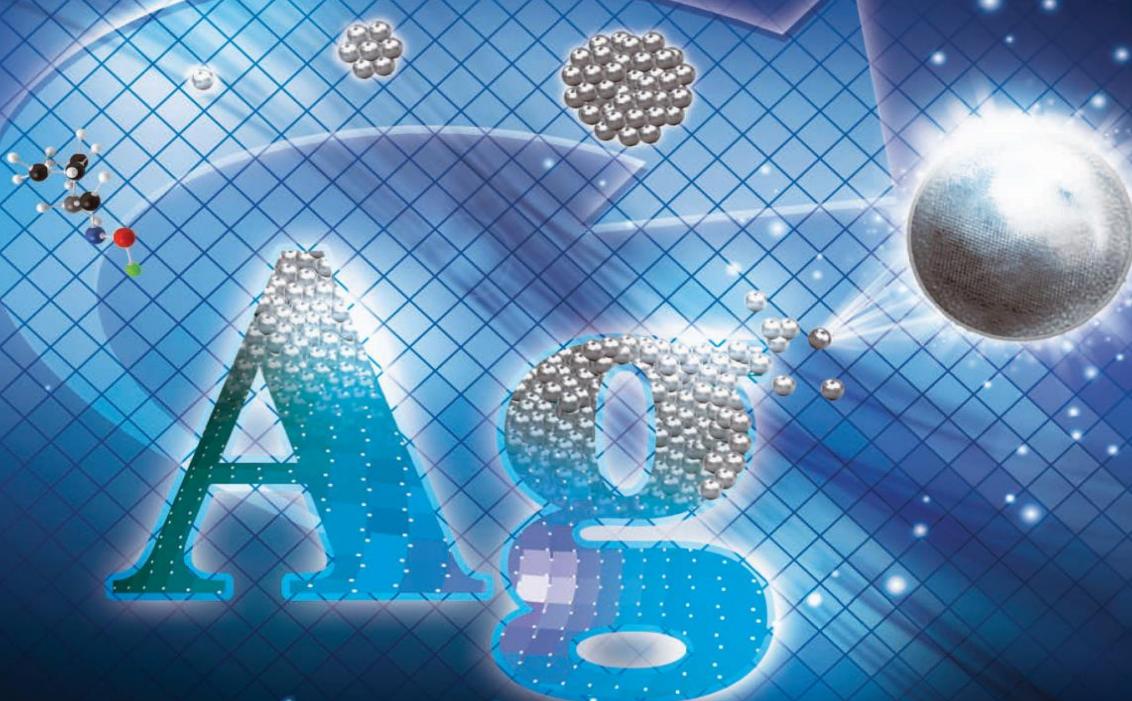


New Materials Compounds and Applications



Vol.8, No.3, 2024

CONTENTS

Vol.8, No.3, 2024

F. Mollaamin, M. Monajjemi (pp.303-323)

Designing novel nanomaterials for Li-ion batteries: A physico-chemical study through hydrogen-powered horizons

G. Atakishiyeva, A. Abdullayeva, N. Ahmedova, N. Gurbanova, G. Babayeva, K. Garazade, A. Maharramov, V. Nenajdenko, N. Shikhaliyev (pp.324-342)

Quantitative and qualitative predictions of 4-azido 2h-1,2,3- triazoles cytotoxicity in relation to human breast cancer cell lines

G. García-Domínguez, J. Reyes-Miranda, G. Chávez-Escalante, M.Á. Barrón-Meza, A. Garrido-Hernández (pp.343-354)

Commercial polyurethane clear coat reinforced with carbon nanotubes and hydroxyapatite powders

M.S. Pirkuliyeva (pp.355-362)

Synthesis of antimicrobial modifiers based on polyvinyl alcohol acylated with chloroanhydride of maleopimaric acid

R.R. Aziz, M.M. Shehab, R.H. Hasan, G.H. Abdulwahhab, J. Abduo (pp.363-372)

Comparison of some mechanical properties of adding ZrO₂ nanoparticles to microwave-cured acrylic and hot-cured denture base acrylic materials

S.A. Ibrahimova, S.H. Mukhtarova, S.M. Eyvazova, S.A. Musayeva,

I.H. Hamdullayeva, G.R. Rustemova, G.T. Atakishiyeva, N.Q. Shikhaliyev (pp.373-389)

Prediction of biological activity by means of synthesis and QSAR model of phenylhydrazone based on methyl 4-formylbenzoate

J. Mirzayev, E. Rakhmonov, Y. Rakhimov, Y. Uzokov, F. Kobilov,

F. Shakhriddinov, A. Ishankulov, K. Rashidova, I. Elboev, E. Berdimurodov (pp.390-401)

Enhancing bread quality: Effects of small and mechanically damaged starch granules in local wheat flour

N.I. Yagubov, A.N. Sultanova, I.I. Aliyev, L.M. Gurbanova, C.A. Ahmedova,

N.A. Aliyeva (pp.402-410)

The phase diagram of the In₂Se₃-SrInSe₂ system and the photo- and electrophysical properties of the obtained phases

S.Z. Zainabidinov, A.Y. Boboev, M.B. Rasulova, N.Y. Yunusaliyev (pp.411-421)

X-ray diffraction analysis, optical characteristics and electro-physical properties of the N-ZnO/P-NiO structure grown by the spray pyrolysis method

M. Anupama, R. Gopalakrishnan Nair, A. Ashalatha (pp.422-429)

Hafnium diboride: A notable solid-state material for efficient photothermal conversion

B. Abdullayev, O. Bobokulova, M. Kurbanov, L. Xolmirzayeva, L. Bozorova,

Z. Matkarimov, M. Samadiy (pp.430-439)

Study of the desulfurization process of brine from the Karaumbet and Barsakelmes lakes

N. Mammadova, M. Gurbanov, U. Guliyeva (pp.440-449)

Study of the microbiological parameters of irradiated samples at Hovsan coastal area of the Caspian Sea

S. Parmonov, K. Sharipov, D. Mirzavaliyev, F. Makhmudova, N. Askarova,

R. Toshkodirova, N. Abdullaeva, M. Rifky, J.M. Harris, A. Kambarov (pp.450-458)

The technology of obtaining powders used in the production of solid alloys

A.M. Nazarov, Y.I. Aliyev, H.I. Bagirova, A.S. Alekperov, H.J. Huseynov,

K.T. Tahmazova (pp.459-468)

Obtaining of AgCuS epitaxial layers with molecular beams condensation method