

# European Journal of Chemistry

An International Open Access Journal

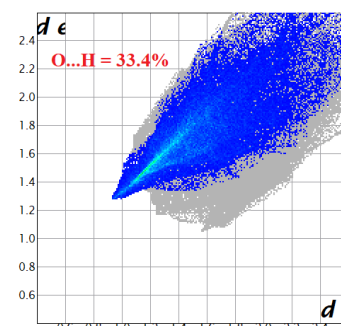
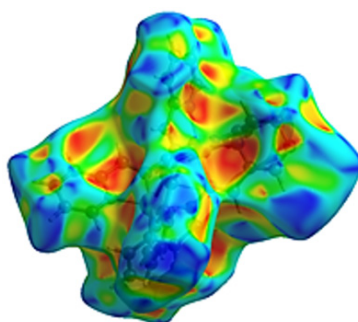
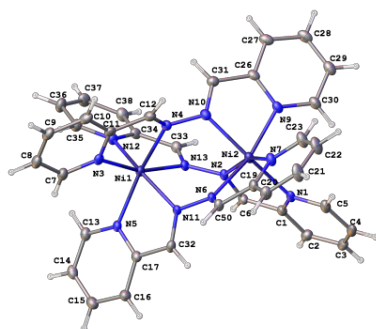
## Graphical Contents

Volume 13, Issue 1, 31 March 2022

European Journal of Chemistry 13 (1) (2022) 1-7

### Synthesis, characterization, X-ray crystal structure and Hirshfeld surface analysis of Ni(II) complex of 1,2-bis(pyridin-2-ylmethylene)hydrazine

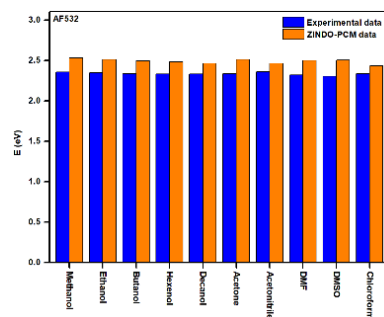
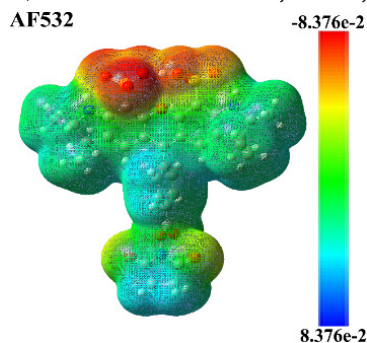
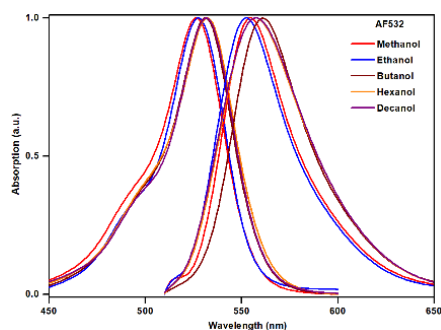
Meman Sahu, Amit Kumar Manna, Dinesh De and Goutam Kumar Patra



European Journal of Chemistry 13 (1) (2022) 8-19

### Solvatochromism and ZINDO-IEFPCM solvation study on NHS ester activated AF514 and AF532 dyes: Evaluation of the dipole moments

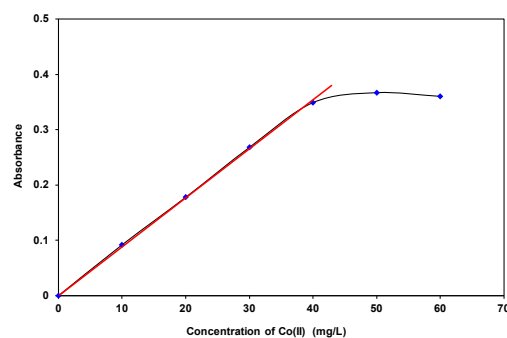
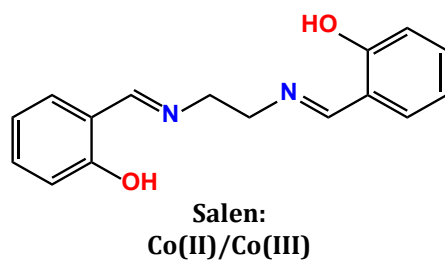
Mallikarjun Kalagouda Patil, Mare Goudar Kotresh, Tarimakki Shankar Tilakraj and Sanjeev Ramchandra Inamdar



European Journal of Chemistry 13 (1) (2022) 20-32

### Development of a new highly sensitive and selective spectrophotometric method for the determination of cobalt at nanotrace levels in various complex matrices using *N,N'*-bis(salicylidene)-ethylenediamine

Muhammad Jamaluddin Ahmed and Tahmina Happy



European Journal of Chemistry

ISSN 2153-2249 (Print) / ISSN 2153-2257 (Online) – Copyright © 2022 Atlanta Publishing House LLC – Printed in the USA.

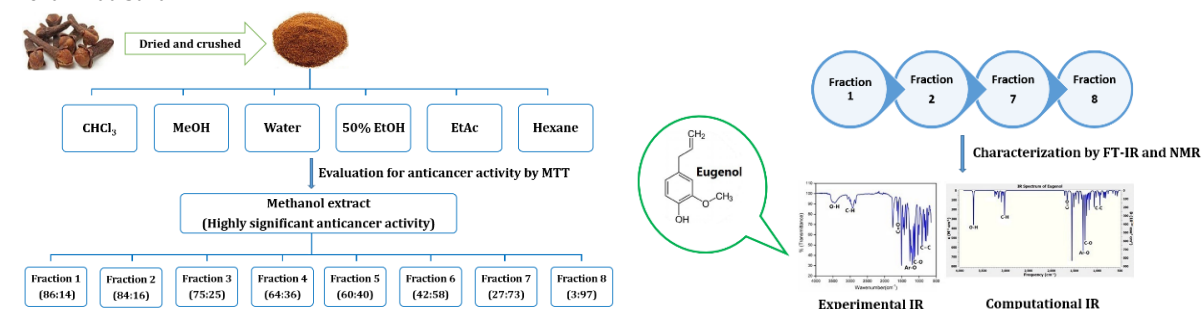
This work is published and licensed by Atlanta Publishing House LLC – CC BY NC – Some Rights Reserved.

<https://dx.doi.org/10.5155/eurjchem.13.1.iii-vi.2233>

European Journal of Chemistry 13 (1) (2022) 33-40

### In vitro anticancer, antioxidant and DNA-binding study of the bioactive ingredient of clove and its isolation

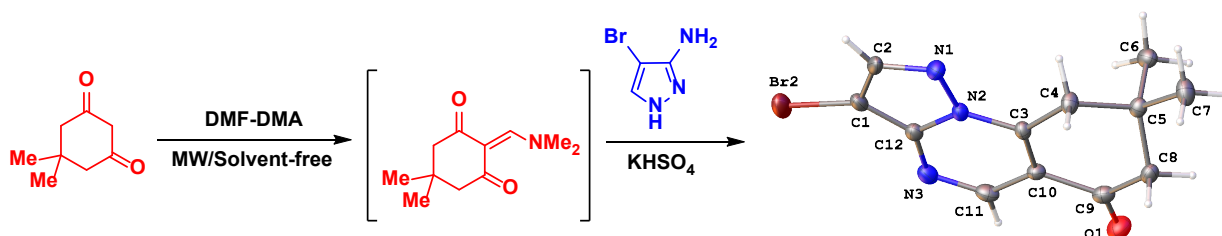
Mohammad Suhail



European Journal of Chemistry 13 (1) (2022) 41-48

### Efficient, environment friendly and regioselective synthetic strategy for 2/3-substituted-8,8-dimethyl-8,9-dihydropyrazolo[1,5-a]quinazolin-6(7H)-ones and their structure elucidation

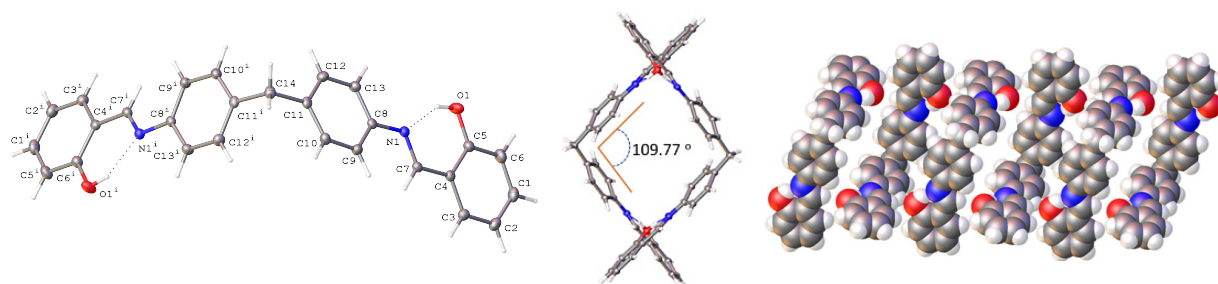
Susma Das, Labet Bankynmaw Marpna and Jai Narain Vishwakarma



European Journal of Chemistry 13 (1) (2022) 49-55

### Synthesis, crystal structure, DFT studies, and Hirshfeld surface analysis of 2,2'-(((methylene-bis(4,1-phenylene))bis(azanilylidene))bis(methanylylidene))diphenol

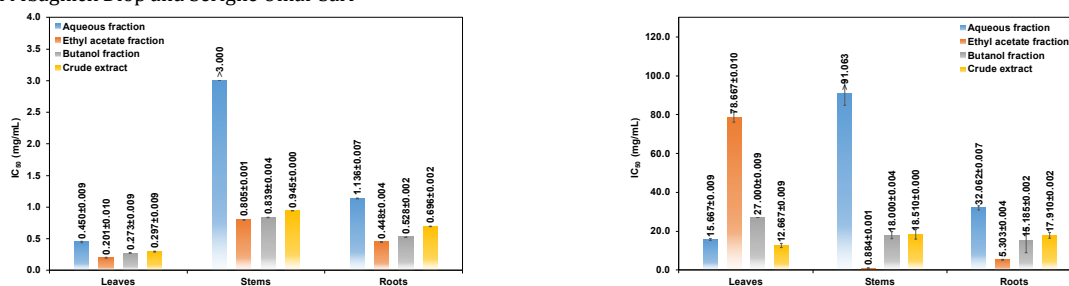
Goutam Kumar Patra and Dinesh De



European Journal of Chemistry 13 (1) (2022) 56-62

### Study of the antioxidant potential, polyphenol content, and mineral composition of Cordyla pinnata, a plant for food and medicinal use of the Senegalese pharmacopoeia

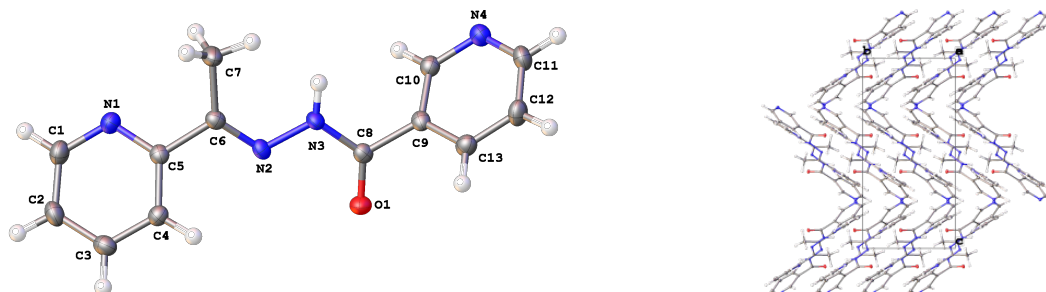
Pape Issakha Dieye, Thierno Mouhamed Wane, Elhadji Ousmane Faye, Rokhaya Gueye, Amadou Diop, Bara Ndiaye, Yerim Mbangnick Diop and Serigne Omar Sarr



European Journal of Chemistry 13 (1) (2022) 63-68

### Bivalent metal complexes of a novel modified nicotinic acid hydrazone drug: Synthesis, characterization, and anti-tubercular studies

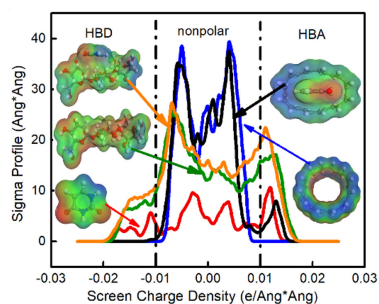
Cyprian Chunkang Mikwa, Gwendoline Mochia Toh-Boyo, Romanus Nyako Njong, Bridget Ndosiri Ndoye, Christophe Adrien Ndamyabera, Natsuki Katsuomi, Yuta Mitani, Emmanuel Ngwang Nfor and Takashiro Akitsu



European Journal of Chemistry 13 (1) (2022) 69-77

### Theoretical study of a single-walled carbon nanotube and a cellulose biofiber as 5-fluorouracil anti-cancer drug carriers

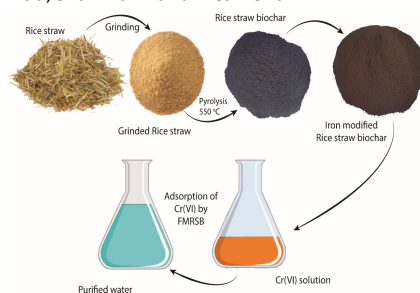
Eshraq Ahmed Abdullah



European Journal of Chemistry 13 (1) (2022) 78-90

### Kinetic studies and adsorptive removal of chromium Cr(VI) from contaminated water using green adsorbent prepared from agricultural waste, rice straw

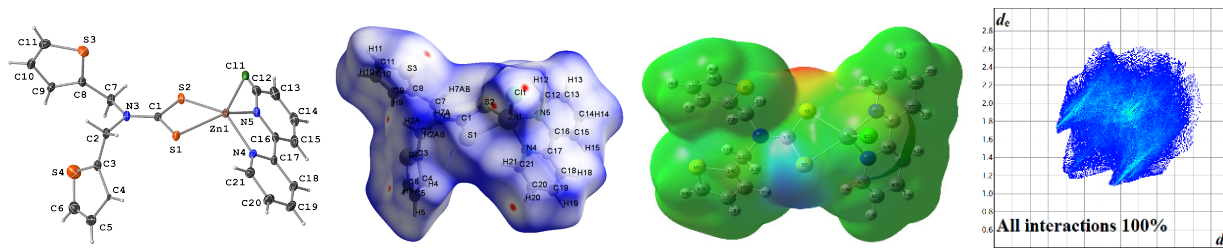
Izaz Ul Islam, Mushtaq Ahmad, Maqbool Ahmad, Shah Rukh and Ihsan Ullah



European Journal of Chemistry 13 (1) (2022) 91-98

### Synthesis, crystal structure, Hirshfeld surface analysis, and DFT studies on (2,2'-bipyridine)chlorobis(*N,N*-bis(thiophen-2-ylmethyl)dithiocarbamate-*S,S'*)zinc(II) complex

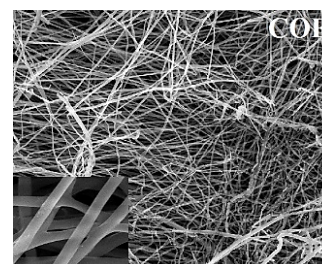
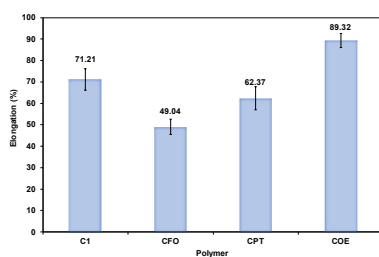
Sundararajan Eswari and Subbiah Thirumaran



European Journal of Chemistry 13 (1) (2022) 99-108

### Characterization of PLA nanofiber structures containing herbal extracts

Nilsen Sunter Eroglu and Suat Canoglu

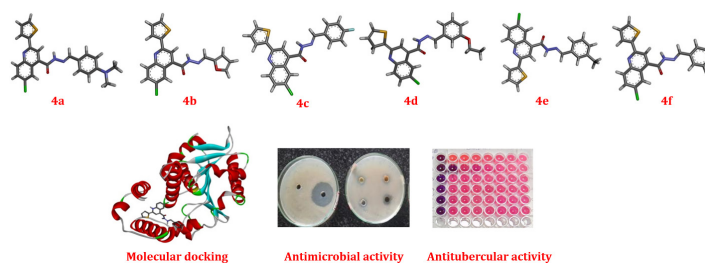


European Journal of Chemistry 13 (1) (2022) 109-116

### Synthesis, antimicrobial, and antitubercular evaluation of new Schiff bases with *in silico* ADMET and molecular docking studies

Sakshith Raghavendra Prasad, Nayak Devappa Satyanarayan, Avarse Satish Kumar Shetty and Basaiah Thippeswamy

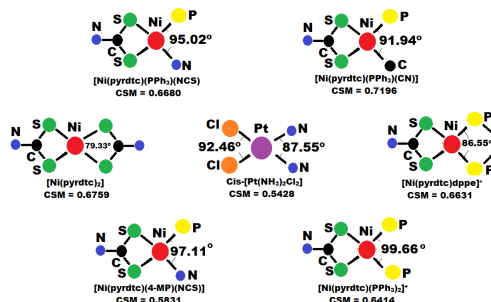
#### New Schiff bases of 2-(thiophen-2-yl)quinoline-4-carbohydrazone



European Journal of Chemistry 13 (1) (2022) 117-125

### Pyrrolidinecarbothioate as a planarity chock in the search for cis-platin analogues of nickel: Spectral, single crystal X-ray structural, BVS, and CSM analysis of some planar nickel(II) mixed ligand complexes

Kuppukkannu Ramalingam, Murugesan Saravanan, Gabriele Bocelli, Lara Righi, Yuri Chumakov and Andrea Cantoni



European Journal of Chemistry 13 (1) (2022) 126-134

### Mononuclear pyrazine-2-carbohydrazone metal complexes: Synthesis, structural assessment, thermal, biological, and electrical conductivity studies

Ashish Bansod, Ravindra Bhaskar, Chandarshekar Ladole, Nilesh Salunkhe, Kanchan Thakare and Anand Aswar

