

Publications of Chemistry department: 2019

Scopus

EXPORT DATE:03 Mar 2021

Abdel-Aziz, H.M., Gomha, S.M., El-Sayed, A.A., Mabkhot, Y.N., Alsayari, A., Muhsinah, A.B.

Facile synthesis and antiproliferative activity of new 3-cyanopyridines

(2019) BMC Chemistry, 13 (1), art. no. 137, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077455813&doi=10.1186%2fs13065-019-0652-1&partnerID=40&md5=94811cb97f4c1ca07e09ddca5f8dd629>

DOI: 10.1186/s13065-019-0652-1

DOCUMENT TYPE: Article

SOURCE: Scopus

Ahmad, F., Ullah, S., Merican, N.H.B.H., Oñate, E., Al-Sehemi, A.G., Yeoh, G.H.

An investigation on thermal performance of wollastonite and bentonite reinforced intumescent fire-retardant coating for steel structures

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071396836&doi=10.1016%2fj.conbuildmat.2019.116734&partnerID=40&md5=343079d73229525688bc0fb6b90056b5>

DOI: 10.1016/j.conbuildmat.2019.116734

DOCUMENT TYPE: Article

SOURCE: Scopus

Rex Rosario, S., Kulandaisamy, I., Deva Arun Kumar, K., Arulanantham, A.M.S., Valanarasu, S., Youssef, M.A., Awwad, N.S.

Deposition of p-type Al doped PbS thin films for heterostructure solar cell device using feasible nebulizer spray pyrolysis technique

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DOI: 10.1016/j.physb.2019.411704

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Abu-Melha, S.

Synthesis, Characterization and DFT Molecular Modeling of New Antibacterial Docked Dicarbohydrazones

(2019) ChemistrySelect, 4 (46), pp. 13533-13542.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076575150&doi=10.1002%2fslct.201903718&partnerID=40&md5=4769870068752dd777a6ac331611cf7a>

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DOCUMENT TYPE: Article

SOURCE: Scopus

Algarni, M.M., Awwad, N.S., Hamdy, M.S.

Carbonized Titania: An efficient material for the removal of heavy metal-dye complexes from water

(2019) Materials Research Express, 6 (12), art. no. 125615, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076368533&doi=10.1088%2f2053-1591%2fab5b4c&partnerID=40&md5=a1d94ce349a69bcc0fc88cd5023820de>

DOI: 10.1088/2053-1591/ab5b4c

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Shkir, M., Hamdy, M.S., AlFaify, S.

A facile one pot flash combustion synthesis of ZnO nanoparticles and their characterizations for photocatalytic applications

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DOI: 10.1016/j.molstruc.2019.07.084

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Guerrab, W., Chung, I.-M., Kansiz, S., Mague, J.T., Dege, N., Taoufik, J., Salghi, R., Ali, I.H., Khan, M.I., Lgaz, H., Ramli, Y.

Synthesis, structural and molecular characterization of 2,2-diphenyl-2H,3H,5H,6H,7H-imidazo[2,1-b][1,3]thiazin-3-one

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DOI: 10.1016/j.molstruc.2019.07.081

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SOURCE: Scopus

Marzouki, R., Ben Smida, Y., Avdeev, M., Alghamdi, M.M., Zid, M.F.

Synthesis, structure and Na⁺ migration pathways of new Wylleite-type Na_{1.25}Co_{2.187}Al_{1.125}(AsO₄)₃

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DOCUMENT TYPE: Article

SOURCE: Scopus

Irfan, A., Chaudhry, A.R., Al-Sehemi, A.G., Assiri, M.A., Ullah, S.

Exploration of optoelectronic and photosensitization properties of triphenylamine-based organic dye on TiO₂ surfaces

(2019) Journal of Computational Electronics, 18 (4), pp. 1119-1127.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069470287&doi=10.1007%2fs10825-019-01376-6&partnerID=40&md5=9036aaa0d9db5e6783cb2cac680daec0>

DOI: 10.1007/s10825-019-01376-6

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Essid, M., Aloui, Z.

Synthesis, Hirshfeld surface analysis and physicochemical studies of non-centrosymmetric semi-organic compound: [C₁₀H₁₅N₂](H₂PO₄)

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072794703&doi=10.1016%2fj.cdc.2019.100285&partnerID=40&md5=2a8e5e736c1d8d6b4456a677dd759554>

DOI: 10.1016/j.cdc.2019.100285

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SOURCE: Scopus

Zaky, R.R., Al-Ahmed, Z.A.

Potentiometric Determination of the Stability Constants of Nano-Silicon Complexes in Mixed Solvent at Different Temperatures

(2019) Silicon, 11 (6), pp. 2811-2818.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060123445&doi=10.1007%2fs12633-019-0075-6&partnerID=40&md5=9b5116fb9695609fb5f84f6d8963b19b>

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Elmorsy, A.H., Ghurzan, S., El-Toony, M., Al-Johani, E.

A comparative study on Co(II) removal capacity from water samples by sorption using limestone and nanolimestone

(2019) Journal of Water Reuse and Desalination, 9 (4), pp. 339-349.

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SOURCE: Scopus

Irfan, A., Chaudhry, A.R., Al-Sehemi, A.G., Assiri, M.A., Hussain, A.

Charge carrier and optoelectronic properties of phenylimidazo[1,5-a]pyridine-containing small molecules at molecular and solid-state bulk scales

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070089278&doi=10.1016%2fj.commat.2019.109179&partnerID=40&md5=4f8270ffa8ccd0ef0c6ed1c32cb02190>

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Yassien, K.M., El-Zahhar, A.A.

Investigation on the properties of gamma irradiated of polytetrafluoroethylene fibers

(2019) *Microscopy Research and Technique*, 82 (12), pp. 2054-2060.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073990143&doi=10.1002%2fjemt.23377&partnerID=40&md5=456f4408c02de25137fccda23840bc97>

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DOCUMENT TYPE: Article

SOURCE: Scopus

Shkir, M., Irfan, A., AlFaify, S., Shankaragouda Patil, P., Al-Sehemi, A.G.

Linear, second and third order nonlinear optical properties of novel noncentrosymmetric donor-acceptor configure chalcone derivatives: A dual approach study

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Shkir, M., Muhammad, S., AlFaify, S., Chaudhry, A.R., Al-Sehemi, A.G.

Shedding light on molecular structure, spectroscopic, nonlinear optical and dielectric properties of bis(thiourea) silver(I) nitrate single crystal: A dual approach

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SOURCE: Scopus

Fouda, A.M., Assiri, M.A., Mora, A., Ali, T.E., Afifi, T.H., El-Agrody, A.M.

Microwave synthesis of novel halogenated β -enaminonitriles linked 9-bromo-1H-benzo[f]chromene moieties: Induces cell cycle arrest and apoptosis in human cancer cells via dual inhibition of topoisomerase I and II

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Ramadan, A.M., Alshehri, A.A., Bondock, S.

Synthesis, physico-chemical studies and biological evaluation of new metal complexes with some pyrazolone derivatives

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DOI: 10.1016/j.jscs.2019.08.001

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Aldulmani, S.A.A., Alaghaz, A.-N.M.A.

Synthesis, spectroscopic characterization, quantum chemical calculations, evaluation of biological and cytotoxic activities, and molecular docking studies of 2-hydroxy-N'-(4,5,6-trimethoxy-2,3-dihydro-1H-inden-1-ylidene) benzohydrazide and its Cu(II), Co(II), Ni(II), and Zn(II) complexes

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Hasan, I., Khan, R.A., Alharbi, W., Alharbi, K.H., Alsalmeh, A.

In situ copolymerized polyacrylamide cellulose supported Fe₃O₄ magnetic nanocomposites for adsorptive removal of Pb(II): Artificial neural network modeling and experimental studies

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DOI: 10.3390/nano9121687

DOCUMENT TYPE: Article

SOURCE: Scopus

Ullah, S., Bustam, M.A., Assiri, M.A., Al-Sehemi, A.G., Abdul Kareem, F.A., Mukhtar, A., Ayoub, M., Gonfa, G.

Synthesis and characterization of iso-reticular metal-organic Framework-3 (IRMOF-3) for CO₂/CH₄ adsorption: Impact of post-synthetic aminomethyl propanol (AMP) functionalization

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DOI: 10.1016/j.jngse.2019.103014

DOCUMENT TYPE: Article

SOURCE: Scopus

Zaman, Q., Zia, K.M., Zuber, M., Mabkhot, Y.N., Almalki, F., Hadda, T.B.

A comprehensive review on synthesis, characterization, and applications of polydimethylsiloxane and copolymers

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Akram, S., Mumtaz, M.W., Danish, M., Mukhtar, H., Irfan, A., Raza, S.A., Wang, Z., Arshad, M.

Impact of cerium oxide and cerium composite oxide as nano additives on the gaseous exhaust emission profile of waste cooking oil based biodiesel at full engine load conditions

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Brahmia, A., Marzouki, R., Rohlicek, J., Irfan, A., Al-Sehemi, A.G., Hassen, R.B.

Structural, spectroscopic and first-principles studies of new aminocoumarin derivatives

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DOI: 10.1107/S2053229619012993

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Abdel-Kader, M.S., Soliman, G.A., Abdel-Rahman, R.F., Saeedan, A.S., Abd-Elsalam, R.M., Ogaly, H.A.
Effect of olive leaves extract on the antidiabetic effect of glyburide for possible herb-drug interaction
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Irfan, M., Azam, S., Hussain, S., Khan, S.A., Makhdoom, M., Gul, B., Khan, S., Kityk, I.V., Muhammad, S., Siddeeg, S.M.

DFT simulations of optoelectronic and elastic features of cubic samarium zirconate (Sm₂Zr₂O₇)
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Irfan, A., Mahmood, A., Al-Sehemi, A.G., Ahmad, F.

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(2019) Journal of Molecular Structure, 1196, pp. 169-175.

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Al-Shehri, B.M., Khder, A.E.R.S., Ashour, S.S., Hamdy, M.S.

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Al-Soliemy, A., Al-Zahrani, F.

Synthesis of novel disperse dyes based on curcumin for the creation of antibacterial polyester fabrics

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Ali, T.E., Assiri, M.A., El-Shaar, H.M., Hassan, M.M., Fouda, A.M., Hassanin, N.M.

Reaction of 2-imino-2H-chromene-3-carboxamide with some phosphorus esters: Synthesis of some novel chromenes containing phosphorus heterocycles and phosphonate groups and their antioxidant and cytotoxicity properties

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Babeela, C., Narendran, N.K.S., Pannipara, M., Al-Sehemi, A.G., Sabari Girisun, T.C.

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Siddeeg, S.M., Tagoon, M.A., Rebah, F.B.

Simultaneous removal of calconcarboxylic acid, NH_4^+ and PO_4^{3-} from pharmaceutical effluent using iron oxide-biochar nanocomposite loaded with *Pseudomonas putida*

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Wazzan, N., Irfan, A.

Exploring the optoelectronic and charge transport properties of Pechmann dyes as efficient OLED materials

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Abdou, M.M., El-Saeed, R.A., Bondock, S.

Recent advances in 4-hydroxycoumarin chemistry. Part 2: Scaffolds for heterocycle molecular diversity

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Karthikeyan, C., Raj kumar, T., Pannipara, M., Al-Sehemi, A.G., Senthilkumar, N., Angelaalincy, M.J., Varalakshmi, P., Phang, S.-M., Periasamy, V., Gnana kumar, G.

Ruthenium oxide/tungsten oxide composite nanofibers as anode catalysts for the green energy generation of *Chlorella vulgaris* mediated biophotovoltaic cells

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Ullah, S., Bustam, M.A., Assiri, M.A., Al-Sehemi, A.G., Sagir, M., Abdul Kareem, F.A., Elkhalfah, A.E.I., Mukhtar, A., Gonfa, G.

Synthesis, and characterization of metal-organic frameworks -177 for static and dynamic adsorption behavior of CO₂ and CH₄

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Praveena Devi, C.H.B., Vijay, K., Hari Babu, B., Adil, S.F., Mujahid Alam, M., Vijjulatha, M., Ansari, M.B.

CuSO₄/sodium ascorbate catalysed synthesis of benzosuberone and 1,2,3-triazole conjugates: Design, synthesis and in vitro anti-proliferative activity

(2019) Journal of Saudi Chemical Society, 23 (7), pp. 980-991.

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DOI: 10.1016/j.jscs.2019.05.002

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Rehman, W.U., Merican, Z.M.A., Bhat, A.H., Hoe, B.G., Sulaimon, A.A., Akbarzadeh, O., Khan, M.S., Mukhtar, A., Saqib, S., Hameed, A., Mellon, N., Ullah, H., Ullah, S., Assiri, M.A.

Synthesis, characterization, stability and thermal conductivity of multi-walled carbon nanotubes (MWCNTs) and eco-friendly jatropha seed oil based nanofluid: An experimental investigation and modeling approach

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Ibrahim, E.H., Kilany, M., Mostafa, O.M.S., Shaker, K.H., Alshehri, M., Alsyad, K.M., Alshehri, A., Khan, K.A., Qasim, M., Kotb, N., Alahmari, A.S., Ghramh, H.A., Dajem, S.M.

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