



INDEX OF SUBJECTS

A

- A computational study of the steric strain of –N=O groups in saturated nitrosamines, F. POTMISCHIL and M. HILLEBRAND 91
- A continuous synthesis method of hydroxymethyl phosphonates using the microfluidic reactor, Z. WANG, H. LIU, Z. WANG and X. YANG 577
- A critical review of computational efforts towards identifying secondary structure elements in polylactic acid (PLA), I. IRSAI, S. PESEK and R. SILAGHI-DUMITRESCU 473
- Activation energy of heterogeneous catalytic oxidation of methanol in oscillatory regime, V. BRATAN and N. I. IONESCU 139
- Adsorption properties of boron nitride: A promising material for depollution applications, A. VASILE, F. PAPA, D. C. CULITA, O. C. MOCIOIU, S. PETRESCU, P. CHESLER, C. HORNOIU and V. BRATAN 339
- [Ag(EtOH){Ph₃Bi{O(O)CC₅H₄N-3}2}(ClO₄)]·CHCl₃ – A coordination polymer based on a divergent, ditopic metalloligand, A. BEN KIRAN, A. SILVESTRU, C. I. RAȚ and C. SILVESTRU 127
- A mixed-anion complex of nickel(II) with monoethanolamine, A. DUMBRAVA, C. MAXIM, C. A. SPINU, and M. ANDRUH 589
- Assessment of lignin and extractive content based models used in estimation of higher heating value of lignocellulose: Use of model mixtures, S. DEMIRCI 39

B

- Benzimidazolium bromide derivative inclusion complexes with native and modified beta-cyclodextrins, M. BALAN-PORCĂRAȘU, A. NICOLESCU, E. GEORGESCU, F. GEORGESCU, M. CRISTEA, C. DELEANU and B. C. SIMIONESCU 119

C

- Calculated adiabatic flame temperature – a tool for ascertaining the minimum inert concentration of fuel-nitrous oxide-inert gaseous mixtures, D. RAZUS, M. MITU, C. MOVILEANU and V. GIURCAN 321
- Comparative analysis of the caffeine content of tea determined with HPLC-MS/MS using different extraction methods, B. SZEREDAI, R. TÓTÓŠ, Á.-F. SZŐKE and N. MUNTEAN 401
- Comparative study for the retention of some benzodiazepines in reversed-phase liquid chromatography using C₈, C₁₈, C₆H₅ and CN stationary phases, E. BACALUM, T. GALAON, A.-C. SOARE, V. DAVID and S. C. MOLDOVEANU 277
- Corrosion inhibition efficiency of quinoxalines based on electronic structure and quantum computational analysis, D. M. MAMAND and H. M. QADR 435
- Corrosion inhibition of API5L X60 steel in sulfuric acid using gum Arabic, N.-E.-H. SOBHI and A. BOUKHOUIETE 17

D

- Dianhydride moieties involvement on the interactions of some polyimides with nematic compounds, R. M. ALBU, L. I. BURUIANA, I. STOICA, C. HULUBEI and A. I. BARZIC 227

E

- Effect of temperature on anti-corrosion properties of aluminum alloy anodized by sulphuric acid, F. NAFA, H. BENSABRA, J. P. CHOPART and M. L. CHELAGHMIA 27
- Effects of Vaccinium myrtillus L. extract on TNF- α -induced inflammation human paraoxonases, B. BALBAL, B. BITMEZ, I. G. ALBAYRAK, S. K. GULTEKIN, E. AKALIN, K. SALIHLER, M. KARTAL and B. A. ARSLAN 583
- Elucidating the influence of some metal ions on the binding of antimalarial drugs to human serum albumin: spectroscopic approach, K. A. MUSA, J. A. FRANCIS, S. B. MOHAMAD and S. TAYYAB 541
- Evaluation of biological activity and pharmacological attributes of Pariploca aphylla: potential source of functional food and nutraceuticals, U. YOUNAS, S. IQBAL, A. SALEEM, R. RAHMAN, A. NAZIR, F. HASSAN, A. SAJUD, Z. SAEED, M. IQBAL and N. AHMAD 391

F

- Fast and precise CoFe₃O₄/TiO₂/MWCNT-based voltammetric sensor preparation for salbutamol determination, F. B. EMRE 559

G

- Gravimetric and electrochemical investigation of the impact of various factors on XC48 carbon steel corrosion in different environments, M. KHALDOUNE, H. HAFID, N. ALLAOUA, A. KHIARI and N. GHERRAF 453
- Green inhibition of copper corrosion by ammoides verticillata oil in 1M nitric acid: weight loss and Raman spectroscopic mapping studies, N. CHABANE, F. DERGAL, T. ATTAR, N. BELARBI, I. CHIKHI, S. CHERIGUI, M. A. MUSTAPHA, D. LERARI and K. BACHARI 371

I

- Influence of ultrasonic treatment and heating/cooling under electric field on high-k cellulose-barium titanate composites, R. ROTARU, C.-M. POPESCU, A. DASCĂLU, D. ȚÎMPU, M. ASĂNDULESA, M. E. FORTUNĂ and V. HARABAGIU .. 173
- Investigation of the relationship between nicotine and cotinine concentrations in human biological samples by a GC-MS method, E. DURAL, H. T. KOZLUCA, B. İ. KAYA, G. MERGEN and T. SÖYLEMEZOĞLU 357

K

- Kinetics of phosphate adsorption from aqueous solution into organobentonite by cationic polymer grafted bentonite, M. AMRANI and S. BANDO 5

M

- Manifold inversion on prediction dihedral angle from vicinal coupling constant with 3-sphere approach, C.-I. MITAN, E. BARTHA, P. FILIP, C. DRAGHICI, M. T. CAPROIU and R. M. MORIARTY 183
- Mass spectrometric characterization of some gel-forming peptides, Ș.-C. JITARU, G. DROCHIOIU 285
- Molecular and silica-supported metal complexes as new catalysts for hydrosilylation, C. RACLES 233
- Morphological properties of ZnO nanostructures doped with Ag and Li for piezoelectric applications, M. CHELU, M. ANASTASESCU, J. CALDERON MORENO, D. MITREA, H. STROESCU, M. GHEORGHE and M. GARTNER 347

N

- New organobismuth(III) compounds based on a tetrahydro-dibenzo[c,f][1,5] azabismocine heterocyclic framework, L. CORJUC, C. SILVESTRU and A. SILVESTRU 209
- NMR proven albumin interaction with metabolites in complex mixtures, C. DUDUIANU, A. NICOLESCU, M. CRISTEA, R. STAN and C. DELEANU 253
- Nonionic surfactant-templated mesoporous silica as supports for nickel active catalysts in liquid phase organic compounds oxidation, M. BALCAN, D. F. ANGHEL, D. NEGOESCU, V. BRATAN and V. PARVULESCU 327

O

- Obtaining of transdermal patches by means of natural active principles, M. ȘALARIU and A. M. MOCANU 533
- Optical and electrical properties of Al-doped ZnO thin films deposited by sol-gel method, M. NICOLESCU, M. ANASTASESCU, J. M. CALDERON MORENO, H. STROESCU, M. COVEI, I. ATKINSON, S. MIHAIU and M. GARTNER 165

Q

- Quantitative structure-activity relationship for thiazolidine-2,4-dione derivatives as inhibitory activities of 15-PGDH using MLR and ANN, S. MEDJAHED, S. BELAIDI, N. TCHOUAR, H. BELAIDI, F. SOUALMIA and S. CHTITA 419

P

- Pharmacokinetic analysis of febuxostat in human serum by UFLC based on fluorimetric derivatization, E. BINAY, C. ONAL, A. ONAL and E. K. TEKKELI 527
- Polyimide precursor/functionalized carbon nanotubes: molecular modeling and physical properties theoretical evaluation, A. I. BARZIC, I. STOICA, M. SOROCEANU, S. L. NICA and R. M. ALBU 221
- Preparation and characterization of biomimetic heterogeneous catalysts with Cu(II) and Mn(III) complexes, M. MUREȘEANU, V. PARVULESCU, G. PETCU, S. NASTASE, T. D. PASATOIU and M. ANDRUH 153
- Preparation of modified multiwalled carbon nanotubes (l-Arg-CS/MWCNTs-COOH/Fe₃O₄) as sorbent for dispersive solid phase extraction of Cu(II), Pb(II) and Cd(II) in waste water samples, R. R. M. DAHAJI, A. MOGHIMI, H. SHAHBAZI, H. FARAJI and F. AZIZINEJAD 4953

R

- Relationship between tetrahedral and dihedral on hypersphere coordinates, C.-I. MITAN, E. BARTHA and P. FILIP 261

S

- Sodium benzyl sulfonate functionalized-bentonite as a novel adsorbent for water softening process, B. BEHZADI, M. NOEI, A. AZIMIL, M. MIRZAEI and H. A. ARKADANI 144

| | |
|--|-----|
| Strategies of hyaluronan chemical modifications for biomedical applications, S. I. TRIFAN and D. IVANOV | 201 |
| Structural characterization and antimicrobial activity of 2-[4,6-(Cl/CH ₃ /CF ₃)-benzimidazol-2-yl]-4-(OCH ₃ /Br)-phenols and their Zn(II), Pd(II) and Au(III) complexes, A. TAVMAN, A. Z. ELMAL, D. GÜRBÜZ, M. HACIOGLU, A. S. BIRTEKSÖZ TAN and A. ÇINARLI | 49 |
| Study of cobalamin adducts with cysteine and its oxidized sulfenic, sulfinic and sulfonic derivatives, A. GAINA-GARDIUTA, A. LUPAN, A. M. V. BRÂNZANIC, R. SILAGHI-DUMITRESCU | 143 |
| Study of influence of anomeric effect on conformational preferences using hybrid density functional theory (DFT) and natural bond orbital (NBO) interpretation, M. DANSHPAJUH and N. HASANZADEH | 61 |
| Study on the performance of green corrosion inhibitor in protection of API5LX60 in seawater environment, N. E. H. SOBHI, A. BOUKHOUIETE, M. FOUZIA and S. BENIDIR | 383 |
| Synthesis and antimicrobially activities of coumarin-3-carboxamide derivatives, H. ÇELIK-ONAR, G. BAYRAMOĞLU and E. MATARACI-KARA | 85 |
| Synthesis and characterization of novel thiosemicarbazide for nonlinear optical applications: combined experimental and theoretical study, D. HADJI, A. BENMOHAMMED, Y. MOUCHAAL and A. DJAFRI | 463 |
| Synthesis and crystal structures of yttrium and dysprosium tetrakis(hexafluoroacetylacetonato) complex anions with tetramethylammonium counterions, M. RĂDUCĂ, M. M. ZAHARIA and M. ANDRUH | 217 |
| Synthesis and spectroscopic properties of novel indolizines and azaindolizines, A. NICOLESCU, A. AIRINEI, E. GEORGESCU, F. GEORGESCU, R. TIGOIANU, F. DUMITRASCU, M. M. POPA, A. T. MARINOIU and C. DELEANU | 241 |
| Synthesis, characterization and adsorption behaviors of modified bentonite towards methylene blue, A. BELBEL, C. ZAOUCHE and N. DJEBBARI | 481 |
| Synthesis, characterization, antibacterial and antioxidant activity of 1,5-bis(6-chloro-1H-benzimidazol-2-yl)pentan-3-one and its Fe(III), Co(II), Ni(II), Cu(II), Zn(II) and Ru(II) complexes, A. TAVMAN, D. GÜRBÜZ, A. AKTAŞ KARAÇELİK, B. ERTAN and A. ÇINARLI | 547 |
| Synthesis, characterization, electrochemical and antibacterial studies of MN4-type macrocyclic complexes of Ni(II), V. K. VASHISTHA, A. MITTAL, R. BALA, D. K. DAS and P. P. SINGH | 447 |

T

| | |
|---|-----|
| Tetrahedral angles of six membered ring calculated from NMR data with 3-sphere approach, C.-I. MITAN, E. BARTHA and P. FILIP | 269 |
| The fluorescence signal of albumin-bound bilirubin to monitor drug-induced bilirubin displacement from human serum albumin, S. TAYYAB, J. W. Q. TIO and A. A. ABD HALIM | 429 |
| The influence of water absorption on reinforced polymers (FRP) using MWCNT and HGB, A.-I. PERDUM and A. BANU ... | 101 |
| The power of novel morpholinyl Mannich bases to protect N80 steel against corrosion in acidic environment: DFT and SAR investigations, K. KOUSHKAR, A. KHIOUANI, S. E. HACHANI, Y. BOUMEDJANE, A. MEKLID and S. MAKHLOUFI | 569 |
| The study of expired pharmaceutical drugs as corrosion inhibitor for carbon steel in acidic media using the design of experiment, B. NACEUR, T. ATTAR, A. BENCHADLI and E. CHOUKCHOU-BRAHAM | 515 |
| Three dimensions advection-diffusion equation in unstable condition, K. S. M. ESSA, S. I. M. EL SAID | 507 |

Z

| | |
|---|----|
| Zn(OAc) ₂ ·2H ₂ O-catalyzed green synthesis of substituted 1-amido/thioamidoalkyl-2-naphthols, P. R. TOTAWAR, R. VARALA and J. S. PULLE | 75 |
|---|----|

