

NANOSISTEMI, NANOMATERIALI, NANOTEHNOLOGII

FOUNDED IN OCTOBER, 2003

Volume 20, Issue 4 (2022)

CONTENTS

Editorial Announcements	Information for Subscribers	X
	Information for Contributors	XIII
	Publication Ethics	XVI
	Characteristics and Parameters of the Plasma of the Gas Discharge Reactor for the 'Cold' Synthesis of Bimetallic Cu–Zn Nanoparticles in Argon <i>O. K. SHUAIBOV, A. O. MALININA, O. M. MALININ, O. Y. MINYA, and R. V. HRYTSAK</i>	839
	Features of Electrochemical (Anode) Synthesis of Nickel and Copper Nanocrystalline Powder <i>Ol. D. ZOLOTARENKO, E. P. RUDAKOVA, V. A. LAVRENKO, N. Y. AKHANOVA, An. D. ZOLOTARENKO, D. V. SHCHUR, Z. A. MATYSINA, M. T. GABDULLIN, M. UALKHANOVA, N. A. GAVRYLYUK, O. D. ZOLOTARENKO, M. V. CHYMBAL, and I. V. ZAGORULKO</i>	857
	Effect of Plating of Carbon Fibres with Ni on Properties of Fe-Based Materials <i>Mahmud ELKADY, A. V. MINITSKY, I. Yu. TROSNIKOVA, P. I. LOBODA, and D. S. LEONOV</i>	875
	Massive Microporous Composites Condensed from the Vapour Phase <i>M. I. GRECHANYUK, V. G. GRECHANYUK, V. A. SHAPOVALOV, I. M. GRECHANYUK, O. V. MATSENKO, A. V. KOZYREV, and V. I. GOTS</i>	883
	The Effect of Tapioca on Morphological and Mechanical Properties of Metakaolin–Zirconia Geopolymer for Dental Restorative Nanocomposite <i>Aninda Kartika DEWI, Andrie HARMAJI, Rinawati SATRIO, and Bambang SUNENDAR</i>	895
	Study of Zinc Oxide Varistors by Incorporating Alkaline-Earth and Rare-Earth Metal Nanofillers	

<i>Parvathy BHASKAR, M. G. VEENA, and B. S. MADHUKAR</i>	907
Germanium Wetting Layers' Dimensional Effect in Structural and Optical Properties of Silver Films <i>R. I. BIHUN, M. D. BUCHKOVSKA, B. P. KOMAN, and D. S. LEONOV</i>	929
Tailoring the Structure, Electronic and Optical Properties of PEO/CuO/In ₂ O ₃ New Structures for Flexible Electronics and Optics Approaches <i>Huda Bukheet HASSAN, Hayder M. ABDULJALIL, and Ahmed HASHIM</i>	941
Exploring the Optical, Electronic and Thermal Characteristics of New Nanostructures (PEO/Cu/Ag/H ₂ O) to Use in Solar Collectors <i>Hind AHMED and Ahmed HASHIM</i>	951
Enhanced Optical Absorption and Low Energy Gap of SiC-Nanostructure-Doped PVA/PVP Blend <i>Haitham Ahmed JAWAD and Ahmed HASHIM</i>	963
Synthesis and Characterization of Polyfurfural Nanoparticle <i>Ahmad AL-HAMDAN, Ahmad AL-FALAH, Fawaz AL-DERI, Ali ALASMI, Joumaa MERZA, Mirna JABBOUR, and Waed ABODABOOS</i>	971
Experimental Investigation of the Effect of Expanded Graphite on the Thermophysical Properties and the Heating and Cooling Rate of Paraffin Wax in Capsule of Thermal-Energy Storage System <i>Vitaly ZHELEZNY, Olga KHLIYEVA, Yana HLEK, Oleksiy PASKAL, Dmytro IVCHENKO, and Mykola LAPARDIN</i>	983
High UV-Absorbing Films Fabricated from Low-Cost and Lightweight Materials for Bioenvironmental Application <i>Huda Abdul Jalil HUSSEIN, Aseel HADI, and Ahmed HASHIM</i>	1001
Fabrication, Structural and Biological Application of SiC/TaC-Nanoparticles-Doped Polycarbonate (PC) <i>Wissam Obeis OBAID and Ahmed HASHIM</i>	1009
The State of Antioxidant Systems and Lipids' Peroxidation Under the Action of Complex Substances <i>V. O. VEKSHYN, L. P. ABRAMOVA, and E. R. GRABOVETSKA</i>	1017
Synthesis and Morphology Characteristics of PMMA/CeO ₂ /SiO ₂ Nanostructures for Antibacterial Application <i>Ola Basim FADIL and Ahmed HASHIM</i>	1029
Synthesis and Characterization of 2-(Aminothiazole-4-yl) Coumarin-2-One, and Studying Its Nanoparticles as Antibacterial Activity <i>Ali ALASMI, Joumaa MERZA, Mirna JABBOUR, and Shaimaa RABAH</i>	1037

Scientific Editor of the Issue—*V. A. Tatarenko*

Executive Managing Editor—*V. V. Lizunov*

Technical Editor—*D. S. Leonov*

Editorial-Publishing Department, G. V. Kurdyumov Institute for Metal Physics, N.A.S. of Ukraine

Editorial Office: 36 Academician Vernadsky Boulevard, UA-03142 Kyiv, Ukraine

Telephone: +380 44 4229551, +380 44 4249042, +380 44 4241221. Fax: +380 44 4242561

E-mail: tatar@imp.kiev.ua, dsleonov@gmail.com