

REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

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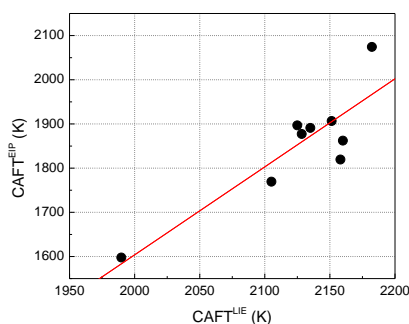
Dr. Nicolae I. IONESCU at his 90th anniversary

Rev. Roum. Chim., 2023, 68(7–8), 301–319

PAPERS

**Domnina RAZUS, Maria MITU,
Codina MOVILEANU
and Venera GIURCAN**

Calculated adiabatic flame temperature – a tool for ascertaining the minimum inert concentration of fuel-nitrous oxide-inert gaseous mixtures

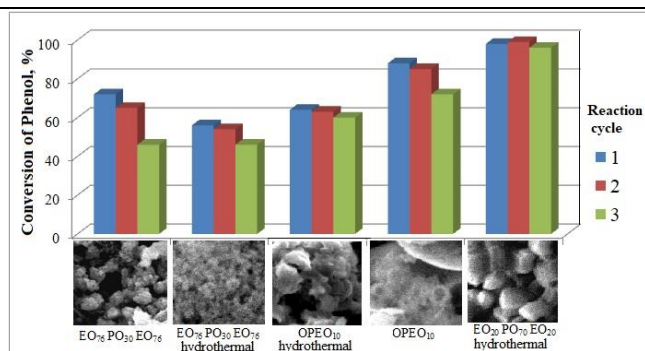


DOI: 10.33224/rrech.2023.68.7-8.01
Rev. Roum. Chim., 2023, 68(7–8), 321–326

Key words: fuel, nitrous oxide, inert gas, flammability limit, adiabatic flame temperature.

**Marieta BALCAN, Dan F. ANGHEL,
Daniela NEGOESCU, Veronica BRATAN
and Viorica PARVULESCU**

Nonionic surfactant-templated mesoporous silica as supports for nickel active catalysts in liquid phase organic compounds oxidation

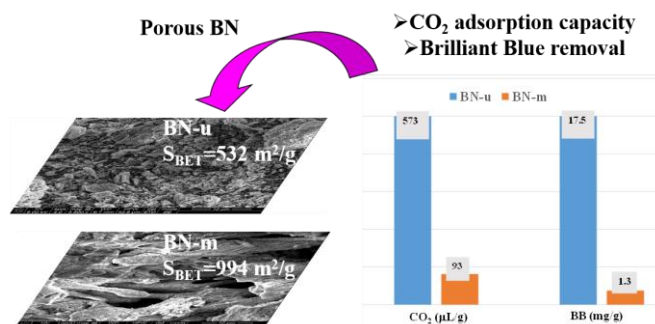


DOI: 10.33224/rrech.2023.68.7-8.02
Rev. Roum. Chim., 2023, 68(7–8), 327–337

Key words: Triton X-100, Pluronic F68, P123, mesoporous silica, Ni/Ti-SiO₂, catalytic oxidation, photocatalytic degradation.

**Anca VASILE, Florica PAPA,
Daniela C. CULITA, Oana Catalina
MOCIOIU, Simona PETRESCU, Paul
CHESLER, Cristian HORNOIU and
Veronica BRATAN**

Adsorption properties of boron nitride: A promising material for depollution applications

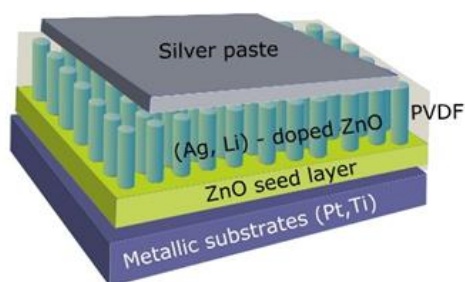


DOI: 10.33224/rrech.2023.68.7-8.03
Rev. Roum. Chim., 2023, 68(7–8), 339–345

Key words: boron nitride, CO₂ adsorption, dye adsorption.

Mariana CHELU, Mihai ANASTASESCU, Jose CALDERON MORENO, Daiana MITREA, Hermine STROESCU, Marin GHEORGHE and Mariuca GARTNER

Morphological properties of ZnO nanostructures doped with Ag and Li for piezoelectric applications

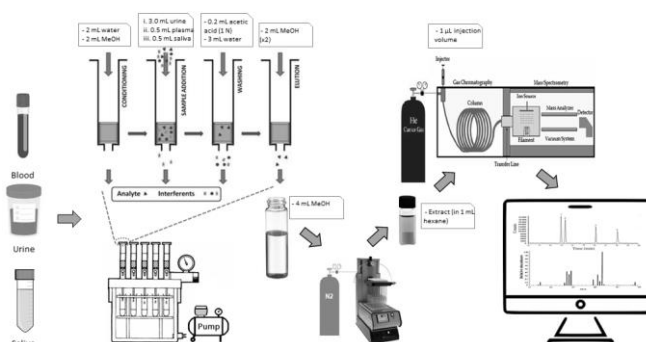


DOI: 10.33224/rrech.2023.68.7-8.04
Rev. Roum. Chim., 2023, 68(7–8), 347–355

Key words: ZnO nanostructures, doping, hydrothermal method, PVDF, piezoelectric properties.

Emrah DURAL, Hatice Taslak KOZLUCA, Betül İşiner KAYA, Görkem MERGEN, and Tülin SÖYLEMEZOĞLU

Investigation of the relationship between nicotine and cotinine concentrations in human biological samples by a GC-MS method

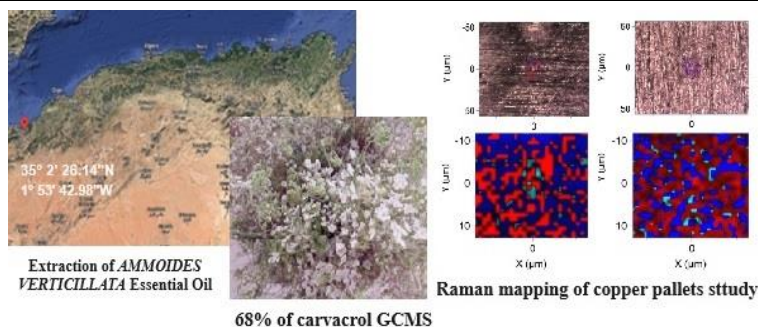


DOI: 10.33224/rrech.2023.68.7-8.05
Rev. Roum. Chim., 2023, 68(7–8), 357–369

Key words: nicotine, cotinine, gas chromatography-mass spectrometry, solid-phase extraction, biological samples.

Naziha CHABANE, Fayçal DERGAL, Tarik ATTAR, Nadia BELARBI, Ilyas CHIKHI, Samir CHERIGUI, Mohamed Abou MUSTAPHA, Djahida LERARI and Khaldoun BACHARI

Green inhibition of copper corrosion by *ammoides verticillata* oil in 1M nitric acid: weight loss and Raman spectroscopic mapping studies

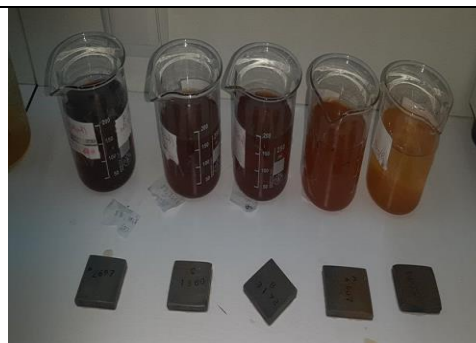


DOI: 10.33224/rrech.2023.68.7-8.06
Rev. Roum. Chim., 2023, 68(7–8), 371–381

Key words: green inhibitor, copper, *ammoides verticillata*, carvacrol, essential oil, Raman spectroscopy.

Nour El Houda SOBHI, Amel BOUKHOUIETE, Malika FOUZIA and Sofiane BENDIR

Study on the performance of green corrosion inhibitor in protection of API5LX60 in seawater environment

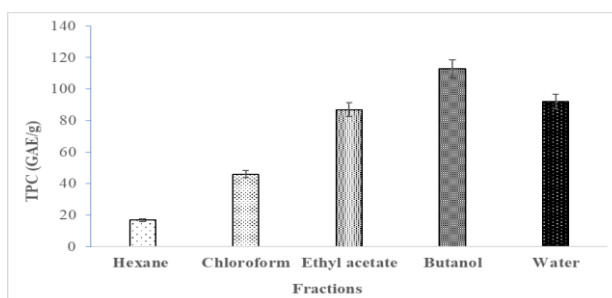


DOI: 10.33224/rrech.2023.68.7-8.07
Rev. Roum. Chim., 2023, 68(7–8), 383–389

Key words: corrosion inhibitor, API5LX60 pipeline steel, ascorbic acid, seawater.

**Umer YOUNAS, Shahid IQBAL,
Asif SALEEM, Roeya RAHMAN,
Arif NAZIR, Faiza HASSAN, Arfaa SAJUD,
Zohaib SAEED, Munawar IQBAL
and Naveed AHMAD**

Evaluation of biological activity and pharmacological attributes of *Pariploca aphylla*: potential source of functional food and nutraceuticals

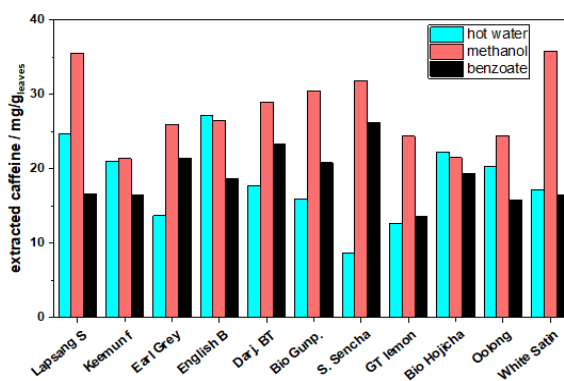


DOI: 10.33224/rrch.2023.68.7-8.08
Rev. Roum. Chim., 2023, 68(7-8), 391-400

Key words: phytochemicals, pharmacological attributes, nutraceutical agent, antiradical potential, functional food.

Bettina SZEREDAI, Róbert TÓTÓŠ, Árpád-Ferenc SZŐKE and Norbert MUNTEAN

Comparative analysis of the caffeine content of tea determined with HPLC-MS/MS using different extraction methods



DOI: 10.33224/rrch.2023.63.7-8.09
Rev. Roum. Chim., 2023, 68(7-8), 401-407

Key words: tea, caffeine, HPLC-MS/MS, extraction methods, pentoxifylline.

