

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

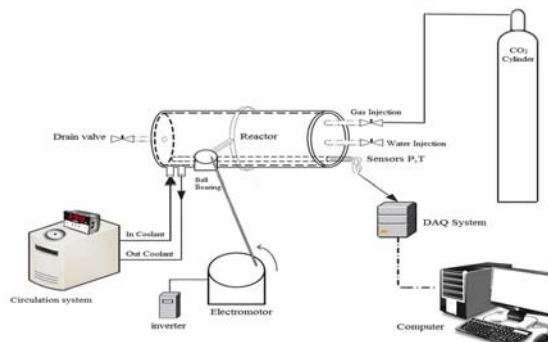
Tome 65, N° 12

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PAPERS

**Alireza BOZORGIAN, Zahra Arab
ABOOSADI, Abolfazl MOHAMMADI,
Bizhan HONARVAR and Alireza AZIMI**

Determination of CO₂ gas hydrates surface tension in the presence of nonionic surfactants and TBAC

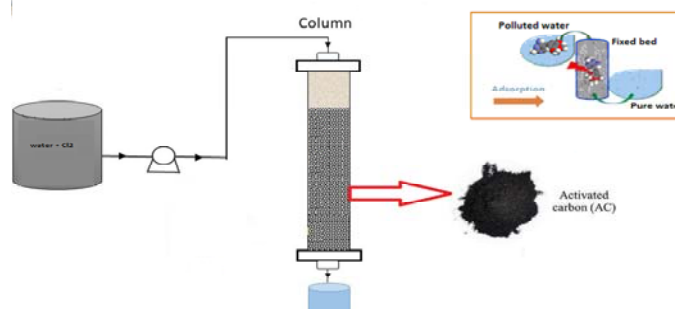


DOI: 10.33224/rch.2020.65.12.01
Rev. Roum. Chim., 2020, 65(12), 1061-1065

Key words: gas hydrates, surface tension, surfactants, promoter, TBAC, APG.

**Bahman BEHZADI, Maziar NOEI,
Alireza AZIMI, Masoumeh MIRZAEI and
Hossein ANARAKI-ARDAKANI**

Experimental evaluation of free chlorine adsorption from circulating water in cooling towers by activated carbon in a fixed bed column

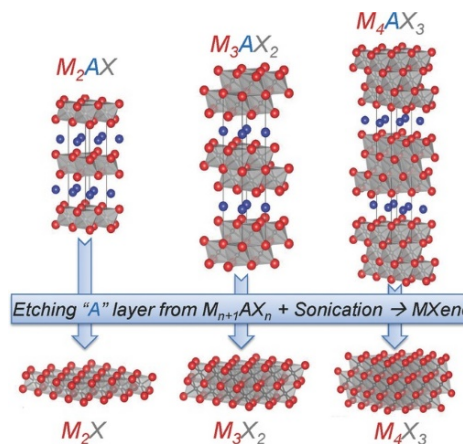


DOI: 10.33224/rch.2020.65.12.02
Rev. Roum. Chim., 2020, 65(12), 1067-1077

Key words: adsorption, free chlorine, activated carbon, cooling tower.

**Chunmei KAI, Fengjun ZHANG,
Cui KONG and Weiqin CAI**

Progress in photocatalysis of new two-dimensional layered materials MXenes

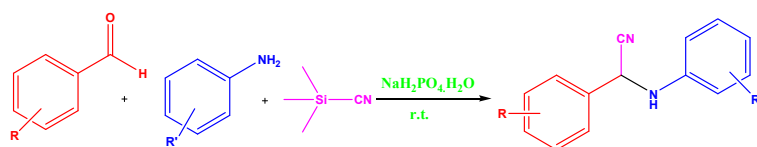


DOI: 10.33224/rch.2020.65.12.03
Rev. Roum. Chim., 2020, 65(12), 1079-1091

Key words: MXenes, co-catalyst, photocatalyst, photocatalytic reactions.

**Zahed KARIMI-JABERI and
Abdolaziz BAHRANI**

One-pot three-component synthesis of α -aminonitriles using sodium dihydrogen phosphate as a catalyst at room temperature

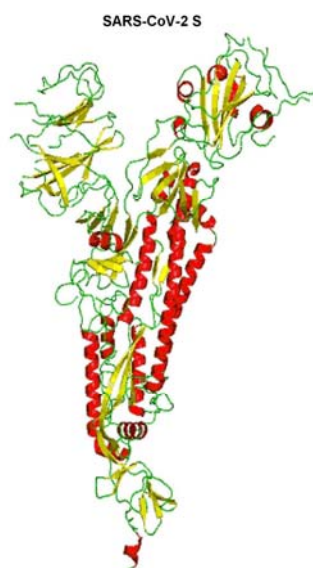


DOI: 10.33224/rch.2020.65.12.04
Rev. Roum. Chim., **2020**, 65(12), 1093-1097

Key words: α -aminonitriles, sodium dihydrogen phosphate, eco-friendly conditions.

Petar M. MITRASINOVIC

Predicted single point mutations in ganglioside-binding domain of SARS-CoV-2 S and recognition by 9-O-acetylated sialic acid and hydroxychloroquine

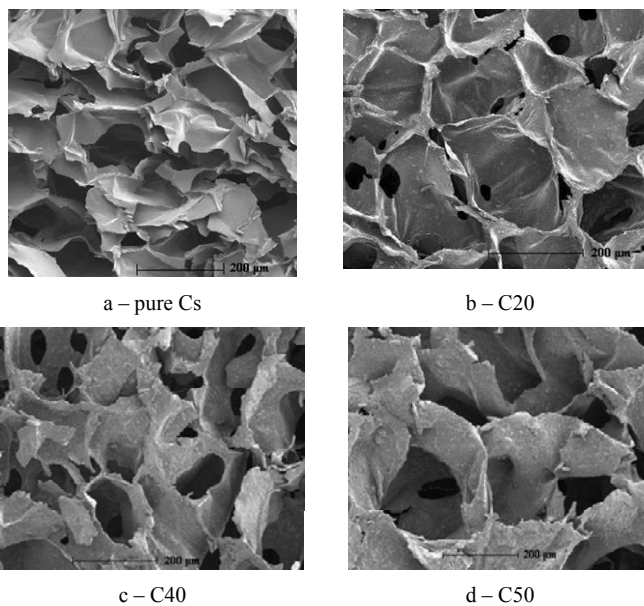


DOI: 10.33224/rch.2020.65.12.05
Rev. Roum. Chim., **2020**, 65(12), 1099-1109

Key words: CoViD-19, hydroxychloroquine, mutation, pandemic, SARS-CoV-2.

Ioana A. DUCEAC and Fulga TANASA

Novel chitosan-hydroxyapatite macroporous composites for biomedical applications

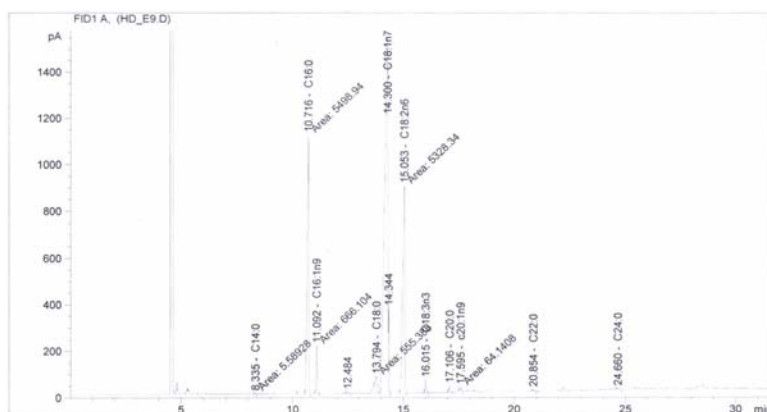


DOI: 10.33224/rch.2020.65.12.06
Rev. Roum. Chim., **2020**, 65(12), 1111-1119

Key words: chitosan, hydroxyapatite, composites for biomedical applications, mechanical properties.

**Kaouthar KALLEL, Ghayth RIGANE,
Hanene GHAZGHAZI and Ridha BEN SALEM**

Fatty acids profile (GC-FID) and analytical evaluation of *Chemlali* olive oil according to a combined laboratory scale ultrasounds and microwave extraction

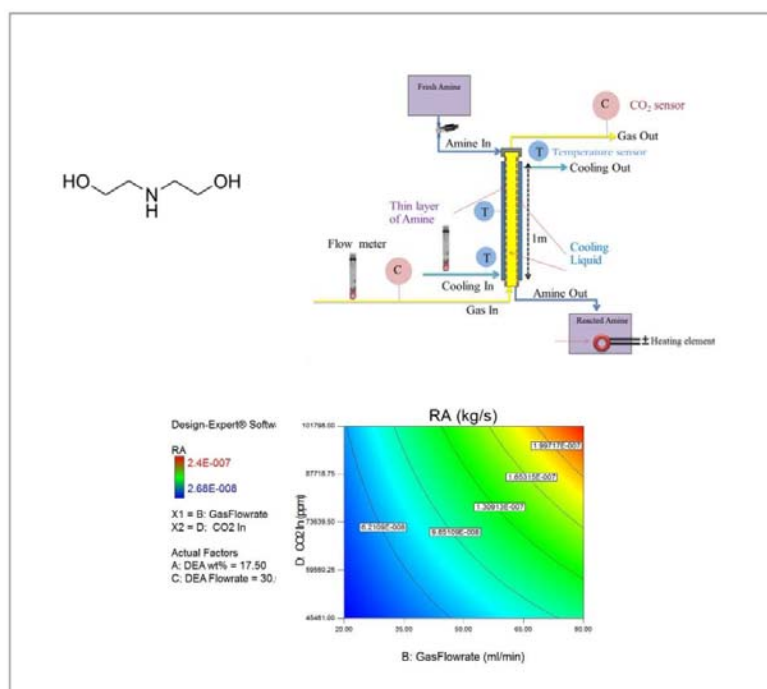


DOI: 10.33224/rch.2020.65.12.07
Rev. Roum. Chim., 2020, 65(12), 1121-1131

Key words: *Chemlali*, fatty acid composition, microwave, phenolic compounds, ultrasound.

**Nasser MALEKI, Sorosh ZARINABADI,
Alireza AZIMI,
Amirhossein Shahbazi KOOTENAEI**

Response surface historical method, simulation of CO₂ absorption process by DEA in FFR using COMSOL multiphysics

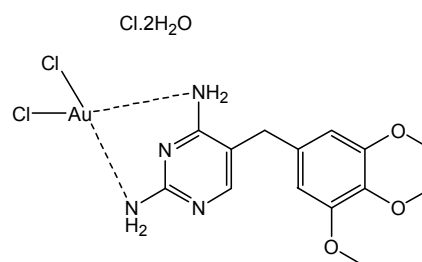
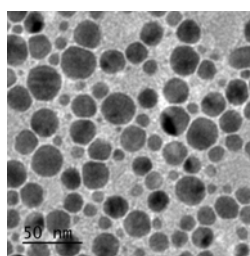


DOI: 10.33224/rch.2020.65.12.08
Rev. Roum. Chim., 2020, 65(12), 1133-1143

Key words: carbon dioxide, absorption, Reynold's number, falling film reactor, diethanolamine.

Lamia A. ALBEDAIR

Iron(III), gold(III), platinum(IV) and palladium(II) trimethoprim drug complexes: synthesis, spectroscopic, morphological and anticancer assessments

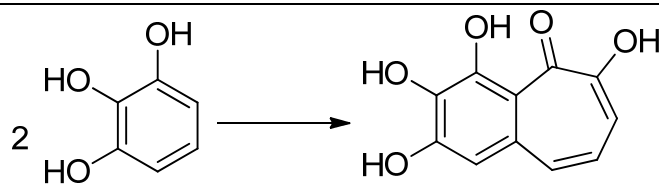


DOI: 10.33224/rch.2020.65.12.09
Rev. Roum. Chim., 2020, 65(12), 1145-1152

Key words: trimethoprim, complexes, FTIR, gold(III) ion, anti-cancer.

Salima DIB, Didier VILLEMIN,
Bachir MOSTEFA-KARA, Amel HAMHAMI,
Nathalie BAR, Mebrouka DEKHICI and
Nawel CHEIKH

On the green catalytic synthesis of purpurogallin



DOI: 10.33224/rch.2020.65.12.10
Rev. Roum. Chim., 2020, 65(12), 1153-1157

Key words: pyrogallol, purpurogallin, tetramethylethylene diamine copper complex, peroxidase, bitter turnips.

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Rev. Roum. Chim., 2020, 65(12), 1159-1168

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