

## Publications of Chemistry department: 2020

Scopus

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Touqeer, T., Mumtaz, M.W., Mukhtar, H., Irfan, A., Akram, S., Shabbir, A., Rashid, U., Nehdi, I.A., Yaw Choong, T.S.

Fe<sub>3</sub>O<sub>4</sub>-PDA-lipase as surface functionalized nano biocatalyst for the production of biodiesel using waste cooking oil as feedstock: Characterization and process optimization

(2020) Energies, 13 (1), art. no. 177, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077470421&doi=10.3390%2fen13010177&partnerID=40&md5=198a4b90994b84fdb27aa13012ae14dd>

DOI: 10.3390/en13010177

DOCUMENT TYPE: Article

SOURCE: Scopus

Mukhtar, A., Saqib, S., Mellon, N.B., Rafiq, S., Babar, M., Ullah, S., Muhammad, N., Khan, A.L., Ayoub, M., Ibrahim, M., Maqsood, K., Bustam, M.A., Al-Sehemi, A.G., Klemeš, J.J., Asif, S., Bokhari, A.

A review on CO<sub>2</sub> capture via nitrogen-doped porous polymers and catalytic conversion as a feedstock for fuels

(2020) Journal of Cleaner Production, 277, art. no. 123999, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090947887&doi=10.1016%2fj.jclepro.2020.123999&partnerID=40&md5=e7a27ac258e2c1432298db0450c0d3ee>

DOI: 10.1016/j.jclepro.2020.123999

DOCUMENT TYPE: Review

SOURCE: Scopus

Khalid, M., Ali, A., Abid, S., Tahir, M.N., Khan, M.U., Ashfaq, M., Imran, M., Ahmad, A.

Facile Ultrasound-Based Synthesis, SC-XRD, DFT Exploration of the Substituted Acyl-Hydrazones: An Experimental and Theoretical Slant towards Supramolecular Chemistry

(2020) ChemistrySelect, 5 (47), pp. 14844-14856.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097732854&doi=10.1002%2fslct.202003589&partnerID=40&md5=d1ae4cc390a0bb023742cb8aa12ed21f>

DOI: 10.1002/slct.202003589

DOCUMENT TYPE: Article

SOURCE: Scopus

Chafiq, M., Chaouiki, A., Albayati, M.R., Lgaz, H., Salghi, R., AbdelRaheem, S.K., Ali, I.H., Mohamed, S.K., Chung, I.-M.

Unveiled understanding on corrosion inhibition mechanisms of hydrazone derivatives based on naproxen for mild steel in HCl: A joint experimental/theoretical study

(2020) Journal of Molecular Liquids, 320, art. no. 114442, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092893910&doi=10.1016%2fj.molliq.2020.114442&partnerID=40&md5=ba872c807f917186ad7a20c246b411b9>

DOI: 10.1016/j.molliq.2020.114442

DOCUMENT TYPE: Article

SOURCE: Scopus

Chaouiki, A., Chafiq, M., Rbaa, M., Salghi, R., Lakhrissi, B., Ali, I.H., Bashir, S., Chung, I.-M.

Comprehensive assessment of corrosion inhibition mechanisms of novel benzimidazole compounds for mild steel in HCl: An experimental and theoretical investigation

(2020) Journal of Molecular Liquids, 320, art. no. 114383, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092317286&doi=10.1016%2fj.molliq.2020.114383&partnerID=40&md5=cdb7886dd90b0e54a227f5b2db6825e5>

DOI: 10.1016/j.molliq.2020.114383

DOCUMENT TYPE: Article

SOURCE: Scopus

Abboud, M., Sahlabji, T., Eissa, M., Bel-Hadj-Tahar, R., Mubarak, A.T., Al-Zaqri, N., Hamdy, M.S.

Nickel(II)dibenzotetramethyltetraaza[14]annulene complex immobilized on amino-functionalized TUD-1: An efficient catalyst for immediate and quantitative epoxidation of cyclohexene under ambient conditions

(2020) New Journal of Chemistry, 44 (46), pp. 20137-20147.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097761002&doi=10.1039%2fd0nj03822a&partnerID=40&md5=5228d414327858c43404fd0ad2df8eab>

DOI: 10.1039/d0nj03822a

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SOURCE: Scopus

Bejaoui, L., Brahmia, A., Marzouki, R., Dusek, M., Eigner, V., Serdaroğlu, G., Kaya, S., Bour, M.E., Hassen, R.B.

Synthesis, crystal structure, hirshfeld surface analysis, spectroscopic, biological and first-principles studies of novel aminocoumarins

(2020) Journal of Molecular Structure, 1221, art. no. 128862, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088013443&doi=10.1016%2fj.molstruc.2020.128862&partnerID=40&md5=d9daadb83fb4412a57ed203c90c5cf34>

DOI: 10.1016/j.molstruc.2020.128862

DOCUMENT TYPE: Article

SOURCE: Scopus

Abad, N., Lgaz, H., Atioglu, Z., Akkurt, M., Mague, J.T., Ali, I.H., Chung, I.-M., Salghi, R., Essassi, E.M., Ramli, Y.

Synthesis, crystal structure, hirshfeld surface analysis, DFT computations and molecular dynamics study of 2-(benzyloxy)-3-phenylquinoxaline

(2020) Journal of Molecular Structure, 1221, art. no. 128727, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087334795&doi=10.1016%2fj.molstruc.2020.128727&partnerID=40&md5=82dca674220fc8ffec71e57aafd66baf>

DOI: 10.1016/j.molstruc.2020.128727

DOCUMENT TYPE: Article

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El aoufir, Y., Zehra, S., Lgaz, H., Chaouiki, A., Serrar, H., Kaya, S., Salghi, R., AbdelRaheem, S.K., Boukhris, S., Guenbour, A., Chung, I.-M.

Evaluation of inhibitive and adsorption behavior of thiazole-4-carboxylates on mild steel corrosion in HCl

(2020) Colloids and Surfaces A: Physicochemical and Engineering Aspects, 606, art. no. 125351, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089188702&doi=10.1016%2fj.colsurfa.2020.125351&partnerID=40&md5=8db20a43b957e29a2c1d2a68d48811b6>

DOI: 10.1016/j.colsurfa.2020.125351

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Abboud, M.

Immediate epoxidation of cyclohexene at room temperature using mesoporous flower-like NiO nanoparticles

(2020) Reaction Kinetics, Mechanisms and Catalysis, 131 (2), pp. 781-792.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090796109&doi=10.1007%2fs11144-020-01864-y&partnerID=40&md5=6ae7de6b8476abd2246fd5c57eae137e>

DOI: 10.1007/s11144-020-01864-y

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Tasqeeruddin, S., Asiri, Y.I., Mujahid Alam, M.

Ammonium chloride: An efficient and environmentally benign catalyst for Knoevenagel condensation of carbonyl and active methylene compounds

(2020) Asian Journal of Chemistry, 32 (12), pp. 3024-3028.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098665436&doi=10.14233%2fajchem.2020.22879&partnerID=40&md5=f9afdb8f86bd7573fa06b1c234344361>

DOI: 10.14233/ajchem.2020.22879

DOCUMENT TYPE: Article

SOURCE: Scopus

Shah Raj Ali, Kalam, A., Al-Sehemi, A.G., Khan, Z., Ansari, S., Haider, N., Kumar, R.

Zirconium-Ferrite Nanoparticles As Improved Adsorbent for Co<sup>2+</sup>, Cu<sup>2+</sup>, and Zn<sup>2+</sup>: Thermodynamic and Kinetic Studies

(2020) Russian Journal of Physical Chemistry A, 94 (13), pp. 2797-2809.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097099917&doi=10.1134%2fS003602442013004X&partnerID=40&md5=efd40da2939482ec3ea9877e22786a9d>

DOI: 10.1134/S003602442013004X

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Al-Sehemi, A.G., Allami, S.A.S., Kalam, A.

Design and synthesis of organic dyes with various donor groups: promising dyes for dye-sensitized solar cells

(2020) Bulletin of Materials Science, 43 (1), art. no. 224, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089589447&doi=10.1007%2fs12034-020-02198-0&partnerID=40&md5=43f1b3c5e53bb580b2635554c4b697dd>

DOI: 10.1007/s12034-020-02198-0

DOCUMENT TYPE: Article

SOURCE: Scopus

Al Mesfer, M.K., Danish, M., Ali, I.H., Khan, M.I.

Adsorption behavior of molecular sieve 3 Å and silica gel for CO<sub>2</sub> separation: equilibrium, breakthrough and mass transfer zone

(2020) Heat and Mass Transfer/Waerme- und Stoffuebertragung, 56 (12), pp. 3243-3259.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088873622&doi=10.1007%2fs00231-020-02923-9&partnerID=40&md5=4296119651c32af1cd258835178b5353>

DOI: 10.1007/s00231-020-02923-9

DOCUMENT TYPE: Article

SOURCE: Scopus

Sahlabji, T., Abboud, M., Bel-Hadj-Tahar, R., Hamdy, M.S.

Spontaneous epoxidation of styrene catalyzed by flower-like NiO nanoparticles under ambient conditions

(2020) Journal of Nanoparticle Research, 22 (12), art. no. 364, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097088948&doi=10.1007%2fs11051-020-05098-w&partnerID=40&md5=111e929d0c819c452e8684cfa21fbd94>

DOI: 10.1007/s11051-020-05098-w

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SOURCE: Scopus

Ahmad, F., Zulkurnain, E.S.B., Ullah, S., Al-Sehemi, A.G., Raza, M.R.

Improved fire resistance of boron nitride/epoxy intumescent coating upon minor addition of nano-alumina

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DOI: 10.1016/j.matchemphys.2020.123634

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SOURCE: Scopus

Wazzan, N., Irfan, A.

Promising architectures modifying the D- $\pi$ -A architecture of 2,3-dipentylidithieno[3,2-f:2',3'-h]quinoxaline-based dye as efficient sensitizers in dye-sensitized solar cells: A DFT study

(2020) Materials Science in Semiconductor Processing, 120, art. no. 105260, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087768009&doi=10.1016%2fj.mssp.2020.105260&partnerID=40&md5=eabcf77cf982ab736441fcccaf d35aec>

DOI: 10.1016/j.mssp.2020.105260

DOCUMENT TYPE: Article

SOURCE: Scopus

Hasan, I., Shekhar, C., Alharbi, W., Khanjer, M.A., Khan, R.A., Alsalmeh, A.

A highly efficient Ag nanoparticle-immobilized alginate-g-polyacrylonitrile hybrid photocatalyst for the degradation of nitrophenols

(2020) Polymers, 12 (12), art. no. 3049, pp. 1-22.

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DOI: 10.3390/polym12123049

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SOURCE: Scopus

Abd-Rabboh, H.S.M., Kamel, A.H., Amr, A.E.-G.E.

All-solid-state calcium sensors modified with polypyrrol (PPY) and graphene oxide (GO) as solid-contact ion-to-electron transducers

(2020) *Chemosensors*, 8 (4), art. no. 93, pp. 1-12.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092520124&doi=10.3390%2fchemosensors8040093&partnerID=40&md5=abbbc6d6b0f4a206a34f867bfd354d1d>

DOI: 10.3390/chemosensors8040093

DOCUMENT TYPE: Article

SOURCE: Scopus

El Jery, A., Hasan, M., Rashid, M.M., Al Mesfer, M.K., Danish, M., Ben Rebah, F.

Phytochemical characterization, and antioxidant and antimicrobial activities of essential oil from leaves of the common sage *Salvia officinalis* L. From Abha, Saudi Arabia

(2020) *Asian Biomedicine*, 14 (6), pp. 261-270.

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SOURCE: Scopus

Benaissa, M., Alhanash, A.M., Eissa, M., Aldalbahi, A., Alzahly, S., Rahaman, M., Periyasami, G., Hamdy, M.S.

The effect of mesoporous support on the catalytic performance of Pd nanoparticles in the hydrogenation of cyclopentene

(2020) *Journal of Porous Materials*, 27 (6), pp. 1735-1743.

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DOI: 10.1007/s10934-020-00949-2

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Irfan, A., Al-Zeidaneen, F.K., Ahmed, I., Al-Sehemi, A.G., Assiri, M.A., Ullah, S., Abbas, G.

Synthesis, characterization and quantum chemical study of optoelectronic nature of ferrocene derivatives

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DOI: 10.1007/s12034-019-1992-0

DOCUMENT TYPE: Article

SOURCE: Scopus

Irfan, A., Imran, M., Thomas, R., Mumtaz, M.W., Qayyum, M.A., Ullah, S., Assiri, M.A., Al-Sehemi, A.G.

Exploration of electronic nature and intrinsic mobility of 10-(1,3-dithiol-2-ylidene)anthracene based organic semiconductor materials

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DOI: 10.1016/j.ijleo.2020.165530

DOCUMENT TYPE: Article

SOURCE: Scopus

Hussain, R., Imran, M., Mehboob, M.Y., Ali, M., Hussain, R., Khan, M.U., Ayub, K., Yawer, M.A., Saleem, M., Irfan, A.

Exploration of adsorption behavior, electronic nature and NLO response of hydrogen adsorbed Alkalis (Li, Na and K) encapsulated Al<sub>12</sub>N<sub>12</sub>nanocages

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DOI: 10.1142/S0219633620500315

DOCUMENT TYPE: Article

SOURCE: Scopus

Al-Ahmed, Z.A., Hassan, A.A., El-Khouly, S.M., El-Shafey, S.E.

TEMPO-oxidized cellulose nanofibers/TiO<sub>2</sub> nanocomposite as new adsorbent for Brilliant Blue dye removal

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DOI: 10.1007/s00289-019-03068-4

DOCUMENT TYPE: Article

SOURCE: Scopus

Menazea, A.A., Awwad, N.S., Ibrahim, H.A., Ahmed, M.K.

Casted polymeric blends of carboxymethyl cellulose/polyvinyl alcohol doped with gold nanoparticles via pulsed laser ablation technique; morphological features, optical and electrical investigation

(2020) Radiation Physics and Chemistry, 177, art. no. 109155, .

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DOI: 10.1016/j.radphyschem.2020.109155

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Nishan, U., Gul, R., Muhammad, N., Asad, M., Rahim, A., Shah, M., Iqbal, J., Uddin, J., Ali Shah, A.-U.-H., Shujah, S.

Colorimetric based sensing of dopamine using ionic liquid functionalized drug mediated silver nanostructures

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089344101&doi=10.1016%2fj.microc.2020.105382&partnerID=40&md5=a30ec123bdd91c1cd8ea2418c1439ddc>

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Ibrahim, Y.M., Abouwarda, A.M., Nasr, T., Omar, F.A., Bondock, S.

Antibacterial and anti-quorum sensing activities of a substituted thiazole derivative against methicillin-resistant *Staphylococcus aureus* and other multidrug-resistant bacteria

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090857297&doi=10.1016%2fj.micpath.2020.104500&partnerID=40&md5=ba3d4833fe1739d26a4ed26c3151672c>

DOI: 10.1016/j.micpath.2020.104500

DOCUMENT TYPE: Article

SOURCE: Scopus

Ebrahim, A.M., Idris, A.M., Alnajjar, A.O., Michalke, B.

Cr and Mn total, accessible species, and protein-fraction contents in plants used for traditional anti-diabetes treatment

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DOCUMENT TYPE: Article

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Pooventhiran, T., Bhattacharyya, U., Rao, D.J., Chandramohan, V., Karunakar, P., Irfan, A., Mary, Y.S., Thomas, R.

Detailed spectra, electronic properties, qualitative non-covalent interaction analysis, solvatochromism, docking and molecular dynamics simulations in different solvent atmosphere of cenobamate

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DOI: 10.1007/s11224-020-01607-8

DOCUMENT TYPE: Article

SOURCE: Scopus

Ali, B., Stefani, H.A., Imran, M., Irfan, A., Assiri, M.A., Felinto, M.C.F.C., Khalid, M., Al-Sehemi, A.G.

Synthesis, Structure Study, First-Principles Investigations and Luminescence Properties of Europium and Terbium Complexes

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DOCUMENT TYPE: Article

SOURCE: Scopus

Ghazanfar, M., Azam, S., Nasir, M.F., Khan, S.A., Usama, H., Irfan, M., Muhammad, S., Al-Sehemi, A.G., Naqib, S.H., Khenata, R., Goumri-Said, S., Wang, X.T.

Exploring the potential use of Ca[LiAl<sub>3</sub>N<sub>4</sub>]:Eu<sup>2+</sup> as phosphor-LED material: Ab-initio calculations

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DOI: 10.1016/j.mtcomm.2020.101302

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Fouda, A.M., Hassan, A.H., Eliwa, E.M., Ahmed, H.E.A., Al-Dies, A.-A.M., Omar, A.M., Nassar, H.S., Halawa, A.H., Aljuhani, N., El-Agrody, A.M.

Targeted potent antimicrobial benzochromene-based analogues: Synthesis, computational studies, and inhibitory effect against 14 $\alpha$ -Demethylase and DNA Gyrase

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094609146&doi=10.1016%2fj.bioorg.2020.104387&partnerID=40&md5=bf2cb481af02bbe562fb519f6064b119>

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Abdel-wareth, A.A.A., Al-kahtani, M.A., Alsyad, K.M., Shalaby, F.M., Saadeldin, I.M., Alshammari, F.A., Mobashar, M., Suleiman, M.H.A., Ali, A.H.H., Taqi, M.O., El-sayed, H.G.M., Abd El-Sadek, M.S., Metwally, A.E., Ahmed, A.E.

Combined supplementation of nano-zinc oxide and thyme oil improves the nutrient digestibility and reproductive fertility in the male californian rabbits

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DOI: 10.3390/ani10122234

DOCUMENT TYPE: Article

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Tahir, F., Begum, R., Wu, W., Irfan, A., Farooqi, Z.H.

Physicochemical aspects of inorganic nanoparticles stabilized in N-vinyl caprolactam based microgels for various applications

(2020) RSC Advances, 11 (2), pp. 978-995.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099391206&doi=10.1039%2fd0ra09327k&partnerID=40&md5=929204fd462fc0879197e679903befca>

DOI: 10.1039/d0ra09327k

DOCUMENT TYPE: Review

SOURCE: Scopus

Irfan, A., Imran, M., Thomas, R., Mumtaz, M.W., Basra, M.A.R., Ullah, S., Al-Sehemi, A.G., Assiri, M.A.

Hole transport nature exploration of 4,4-Difluoro-8-(C<sub>4</sub>H<sub>3</sub>X)-4-bora-3a,4a-diaza-s-indacene (X = O, S, Se) (BODIPY) systems

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Farooqi, Z.H., Masaud, A., Begum, R., Irfan, A.

Physicochemical aspects of reduction of 3-Nitroaniline using methacrylamide based nano-hybrid catalyst  
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