

CONTENTS

2022, Vol. 14, No 5

Jadav J. Darshan, Vyas S.M., Vora A.M. , Structural, Morphological and Optical Characterization of Cobalt Diselenide Grown by Direct Vapor Transport (DVT) Method	05001(4)
Syvolozhskiy O.A., Lazarenko O.A., Matzui L.Yu., Vovchenko L.L., Oliynyk V.V., Zagorodnii V.V., Mamunia Y.P. , Microwave Properties of GNP-Polymer Composites with a Segregated Conductive Network	05002(5)
Hashim Yasir, Hussein Safwan Mawlood , Combined (Si) and (Ge) FinFET-CMOS Inverter Characterization Based on Driver to Load Transistor Ratio	05003(6)
Jallal Mohammed Ali, Yassini Abdessalam El, Chabaa Samira, Zeroual Abdelouhab , Towards Smart Monitoring Systems: Fault Detection and Diagnosis-Based Artificial Intelligence Algorithms in Solar PV Power Plants	05004(5)
Vasylytsiv V., Kostyk L., Tsvetkova O., Kushlyk M., Slobodzyan D., Diduk R., Pavlyk B., Luchechko A. , Microdefects and Electrical Properties of β -Ga ₂ O ₃ and β -Ga ₂ O ₃ :Mg Crystals Grown by Floating Zone Technique	05005(5)
Lysenko A.V., Ilin S.S. , Multiharmonic Interactions of Longitudinal Waves in Amplification Section of Superheterodyne Free Electron Laser	05006(6)
Malyk O.P. , Calculation of the Electron Wave Function and Crystal Potential in a Sphalerite Semiconductor at a Given Temperature.....	05007(5)
Parthasarathi P., Arun Samuel T.S., Vimala P., Arumugam N. , Power and Threshold Voltage Analysis of 14 nm FinFET 12T SRAM Cell for Low Power Applications	05008(6)
Regaiguia B., Chahaoui O., Saoudi A., Boulahrouz S., Fares M.L. , An Evolutionary Anisotropic Behavior for DC04 Sheet Using Hill48 Function under Non-Associated Flow Rule Hypothesis.....	05009(5)
Gulomov J., Ziyoitdinov J., Gulomova I. , The Effect of Temperature and Base Thickness on Photoelectric Parameters of Amorphous Silicon Solar Cells	05010(6)
Koval A.O. , Energy Characteristics of Nearly Spherical Metallic Nanoparticles	05011(5)
Gulomov J., Aliev R., Mirzaalimov N., Rashidov B., Alieva J. , Study of Mono- and Polycrystalline Silicon Solar Cells with Various Shapes for Photovoltaic Devices in 3D Format: Experiment and Simulation	05012(8)
Guermat Noubel, Darenfad Warda, Mirouh Kamel, Kalfallah Mehdi, Ghoumazi Mehdi , Super-Hydrophobic F-Doped SnO ₂ (FTO) Nanoflowers Deposited by Spray Pyrolysis Process for Solar Cell Applications	05013(6)
Nikonova A.A., Nebesniuk O.Y., Nikonova Z.A. , Technological Features of Real Contact Systems' Production for Nanosystem Equipment	05014(5)
Dhanush R., Kumar S. Ashok, Logisvary V. , Implementation and Analysis of an L-Shaped Tunnel Field Effect Transistor by Incorporating Gate and Oxide Engineering ts.....	05015(4)
Chitour M., Bouhadra A., Benguediab S., Saoudi A., Menasria A.R., Tounsi A. , Effect of Phase Contrast and Geometrical Parameters on Bending Behavior of Sandwich Beams with FG Isotropic Face Sheets.....	05016(6)

Anouar Es-saleh, Mohammed Bendaoued, Roubhi Rihab, Soufian Lakrit, Das Sudipta, Mohamed Atounti, Ahmed Faize , Design and Analysis of a Dual-Band 27/38 GHz Elliptical-Shaped Patch Antenna for 5G Applications.....	05017(5)
Rihab Roubhi, Anouar Es-saleh, Soufian Lakrit, Das Sudipta, Fouad El Otmani, Mohamed Atounti, Ahmed Faize , Evaluation of the Iron State in Humid Zones Using GPR with 1.6 GHz Bowtie Antenna	05018(6)
Protsenko I.Yu., Vasyukhno M.V., Protsenko S.I., Rylova A.K., Tyshchenko K.V. , Prediction of Electrophysical and Magnetic Properties of Multicomponent (High-Entropy) Film Alloys....	05019(4)
Maksymych V., Calus D., Matulka D., Chabecki P., Shvets R., Pokladok N., Ivashchyshyn F. , Electrical Conduction and Polarization Properties of InSe<CS(NH ₂) ₂ <C ₁₄ H ₁₀ >> Clathrate.	05020(4)
Saoudi A., Aissani L., Boulahrouz S., Radjehi L., Chahaoui O., Mebarki M., Djebaili H. , Influence of the Surface Diffusion Length on the Roughness of Thin Layers Obtained by Random Deposition.....	05021(5)
Zegdou S., Aiadi K.E., Benkrima Y. , Theoretical Study of the Effect of Packing on the Temperature of Fiber Optic Cables	05022(5)
Umamakeshvari K., Vella Durai S.C., Nagarajan M. , A Study of Photoreactivity of Inorganic Nanocrystals with Significant Organic Colors	05023(10)
Onyshchenko V.F. , Photoconductivity Kinetics in Bilateral Macroporous Silicon	05024(5)
Djerioui M., Hebali M., Abid M. Abboun , Impact of Device Sizing on Electrical Properties of DG-SOI-MOSFET Using Octave Software	05025(4)
Sozanskyi M.A., Shapoval P.Yo., Gnativ T.B., Guminilovych R.R., Stadnik V.E., Laruk M.M. , Comparison of Structural and Optical Properties of CdSe Films Grown by CSD and CBD Methods	05026(5)
Mandzyuk V.I., Lisovskiy R.P. , Fractal Structure of Nanoporous Carbon Obtained by Hydrothermal Carbonization of Plant Raw Materials	05027(4)
Brajpuriya R. , Probing Co/Si Interface by Raman Spectroscopy.....	05028(4)
Mazur Tetiana, Slyotov Mykhailo, Mazur Myroslav, Slyotov Oleksii , Heterolayers of Hexagonal α -CdTe.....	05029(5)
Bencheikh Radia, Belakroum Karima , Theoretical Study of the Spinel Structure of CuCr ₂ O ₄ in the Tetragonal Phase Using Density Functional Theory	05030(7)
Information for authors.....	I-1