

CONTENTS

M. Farsi, A.Heidarinasab, B.Honarvar, M. Arjmand, Structure and performance of PDMS as cross-linking agent upon property of blending PDMS, PEG, PES and PAN membranes....	5
M. Omidvar, E. Koohestanian, O. Ramezani, The effect of using nanostructures of synthesized lead oxide by mechanical milling on lead-acid battery performance using Taguchi method.....	12
S. Dehghanpoor, B. Sadeghi, M.Mosslemin, Nano-sawdust-SbCl ₅ as a new, green and effective nano catalyst for one-pot synthesis of pyrano [4,3- <i>b</i>] pyrans.....	18
M. Rouhi, B. Sadeghi, M.Moslemin, Nano-cellulose-SbCl ₅ as a new heterogeneous nano-catalyst for the one-pot synthesis of spirooxindoles under mild conditions.....	23
E. Abyar, B. Sadeghi, M.Mosslemin, Nano-kaolin-TiCl ₄ as a new, green and effective nano-catalyst for one-pot synthesis of tetrahydrobenzo[<i>B</i>]pyrans.....	29
A.Haghighi Shad, D.Masti, M.Athari Allaf, K.Sepanloo, S.A.H.Fegghi, Introduction of KIANA radio-ecological Iranian domestic code for concentration and dose calculation of radio isotopes release at normal and accidental conditions in nuclear installations and chemical facilities.....	33
A.S. Mohamadhoseini, S. Jamehbozorgi, J. Beheshtian, investigation of interaction between graphene and its compounds as carriers on anti-cancer drug of 5-fluorouracil.....	59
B.Sadeghi, A. Moradgholi, E. Akbarzadeh, Nano-cellulose-OSO ₃ H as a green and effective nano catalyst for one-pot synthesis of pyrano [2,3- <i>D</i>] pyrimidines.....	63
M.M. Royaei, A. Pourbabaee, M. Noaparast, The effect of microwave irradiation on operational parameters of copper flotation concentrate bioleaching by irradiated mesophilic bacteria.....	69
K. Habibi, M. Mamaghani, M. Nikpassand, Examining the synthesis of organic material used as an oxidation inhibitor for all types of lubricating oils.....	76
L.Nazari, B.Baghernejad, Nano CeO ₂ /ZnO: a powerful catalyst for the very fast synthesis of quinoxaline.....	83
H.H. Shekarabi, P.A. Azar, A.Javid, A. Hasani, Arsenic (V) removal from aquatic media by electrospun alumina nanofiber.....	88
P. Mehrani, N. Ghasemi, M. Ramezani, Synthesis and characterization of metal organic framework based on copper particles for storage of zinc oxide nanoparticles.....	97
A.Ghadami Jadval Ghadam, M. Shanbehpour Theoretical model for simulation of the particles drying using gateway dryer: heat and mass transfer study.....	102
H. Hashemi, A. Ghadami Jadval Ghadam, Prediction of density for the mixture of octanol and polyethylene glycol using fuzzy and adaptive neuro-fuzzy systems.....	113
F. Khosravi, H. Irani Behbahani, H.Ghaffarzadeh, A. Vafaeinejad, Evaluation of sustainable landscape services based on the analytic network process (ANP).....	119
F. Ghalambaz, A. Farhadi, A.R. Kiasat, R. Badri, Three component one-pot synthesis of some 4H benzo[<i>b</i>]pyran derivatives by using dual organo modified MCM-41 as nanocatalyst....	130
M. Ameri Siahooei, Kh. Mehrani, M.Yousefi, Prevent of greenhouse gas emissions in aluminum smelter by carbon nanotube (Monte Carlo simulation).....	139
M. Rostami, H. Khorsand, An experimental approach to an optimized method for producing Al ₂ O ₃ -coated aluminum nanopowder as a core-shell superconductor by electro explosion of wire.....	147
E. Zarrinabadi, R. Abghari, A. Nazari, M. Mirjalili, Modeling and optimization of electromagnetic and saturated magnetic properties of polyester fabrics coated with Ag/kaolin/silica nanocomposites.....	154
M. Adelizadeh, M Macki Aleagha, A. Behbahaninia, Providing an interpretive structural model of implementation of cleaner production in the pharmaceutical industry.....	168
KH. Didehban, S.A. Mirshokraie, J. Azimvand, Safranin-O-dye removal from aqueous solution using superabsorbent lignin nanoparticle/polyacrylic acid hydrogel.....	180
P. Azimi, K. Tahvildari, P. Derakhshy, F. Motiee, Comparison of the advanced oxidation processes and adsorption with chitosan-zeolite composite in reducing the amount of airport wastages containing glycol pollution.....	188

M.F.Yazdanbakhsh, A.Rashidi, M.K.Rahimi, R.Khajavi, H.Shafaroodi, The effect of impregnated alpha-cellulose nanofibers with ciprofloxacin hydrochloride on <i>Staphylococcus aureus in-vitro</i>	195
A. Meftahi, R. Khajavi, A. Rashidi, M. K. Rahimi, A. Bahador, Enhancement of bacterial cellulose rehydration via BTCA cross-linking.....	203
S. Sarli, N. Ghasemi, A. Moradi, Optimal Synthesis, Characterization, antibacterial and anticancer assay of green synthesized nickel nanoparticles by <i>Taxus brevifolia</i> leaf extract.....	209
M.H. Rousta, N. Ghasemi, M. Ramezani, T. M. Esfahani, Optimal synthesis and characterization of green synthesized silver nanoparticles by <i>Lawsonia Inermis</i> extract....	224
A. Samaditabrizi, K. Arzan, M. Tamizifar, The effect of temperature and phosphate treatment for investigation of wear and corrosion of synthesized nano-alumina coatings through sol-gel method on Inconel 718 alloy.....	230
B. Asadi, N. Ghasemi, M. Rabbani, K. Mahanpoor, Preparation of magnetic nano sponge and the effect of its absorption on β -lactam drugs.....	238
M.Khodaie, N.Ghasemi, Green synthesis and characterization of copper nanoparticles using <i>Eryngium campestre</i> leaf extract.....	244
Gh. Chizari Fard, M. Mirjalili, F. Najafi, Preparation of nano cellulose/A-Fe ₂ O ₃ hybrid nanofiber for the cationic dyes removal: optimization characterization, kinetic, isotherm and error analysis.....	251
M.Hadizadeh, M.H. Mosslemin, B.Sadeghi, [2-(Sulfooxy) ethyl] sulfamic acid (SESA): an efficient heterogeneous recyclable catalyst promoted green synthesis of B-amido carbonyl compounds derivatives by multi-component reactions (MCRs).....	262
N. Ghazavi, M. H. Mosslemin, R. Mohebat, <i>Hibiscus sabdariffa</i> : biocatalyst for solvent-free synthesis of dihydropyrimidinone derivatives.....	270
Z. Heidarneshad, M. Vahedpour, Investigation of unimolecular reaction for C–H and N–H bonds fission in aniline by calculation Arrhenius parameters with RRKM method and analysis of NBO and HOMO, LUMO orbitals.....	276
A.Dehjurian, J. Lari, A. Motavalizadehkakhy, Identification and quantitative analysis of quercetin and luteolin polyphenol in methanolic extracts of <i>Cirsium arvense</i> with HPLC..	285
M. Khazravi, M. Bahmaei, M. Ebrahim Olya, S. Masoud Etehad, Decolourisation of the colored textile industries using a new combination of activated carbon and fiber; kinetic, thermodynamic and isotherm studies.....	290
M. Dehanzadeh, P. Ziarati, M. Homapour, Identification of a method for detecting and determining mixing palm oil with cream and detection of threshold using the chemical and machine test.....	301
S. Daneshpajoo, M. Mozdianfard, H. Ebrahimi, Investigation of kinetics and mechanism of the sulfating roasting process of chalcopyrite concentrate for water-leaching	310
E. Esmaeili, F. Shafiei, QSAR study for the prediction of physico-chemical parameter of category barbiturate compounds by using descriptors structure.....	319
F. Naye Morad, A. Rashid, R. Khajavi, M. Karim Rahimi, A. Bahador, Extraction water-swallowable fraction of gum tragacanth for innovation in burn wound dressing.....	326
M. M. Amiri, F. Amiri, F. Foroutan, H. Asghar Rahnamaye Aliabad, Effect of substituted Mn on optical properties of indium oxide and zinc oxide.....	335
Sh. Bizhanzadeh, M. Daghighi, L. Torkian, Synthesis of porous Al ₂ O ₃ –SiO ₂ nanocomposite xerogel through a sol-gel method and its application in adsorption of heavy metals.....	341
T.A.B. Matin, N. Ghasemi, K. Ghodrati, Majed Ramezani, Synthesis and characterization of silver nanoparticles using <i>Thymbra spicata L.</i> herbal extract for removing methylene blue dye from aqueous solutions.....	348
Instruction to authors.....	362