

CONTENTS

2019, Vol. 11, No 5

Tarika K. Patel, Gajjar P.N. , Heat Transport in One-dimensional Dimer Chain	05001(5)
Klochko N.P., Klepikova K.S., Petrushenko S.I., Nikitin A.V., Kopach V.R., Khrypunova I.V., Zhadan D.O., Dukarov S.V., Lyubov V.M., Khrypunova A.L. , Effect of Glow-discharge Hydrogen Plasma Treatment on Zinc Oxide Layers Prepared through Pulsed Electrochemical Deposition and via SILAR Method.....	05002(7)
Benseba G., Moussi A., Meziani S., Hocine D., Belkaid M.S. , Basic Study of Mono-like Silicon Material Properties under Chemical Treatments: Comparison with Single and mc-Silicon	05003(5)
Daoud Salah , Structural and Piezoelectric Properties of BSb under High Pressure: a DFT Study.....	05004(4)
Galat A.B., Donchenko A.L. , Analytical Estimation of Recombination Current of Sharp Asymmetric p-n Junction	05005(8)
Yanuar H., Asmi S., Farma R., Awitdrus A., Taer E., Mardhiansyah M. , Growth of Palladium Thin Film Deposited on Stainless Steel Current Electrodes by Wet Chemical Method for Activated Carbon Supercapacitor and Their Electrochemical Properties	05006(5)
Oksanich A.P., Pritchins S.E., Kogdas M.G., Kholod A.G., Shevchenko I.V. , Effect of Porous GaAs Layer Morphology on Pd/porous GaAs Schottky Contact.....	05007(5)
Benabdelkrim B., Benatillah A., Ghaitaoui T. , Evaluation and Extraction of Electrical Parameters of Different Photovoltaic Models Using Iterative Methods.....	05008(7)
Sebaa N., Adnane M., Djelloul A., Abderrahmane A., Sahraoui T. , Effect of Increasing Concentrations on Sprayed Cu ₂ ZnSnS ₄ Thin Films.....	05009(5)
Loboda V.B., Ren J.Q., Dovzhyk M.Ya., Khursenko S.M., Liang M.C. , High-vacuum Pump of Orbitron Type: Electrophysical Principles of Work and Design Features.....	05010(7)
S.C. Vella Durai, R. Ganapathi Raman, E. Kumar, D. Muthuraj , Structural, Optical, Morphological and Thermal Properties of CuO Nanoparticles Prepared by Sol-gel Technique	05011(4)
Filali W., Garoudja E., Oussalah S., Sengouga N., Henini M., Taylor D. , The Efficiency of Best-so-far ABC Algorithm versus Analytical Methods for Schottky Diode Parameters Extraction.....	05012(5)
Marchuk V.Ye., Kindrachuk M.V., Mirnenko V.I., Mnatsakanov R.G., Kornienko A.O., Bashta O.V., Fedorchuk S.V. , Physical Interpretations of Internal Magnetic Field Influence on Processes in Tribocontact of Textured Dimple Surfaces.....	05013(5)
Fedulov I.N. , Density of Surface States in 3D Topological Insulators in the Presence of Magnetic Field with Hexagonal Warping Effect	05014(6)
Sally K. Abbas, Asama N. Naje , Functionalized Carbon Nanotubes on Porous Silicon for Sensing Application.....	05015(4)
Olenych I., Girnyk I., Orovčík L. , Electrical Properties of Porous Silicon Nanocrystals in a Dielectric Matrix.....	05016(5)

Choudapur V.H., Kapatkar S.B., Raju A.B., Synthesis and Characterization of Cu Doped ZnS Thin Films Deposited by Spin Coating	05017(6)
Reva V.I., Vasylenko O.V., Pogosov V.V., Simulation of Spherical Metal Nanoclusters Containing Monovacancy	05018(8)
Nebesniuk O.Y., Nikonova Z.A., Nikonova A.A., Khrypko S.L., Impact of Defects on Quality Contact Systems for Photoelectric Converters	05019(5)
Ryabtsev S.I., Polonskyy V.A., Sukhova O.V., Berun M.V., Structure, Electrical and Corrosion Properties of Quasicrystalline Al–Cu–Fe–Sc Thin Films	05020(5)
Lyutyy T.V., Reva V.V., Petrenko N.S., Pavlyuk M.O., Forced Precession of a Ferromagnetic Nanoparticle with a Finite Anisotropy Suspended in a Liquid: Nonlinear Aspects.....	05021(5)
Lysenko A.V., Volk I.I., Oleksiienko G.A., Shmat'ko A.A., Space Charge Wave with Broad Frequency Spectrum Formation in Transit Section of Klystron-type Two-stream FEL with Helical Electron Beam.....	05022(8)
Vadets D.I., Garashchenko V.I., Garashchenko O.V., Romaniv O.Y., The Grüneisen Parameter and the Apparent Part of the General Measure of Anharmonicity of Solid Solutions of the Fe-Ni System	05023(4)
Ptashchenko F., DFT-modeling of Ammonia Molecules Protonation on a p-type Silicon Surface.....	05024(4)
Sulaiman A.A., Muhammed A.A.K., Ivashchenko M.M., Optical and Electrical Properties of n-type Porous Silicon Produced by Electrochemical Etching and Study of the Influence of γ -irradiation.....	05025(6)
Ajay Kumar Sharma, Praveen Kumar Jain, Rishi Vyas, Vishal Mathur, Vipin Kumar Jain, Enhanced Optical and Dielectric Properties of PANI/rGO Nanocomposites for Supercapacitor Application	05026(5)
Rogacheva E.I., Novak K.V., Doroshenko A.N., Nashchekina O.N., Budnik A.V., Effect of Deviation from Stoichiometry on Thermoelectric Properties of Bi ₂ Te ₃ Polycrystals and Thin Films in the Temperature Range 77-300 K	05027(6)
Mar'yan M.I., Yurkovych N.V., Seben V., Formation and Modeling of Nanosized Levels of the Self-organized Structures in the Non-crystalline Thin Films of Ge-As-Te(S, Se) Systems.....	05028(8)
Venger Ye., Kolyadina O., Holevchuk V., Matveeva L., Matiyuk I., Mitin V., Physics and Technology of Heterosystems with Films of Germanium and Germanium with Gallium.....	05029(4)
Kramar O.I., Skorenkyy Yu.L., Dohopyaty Yu.M., Effective Masses of Carriers in the Degenerate Conduction Band: Interplay of Density of Electronic States Peculiarities and Magnetization.....	05030(6)
Smyntyna V.A., Skobeeva V.M., Verheles K.A., Malushin N.V., Influence of Technology on the Formation of Luminescence Centers in CdS Quantum Dots	05031(4)
Shved V.M., Hreb V.M., Vasylechko L.O., Electronic and Magnetic properties of RMO ₃ (M = Co, Fe) Perovskites: A First Principle Study	05032(5)

Balabai R.M., Solomenko A.G., Use of the Adsorbed Organic Molecules as Dopants for Creation of the Built-in Lateral p-n Junctions in a Sheet of Black Phosphorene	05033(6)
Kovalenko O.V., Vorovsky V.Yu., Bulanyi M.F., Khmelenko O.V., Modification of Surface of ZnO:Mn Nanocrystals Synthesized by the Cryochemical Method	05034(5)
Bilozeretseva V., Diakonenko N., Ovcharenko O., Modeling of Photon Crystals of Microwave Range Using Interference Matrixes	05035(4)
Samila A.P., Lastivka G.I., Tanasyuk Yu.V., Actual Problems of Computer Parametric Identification of the NMR and NQR Spectra: a Review	05036(10)
Beresnev V.M., Lytovchenko S.V., Horokh D.V., Mazilin B.O., Stolbovoy V.A., Kolodiy I.N., Kolesnikov D.A., Grudnitsky V.V., Srebniuk P.A., Glukhov O.V., Tribotechnical Properties of (TiZr)N/(TiSi)N Multilayer Coatings with Nanometer Thickness	05037(4)
Shanmugapriya T., Balavijayalakshmi J., Electrochemical Investigation of Nitrogen Doped Graphene Oxide / Yttrium Oxide Nanocomposites.....	05038(4)
Phuong M.T., Trinh P.V., Tuyen N.V., Dinh N.N., Minh P.N., Dung N.D., Thang B.H., Effect of Graphene Nanoplatelet Concentration on the Thermal Conductivity of Silicone Thermal Grease.....	05039(4)
Sumanta Kumar Tripathy, Sanjay Kumar, Divya Aparna Narava, Effect of Grain Size on Strain in a Copper Oxide Nanofilm for Gas Sensing Applications.....	05040(4)
Kaykan L.S., Mazurenko J.S., Yaremiy I.P., Bandura Kh.V., Ostapovych N.V., Effect of Nickel Ions Substitution on the Structural and Electrical Properties of a Nanosized Lithium-iron Ferrite Obtained by the Sol-gel Auto-combustion Method.....	05041(7)
Ajay Kumar Sharma, Praveen Kumar Jain, Rishi Vyas, Vishal Mathur, Vipin Kumar Jain, Effect of rGO Concentration on the Thermal Stability of PANI/rGO Nanocomposites.....	05042(3)
Bardashevskaya S.D., Budzulyak I.M., Budzulyak S.I., Rachiy B.I., Yablon L.S., Morushko O.V., Optical Properties of ZnSe Quantum Dots in Carbon Matrices	05043(3)
Information for authors.....	I-1