5)
Hamadou A., Thobel J.-L. , Modeling of Surface-Emitting Terahertz Quantum Cascade Laser Based on Difference Frequency Generation	01012(6)
Korotun A.V., Shylo S.I., Reva V.I., Titov I.M. , Improvement of the Physical and Technical Characteristics of the Thin-Film Solar Cells under their Modification by the Plasmonic Nanoparticles.....	01013(8)
Berka M., Mahdjoub Z. , Analysis and Modeling of a New H-C Shape Non-Periodic Metamaterial Resonator (HC-SRR) for Multi-band Applications	01014(5)
Smitiukh O.V., Yanchuk O.M., Marchuk O.V., Khmaruk Ju.O., Yatsyshyn M.M., Vyshnevskyi O.A., Velymchanitsa I.I. , Electrochemical Synthesis of Zinc Oxide in the Presence of Surfactant FARMACOAT.....	01015(5)
Melnik O.S., Kozarevych V.O., Kushnirenko Y.M. , Automated Programming of Micro- and Single Electron Nanosystems	01016(6)
Syrotyuk S.V., Hussain M.K., Nakonechnyi R.A. , Changes in the Electronic Structure of a Wurtzite Solid Solution Mn:ZnSeS Caused by Vacancies of Sulfur Atoms.....	01017(6)

Boucetta F., Belmokre K., Djani F., Boumehraz M.-A., Goudjil K. , Impact of Bath Temperature on the Morphology, Composition, and Corrosion Resistance of Cerium Oxide Coatings Electrodeposited on Zinc	01018(5)
Divya, Goel N., Rani R., Usmani H. , An Improved Low Power Sense Amplifier Using Level Restoration Technique at 32 nm Technology	01019(5)
Buketov A.V., Dyadyura K., Shulga Yu.M., Sotsenko V.V., Hrebenyk L., Totosko O.V., Kulish I.M. , Promising Technologies in Water Transport: Development and Implementation of Fungus-Resistant and Ecologically Clean Epoxy Nanocomposites	01020(7)
Shuaibov O.K., Minya O.Y., Hrytsak R.V., Malinina A.O., Malinin O.M. , Characteristics of a Source of Synchronous Fluxes of UV Radiation and Zink Nanoparticles, Promising for Biomedical Engineering	01021(6)
Onyshchenko V.F., Karachevtseva L.A. , Reflection and Absorption of Two-Layer Porous Silicon	01022(6)
Al-Tweissi M., Tarawneh I. , The Effect of Nickel Bromide Nanoparticles on Optical and Thermal Properties of Polystyrene Polymer	01023(6)
Loskutova T., Kononenko Ya., Kharchenko N., Umanskyi O., Vedel D., Hovorun T. , Influence of Electrochemical Nickelizing on the Structure, Composition, and Heat Resistance of AISI 1045 after Chromoaluminizing	01024(9)
Lisovska S.A., Ivanichok N.Ya., Klymkovich S.M., Lisovskyy R.P., Merena R.I., Lysiv T.O., Mandzyuk V.I., Rachiy B.I. , Structural and Morphological Properties of Nanoporous Carbon Materials Obtained from Biomass.....	01025(6)
Denisov S.I., Lyutyy T.V., Moskalenko M.M., Liutyi A.T., Bystryk Yu.S. , Asymptotic Theory for Directed Transport of Suspended Ferromagnetic Nanoparticles.....	01026(5)
Melnik L., Donii O., Sviderskyy V., Kharchenko N., Hovorun T., Milotskyi R. , Thermal Insulation Properties of Red Mud as a Functional Filler for Polymer Composites.....	01027(6)
Nadtochiy A., Podolian A., Korotchenkov O., Oberemok O., Kosulya O., Romanyuk B. , Ultrasonically Assisted Fabrication of Graphene/ZnO Nanocomposites with Accelerated Ultraviolet Photoresponse	01028(4)
Ahmed Md.F., Kabir M.H. , Capturing of Radio Frequency Energy with a Compact Ultra-wideband Patch Antenna	01029(6)
Yatsenko I.V., Antonyuk V.S., Vashchenko V.A., Gordienko V.I., Kolinko S.O., Butenko T.I. , Determination of Areas on the Surface of Optical Fairings of Various Geometric Shapes Subjected to Maximum Thermal Shock Impacts.....	01030(7)
Information for authors.....	I-1