AUTHOR INDEX

Abdollahi, A., See Toshev et al. 209
Abu Sayeed, M., Sultan, Md. Z., Mehedi Masud, M., Rashid, M. A., Akhter Simo, H., Gatifloxacin metal complexes: spectroscopic, thermal, and X-ray structural analysis with antimicrobial evaluation 461
Acknowledgement to Reviewers for vol. 57 120
Adsul, V., See Gaikwad et al. 74
Agova, N. V., See Toshev et al. 209
Akdemir, K., Gonultas, H., Isik, B. K., Tugrul, N., Synthesis and characterization of eco-friendly edible films based on pistachio shell 331
Akhter Simo, H., See Abu Sayeed et al. 461
Akyol, E., See Saleha et al. 315
Akyol, E., See Simsek et al. 310, 382
Aleksandrova, D., See Idakiev et al. 30
Al-Mahmoud, S. M., Electrode shape modification for efficient dye removal using electrocoagulation 129
Amir, B., See Tusseyev et al. 103
Amran, F., See Rahaman et al. 482
Anbumeenakshi, C., See Kumutha et al. 93
Angelova, D. S., See Zheleva et al. 218
Aslan, S. K., See Çolak et al. 291
Athare, A. E., See Deshpande et al. 442
Authors index 565
Awari, S. M., Vikhe, V. V., Vikhe, V. K., Gadhave, A. G., Uphade, B. K., $NiFe_2O_4$@Cellulose-PEG nanocomposite: A novel reusable catalyst for straightforward one-pot synthesis of benzopyran derivatives 154
Bahçeci, D., See Demir et al. 286
Baizhumanov, K. D., See Tusseyev et al. 103
Balabanov, A., See Boyanova et al. 23
Balakumar, M., See Kumutha et al. 93
Bektaş, T. E., See Yiğit et al. 364
Benhebal, H., See Rabiaa et al. 136
Bondartsev, D. Yu., See Genbach et al. 109
Boukoureshtlieva, R., See Nikolov et al. 550
Boyanova, P., Chavdarova, A., Dobreva, V., Gradinarska, D., Goranov, B., Balabanov, A., Slavova, V., Impact of polyols on microbiological viability and sweetness perception in frozen yogurt 23
Boye, G., See Idakiev et al. 30
Cagliyan, Y., Ozyalcin, Z. O., Kipcak, A. S., Freeze drying of manila clam: drying kinetics and mathematical modelling 247
Catal, T., See Hayrat et al. 37
Çetin, B., See Çolak et al. 291
Chavdarova, A., See Boyanova et al. 23
Çolak, E., Çetin, B., Kurçin, H. C., Aslan, S. K., Ünlü, D., Nigiz, F. U., Synthesis and characterization of polydopamine-modified MOFs for polymer electrolyte membranes 291
Çorbacıoğlu, B. D., See Özgündüz et al. 320
Demir, A. B., Bahçeci, D., Özer, S., Şahin, Ö. Y., Şakar, D., Preparation and analysis of an herbal extract solution having potential restorative effects against radiation dermatitis 286
Demir, K., See Tumtum et al. 391
Derun, E. M., See Uygunoz et al. 297, 303
Deshmukh, S. S., See Deshpande et al. 442
Deshpande, M. S., Sonawane, D. V., Deshmukh, S. S., Athare, A. E., Photocatalytic degradation of azo dye (Congo red) using aluminum-doped cadmium oxide nanoparticles 442
Dimitrova, T. L., See Yari Dramane et al. 16
Dinesh Kumar, V., Sammaiah, P., Hemadri, V. B., Advancements in polylactic acid (PLA) biocomposites: a review on reinforcement, additive manufacturing, and prospects for a sustainable future 476
Dishliev, A., See Georgieva et al. 52, 59
Diukendjieva-Todorova, A. G., See Tsakovska et al. 504
Dobreva, A. M., See Nenova et al. 66
Dobreva, V., See Boyanova et al. 23
Dökmeci, A. H., See Eren et al. 261
Durrani, A., See Takankhar et al. 559
Enisoglu Atalay, V., See Hayrat et al. 37
Ercan, O., Ozyalcin, Z. O., Kipcak, A. S., Rehydration characteristics of freeze-dried mussel, shrimp and squid 254
Eren, B., Dökmeci, A. H., Degradation mechanisms of selected aminopolycarboxylic acid molecules by DFT method 261
Eren, B., See Sabudak et al. 386
Ergul, C., Kurumoglu, S., Yalcin Gurkan, Y., Brain penetration in CNS and non-CNS drugs using molecular electronic parameters 377
Eswara Rao, M., See Gnaneswara Reddy et al. 85
Farcy, A., See Rabiaa et al. 136
Först, P., See Idakiev et al. 30
Gadhave, A. G., See Awari et al. 154
Gaikwad, S. A., Khatiwora, E., Adsul, V., Torane, R., Uttam Pandit, V. R., Parthibavarman, M., Comparative account of biosynthesized zinc oxide nanomaterials from Cassia tora for biomedicament 74
Gavrilov, I., Petrin, S., Mileva-Petrova, P., Radeva, G., Valchev, I., Temperature-time and concentration dependences of mild dilute acid hydrolysis 189
Gavrilov, I., See Petrin et al. 185
Genbach, A. A., Bondartsev, D. Yu., Georgiev, A. G., Investigation of capillary-porous coatings made of mineral media 109
Georgiev, A. G., See Genbach et al. 109
Georgieva, M., Kozhukharov, S., Girginov, Ch., Dishliev, A., Petkov, P., Comparison between ortho- and meta-phosphoric acid containing phosphate potential buffering systems 59
Georgieva, M., Kozhukharov, S., Girginov, Ch., Dishliev, A., Petkov, P., Potential buffers based on borax, orthophosphoric and metaphosphoric acid 52
Georgieva, S. F., See Toshev et al. 209

Georgieva, S., See Stancheva et al. 200
Gheewala, A., Mistry, H., Solanki, A., Hydrogen as a strategic energy transition pathway: production technologies, cost dynamics, infrastructure, policy and India's statistical roadmap to 2030 and 2050 523
Girginov, Ch., See Georgieva et al. 52, 59
Gnaneswara Reddy, M., Kiranmaiye, S., Eswara Rao, M., Stefan blowing and chemical reaction influences on non-Darcian flow of Casson nanofluid over a stretched surface..... 85
Gonultas, H., See Akdemir et al. 331
Goranov, B., See Boyanova et al. 23
Gradinarska, D., See Boyanova et al. 23
Gürakin, H. K., See Şakar et al. 281
Gurkan, B., See Kemanci et al. 370
Hayrat, N., Kilinc, B., Yilmaz, B., Kul, A., Tarbiat, Sh., Enisoglu Atalay, V., Catal, T., Investigation of antioxidant activities of *Ganoderma* mushroom..... 37
Hemadri, V. B., See Dinesh Kumar et al. 476
Idakiev, H., Aleksandrova, D., Boye, G., Först, P., Vorhauer-Huget, N., Impact of drying techniques on protein denaturation in *Tenebrio molitor*: A thermal analysis via differential scanning calorimetry 30
Idrish Khan, A., See Kumutha et al. 93
Ilaiyavel, S., See Kumutha et al. 93
Iliev, I. R., See Toshev et al. 209
Iliev, I., See Stancheva et al. 200
In Memoriam Dedicated to the memory of Prof. DSc Dimitar Mehandzhiev (1933-2026)..... i
İpsalalı, Ö., Okyay, B., Nigiz, F. U., From orange peel to sustainable biocomposite: production and characterization of pectin/CMC films with matcha tea extract 336
Isik, B. K., See Akdemir et al. 331
Isik, B. K., See Menekse et al. 269
Işık, Ö., See İşman et al. 341
İşlek, D. S., Kiriş, E., Şen Yılmaz, A., Köse, E., Forensic identification of pen ink pigments using dual-wavelength Raman spectroscopy combined with chemometrics..... 276
Ismaili Uka, D., See Özbakiş et al. 396
İşman, N., Işık, Ö., Terzioğlu, P., Orhan, M., Effect of tannic acid concentration on structural, mechanical, and antibacterial properties of polyvinyl alcohol/chitosan/pomegranate peelbased biocomposite films..... 341
Kadi, S., See Rabiaa et al. 136
Kahraman, S., Özbey, E., Uzun, S., Nigiz, F. U., Production and characterization of a doublelayered wound dressing containing electrospun polylactic acid and hypericum-infused alginate hydrogel 358
Kahraman, S., See Yiğit et al. 364
Kalinov, K. N., See Nenova et al. 66
Karabekiroğlu, S. N., See Kocaoğlu et al. 351
Katirci, A., Nigiz, F. U., Production of desalination membranes from recycled PVDF polymers..... 241
Kemanci, B., Kurumoglu, S., Gurkan, B., Investigation of the correlation between skin permeation and global reactivity descriptors in phenolic antioxidants: a comparative DFT and ADMET study 370
Keyf, S., See Özgündüz et al. 320
Khatiwora, E., See Gaikwad et al. 74
Kilinc, B., See Hayrat et al. 37
Kipcak, A. S., See Cagliyan et al. 247
Kipcak, A. S., See Ercan et al. 254
Kıpçak, E., Comparative evaluation of infrared and microwave drying of berries: kinetics, diffusivity, and modeling approaches 401
Kiranmaiye, S., See Gnaneswara Reddy et al. 85
Kiriş, E., See İşlek et al. 276
Kocaoğlu, M., Karabekiroğlu, S. N., Activated carbon from gypsophila roots: a sustainable adsorbent for dye removal..... 351
Köse, E., See İşlek et al. 276
Kozhukharov, S., See Georgieva et al. 52, 59
Kucuk, İ., See Simsek et al. 382
Küçük, İ., See Tavlıbıyık et al. 325
Kul, A., See Hayrat et al. 37
Kumutha, R., Ilaiyavel, S., Sudhakar, B., Udhayakumar, K., Balakumar, M., Anbumeenakshi, C., Idrish Khan, A., Suresh, K., Enhanced wear resistance of AISI steel via sequential nitriding, laser texturing, and TiN coating..... 93
Kurçin, H. C., See Çolak et al. 291
Kurumoglu, S., See Ergul et al. 377
Kurumoglu, S., See Kemanci et al. 370
Kurumoglu, S., See Tumtum et al. 391
Kuzeva, S., See Petrin et al. 185
Lambert, S. D., See Rabiaa et al. 136
Lellou, S., See Rabiaa et al. 136
Lozanov, I. I., See Stamenov et al. 431
Madjarova, G. K., See Petkova et al. 193
Mahy, J. G., See Rabiaa et al. 136
Mathiarasu, A., Suresh Kumar, S., Senthil, R., Pandian, R.,Chemical characterization and performance analysis of post-modified microwave pyrolyzed karanja seed bio-oil..... 5
Matrakova, M., See Nikolov et al. 550
Mehedi Masud, M., See Abu Sayeed et al. 461
Menekse, A., Isik, B. K., Tugrul, N., Utilization of sugar beet pulp as an agricultural by-product in vegan leather production 269
Merdzhanova, A., See Stancheva et al. 200
Mijakov, I., See Petkova et al. 193
Mileva-Petrova, P., See Gavrilov et al. 189
Mileva-Petrova, P., See Petrin et al. 185
Mistry, H., See Gheewala et al. 523
Mladenova, B., See Nikolov et al. 550
Mohanavel, V., See Suresh Kumar et al. 515
Muniyappan, A., See Samraj Selvaraj et al. 173
Navgire, M. E., See Padol et al. 436
Nedeva, D. A., See Nenova et al. 66
Nenova, R. H., Nedeva, D. A., Dobreva, A. M., Shimazaki, T. I., Kalinov, K. N., A comparative study of the chemical composition of oil–bearing

Rosa damascena Mill. cultivated in Bulgaria and in Japan 66
Nguyen, H. D., Computational modelling of limonoids from *Melia azedarach* as potential inhibitors of leukemia 162
Nguyen, H. D., Integrated *in silico* discovery of anti-apoptotic sesquiterpenoid candidates from *Inula japonica* against hepatocarcinoma 451
Nguyen, H. D., Unveil mechanism of action of parthenolide-9-one as an inhibitor for human erythroleukemia via molecular modeling, ADMET and MMGBSA analysis 44
Nguyen, H. D., Unveiling breast cancer therapeutics of bufadienolides from *Helleborus foetidus* through molecular docking, molecular dynamics, and MMGBSA computations 492
Nguyen, H. D., Unveiling mechanisms of action of isoquinoline alkaloids from *Hylomecon japonica* as promising inhibitors of breast cancer through computational modelling 143
Nigiz, F. U., See Çolak et al. 291
Nigiz, F. U., See İpsalalı et al. 336
Nigiz, F. U., See Kahraman et al. 358
Nigiz, F. U., See Katirci et al. 241
Nikolov, P., Mladenova, B., Matrakova, M., Stankulov, T., Boukoureshtlieva, R., Soserov, L., Impact of polyvinylpyrrolidone as an additive to the positive electrolyte of a vanadium redox flow battery 550
Okyay, B., See İpsalalı et al. 336
Orhan, M., See İşman et al. 341
Özbakiş, M., Ismaili Uka, D., Terzioğlu, P., Sicak, Y., Sustainable and bioactive chitosan/PVA hydrogels incorporating allantoin for wound healing applications 396
Özbey, E., See Kahraman et al. 358
Ozcelik, C., See Sabudak et al. 386
Ozdemir, R., Unlu, D., Synthesis and characterization of boron-containing benzoxazine resins for advanced thermal protection systems 347
Özer, S., See Demir et al. 286
Özgündüz, H. İ., Çorbacıoğlu, B. D., Keyf, S., Modıfıcatıon of bıtumen by addıng reactıve terpolymer, polyolefin elastomer and thermoplastic 320
Ozyalcin, Z. O., See Cagliyan et al. 247
Ozyalcin, Z. O., See Ercan et al. 254
Padol, A. R., Navgire, M. E., Raut, M. A., Design and biological evolution of La_2O_3-ZnO mixed metal oxide nanomaterials for anticancer activity against MCF-7 cell lines 436
Pajeva, I. K., See Tsakovska et al. 504
Pandian, R., See Mathiarasu et al. 5
Parthibavarman, M., See Gaikwad et al. 74
Petkov, P., See Georgieva et al. 52, 59
Petkova, J. N., Mijakov, I., Simeonova, E. P., Madjarova, G. K., Quantum chemical insights into porous s-triazine and tri-s-triazine carbon nitrides 193
Petrin, S., Kuzeva, S., Gavrilov, I., Radeva, G., Mileva-Petrova, P., Valchev, I., Kinetic study of softwood cooking for bleached pulp production 185
Petrin, S., See Gavrilov et al. 189
Rabiaa, H. N. E., Benhebal, H., Sebbah, O., Kadi, S., Lellou, S., Farcy, A., Mahy, J. G., Lambert, S. D., Zn-doped $SrBi_2O_4$ nanopowders prepared by sol-gel method and their photocatalytic properties 136
Radeva, G., See Gavrilov et al. 189
Radeva, G., See Petrin et al. 185
Rahaman, T. F., Amran, F., Zaini, M. A. A., Fitting and interpretation of equilibrium and kinetic models, and two-stage adsorber design of condensate-based adsorbents for methylene blue removal 482
Rashid, M. A., See Abu Sayeed et al. 461
Raut, M. A., See Padol et al. 436
Sabudak, T., Eren, B., Ozcelik, C., Determination of the chemical composition of the essential oil of the Rubia tinctorum plant 386
Şahin, Ö. Y., See Demir et al. 286
Şakar, D., Gürakin, H. K., Removing disperse orange 30 dye from simulated wastewater using formaldehyde-stabilized quince leaf powder bioadsorbent 281
Şakar, D., See Demir et al. 286
Saleha, N. A., Akyol, E., Sustainable heavy metal ion detection of waste-based carbon quantum dots 315
Sammaiah, P., See Dinesh Kumar et al. 476
Samraj Selvaraj, A., Sanmugam, A., Muniyappan, A., Optimization and performance evaluation of hydroxyapatite–magnesium oxide coatings on UHMWPE for improved tribological and antibacterial behavior in orthopaedic applications 173
Sanmugam, A., See Samraj Selvaraj et al. 173
Sebbah, O., See Rabiaa et al. 136
Şen Yılmaz, A., See İşlek et al. 276
Sengor, I., See Uygunoz et al. 297, 303
Senthil, R., See Mathiarasu et al. 5
Sharipkhanov, A. B., See Tusseyev et al. 103
Shimazaki, T. I., See Nenova et al. 66
Sicak, Y., See Özbakiş et al. 396
Simeonova, E. P., See Petkova et al. 193
Simeonova, G. V., Trifonova, T. P., Chelation reaction vs. isotope exchange for production of effective receptor-targeted radiopharmaceuticals 226
Simsek, S., Akyol, E., Kucuk, İ., Comparison of the effects of cellulase, pectinase, and xylenase enzymes on the total flavonoid content of *Helichrysum arenarium* extract obtained by enzymatically pre-treated Soxhlet extraction 382
Simsek, S., Usoğlu, O. Y., Akyol, E., Evaluation of the inhibitory effects of phenolic compoundson calcium oxalate crystallization 310
Slavova, V., See Boyanova et al. 23
Slavova, V., See Yari Dramane et al. 16
Solanki, A., See Gheewala et al. 523
Sonawane, D. V., See Deshpande et al. 442
Soserov, L., See Nikolov et al. 550

Stamenov, N., Lozanov, I. I., UV-Vis spectrometer from scratch: a budget do-it-yourself solution to a growing problem..... 431
Stancheva, R., Iliev, I., Merdzhanova, A., Georgieva, S., Computational evaluation of COX-1 binding by EPA, DHA, and AA using blind and flexible docking approaches..... 200
Stankulov, T., See Nikolov et al..... 550
Sudhakar, B., See Kumutha et al..... 93
Sultan, Md. Z., See Abu Sayeed et al. 461
Suresh Kumar, S., Mohanavel, V., Parametric optimization of ZK60 reinforced with ZrB_2 magnesium composites via Taguchi method 515
Suresh Kumar, S., See Mathiarasu et al..... 5
Suresh, K., See Kumutha et al. 93
Suthagar, S., Tamilselvan, K. S., Comparing odor-active compounds of South Indian mangoes by odor uproot blend analysis and the natural aroma instantaneous input to the sniffing port method for evaluating odor interactions 421
Takankhar, K., Durrani, A., One-pot synthesis of pyrano chromene carbonitriles catalyzed by $NiFe_2O_4$ nanoparticles and their anticancer potential 559
Tamilselvan, K. S., See Suthagar et al..... 421
Tarbiat, Sh., See Hayrat et al. 37
Tavlıbıyık, O., Küçük, İ., Effect of hemp filler on the mechanical and physical properties of PLA/PBAT composite films..... 325
Terzioğlu, P., See İşman et al..... 341
Terzioğlu, P., See Özbakiş et al. 396
Torane, R., See Gaikwad et al..... 74
Toshev, N. A., Iliev, I. R., Agova, N. V., Abdollahi, A., Georgieva, S. F., Computational evaluation of bexarotene alkyl esters through DFT and molecular docking..... 209
Trifonova, T. P., See Simeonova et al. 226
Tsakovska, I. M., Diukendjieva-Todorova, A. G., Pajeva, I. K., Advances in predictive toxicology for androgen receptor–mediated endocrine disruption 504
Tugrul, N., See Akdemir et al. 331
Tugrul, N., See Menekse et al. 269
Tumtum, G., Demir, K., Kurumoglu, S., Yalcin Gurkan, Y., Reactivity and ecotoxicity of the next-generation herbicide flufenauxirim: a density functional theory (DFT) and quantitative structure-activity relationship (QSAR) study with reference to aminocyclopyrachlor..... 391
Tusseyev, T., Baizhumanov, K. D., Zhumanov, M. A., Amir, B., Sharipkhanov, A. B., Photoadsorption processes on the surface of silicon dioxide..... 103
Udhayakumar, K., See Kumutha et al. 93
Uğur Nigiz, F., See Yiğit et al..... 364
Ünlü, D., See Çolak et al. 291
Unlu, D., See Ozdemir et al. 347
Uphade, B. K., See Awari et al. 154
Usoğlu, O. Y., See Simsek et al. 310
Uttam Pandit, V. R., See Gaikwad et al..... 74
Uygunoz, D., Sengor, I., Derun, E. M., Biomass energy production from sunflower plant 303
Uygunoz, D., Sengor, I., Derun, E. M., Natural pigments doped polymer films synthesis by solution casting method and characterization..... 297
Uzun, S., See Kahraman et al..... 358
Valchev, I., See Gavrilov et al. 189
Valchev, I., See Petrin et al..... 185
Vikhe, V. K., See Awari et al..... 154
Vikhe, V. V., See Awari et al..... 154
Vorhauer-Huget, N., See Idakiev et al..... 30
Yalcin Gurkan, Y., See Ergul et al. 377
Yalcin Gurkan, Y., See Tumtum et al. 391
Yari Dramane, T., Slavova, V., Yasar, A., Dimitrova, T. L., Discrimination of radish seed cultivars using fluorescence spectroscopy and advanced machine learning algorithms 16
Yasar, A., See Yari Dramane et al..... 16
Yiğit, S., Bektaş, T. E., Kahraman, S., Uğur Nigiz, F., Synthesis and in vitro characterization of quercetin-loaded alginate-keratin composite hydrogels for enhanced wound healing applications..... 364
Yilmaz, B., See Hayrat et al..... 37
Zaini, M. A. A., See Rahaman et al..... 482
Zheleva, D. I., Angelova, D. S., Deposition of zinc nanoparticles on woolen substrates in footwear 218
Zhumanov, M. A., See Tusseyev et al. 103