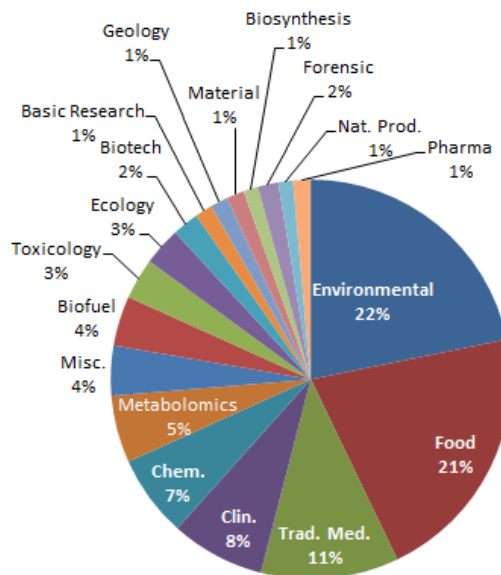


Přehled aplikací GC-MS

| Typ MS | Časové období | Celkem | Aplikace | Publikace | Ostatní |
|---------------|-----------------------------------------|------------|------------|------------|-----------|
| Celkem | | 671 | 118 | 513 | 40 |
| QTOF | 2011-2013 | 33 | 5 | 13 | 15 |
| TQ | 2008-2013 | 172 | 37 | 128 | 7 |
| MSD | Aplikace: 2005-14 Publikace: 2013/14 | 466 | 76 | 372 | 18 |

* Zdroj: Google Scholar, e-Library

GC-MS (Q) 5975, 5977 Typy aplikací



GC-MS (Q) 5975, 5977 aplikace pro chemii a základní výzkum

Chemie

- Py-SPME-GC-MS with on-fiber derivatization as a new solvent-less technique for the study of polar macromolecules: Application to natural gums
- Pyrolyzer-GC/MS system-based analysis of the effects of zeolite catalysts on the fast pyrolysis of Jatropha husk
- Thermal degradation of various lignins by TG-MS/FTIR and Py-GC-MS
- Kinetic Modeling of Esterification Reaction of Surfactin-C15 in Methanol Solution
- Monitoring changes in the chemical composition of dissolvable tobacco products

- **Analysis of isopropyl para-toluenesulphonate in palm-based esters by gas chromatography with flame ionization detection and confirmed with mass spectrometry**
- **Rate Constants for the Gas-Phase Reactions of Ozone and Nitrate Radicals with the Sesquiterpenes: Valencene and Farnesol**
- **A novel approach for selective cross aldol condensation using reusable NaOH-cationic micellar systems**
- **Copper and Iron-assisted Palladium-catalyzed Direct Arylation of Azoles with Arylboronic Acids under Ligand and Base-free Conditions**
- **Fabrication of nano-crystalline cellulose with phosphoric acid and its full application in a modified polyurethane foam**
- **Multivariate evaluation and optimization of an activated-magnesium/co-solvent system for the reductive degradation of polycyclic aromatic hydrocarbons**
- **Evaluation of decomposition products of EMImCl-1.5AlCl₃ during aluminium electrodeposition with different analytical methods**
- **Enhanced Biotransformation of Dinitrotoluene by Mediator-Functionalized Polypyrrole Composites**
- **Thermal stability characterization of n-alkanes from determination of produced aromatics**
- **Analysis of plasticizers and synthetic musks in cosmetic and personal care products by matrix solid-phase dispersion gas chromatography-mass spectrometry ☆**
- **Simple and Efficient Procedure for Synthesis of N'-Arylamidines Using Trimethylaluminum**
- **Rapid quantification of dimethyl methylphosphonate from activated carbon particles by static headspace gas chromatography mass spectrometry**
- **Extraction and characterization of seed oil waxes by using chromatographic techniques**
- **Synthesis of the novel (±)-2-methoxy-6-icosynoic acid—A fatty acid that induces death of neuroblastoma cells**
- **Covalent Triazine Frameworks Prepared from 1,3,5-Tricyanobenzene**
- **The hydrogenation/dehydrogenation activity of supported Ni catalysts and their effect on hexitols selectivity in hydrolytic hydrogenation of cellulose**
- **Beckmann rearrangement of acetophenone oximes to the corresponding amides organo-catalyzed by trifluoroacetic acid for sustainable NSAIDs synthesis**
- **Bisphenol A treatment by the hot persulfate process: Oxidation products and acute toxicity**
- **Microwave-assisted Knoevenagel condensation in aqueous over triazine-based microporous network**
- **Advanced oxidation of a commercially important nonionic surfactant: Investigation of degradation products and toxicity**
- **A functionalized basic ionic liquid for synthesis of dimethyl carbonate from methanol and CO₂**
- **Novel trialkylsilyl(germyl)-substituted thienyl- and furylbenzimidazoles and their N-substituted derivatives – synthesis, structure and cytotoxic activity**

- **Structure elucidation of capsular polysaccharides from *Streptococcus pneumoniae* serotype 33C, 33D, and revised structure of serotype 33B**
- **Facile microwave-assisted synthesis of monodispersed ball-like Ag@AgBr photocatalyst with high activity and durability**
- **Novel Oxovanadium(IV) Complexes with 4-Acyl Pyrazolone Ligands: Synthesis, Crystal Structure and Catalytic Activity Towards the Oxidation of Benzylic Alcohols**
- **Reducing Benzo(a)pyrene Content of Coal-Tar-Pitch Modified by Styrene-Butadiene Rubber through Dynamic Vulcanization**
- **A hierarchical Fe₃O₄@P4VP@MoO₂(acac)₂ nanocomposite: Controlled synthesis and green catalytic application**
- **Development of GC-MS methods for the identification and quantification of leachables from plastic packaging in dialysis solutions**

Materiálová chemie

- **Dimethyl Sulfoxide Separating Waste Printed Circuit Boards by Dissolving Polymer Materials**
- **Preparation and cupric ion release behavior of Cu/LDPE porous composites with tunable pore morphology for intrauterine devices**
- **N-methylacetamide as an Electrolyte Solvent for Rechargeable Li-O₂ Batteries: Unexpected Stability at the O₂ electrode**
- **Chemical degradation of TGDDM/DDS epoxy resin in supercritical 1-propanol: Promotion effect of hydrogenation on thermolysis**
- **Mesoporous Vanadium Ion Doped Titania Nanocatalysts for the Photocatalytic Degradation of Sulfur Mustard**
- **Encapsulation of aliphatic amines into nanoparticles for self-healing corrosion protection of steel sheets**

Základní výzkum

- **What Can Be Improved in GC-MS—When Multi Benefits Can Be Transformed into a GC-MS Revolution**
- **Probing the chiral separation mechanism and the absolute configuration of malathion, malaoxon and isomalathion enantiomers by chiral high performance liquid chromatography coupled with chiral detector–binding energy computations**
- **On the use of quadrupole mass spectrometric detection for flow modulated comprehensive two-dimensional gas chromatography**
- **High concentration capacity sample preparation techniques to improve the informative potential of two-dimensional comprehensive gas chromatography–mass spectrometry: Application to sensomics**
- **Experimental design for the optimization of the derivatization reaction in determining chlorophenols and chloroanisoles by headspace-solid-phase microextraction–gas chromatography/mass spectrometry**

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- **On the use of ionic liquid capillary columns for analysis of aromatic hydrocarbons in low-boiling petrochemical products by one-dimensional and comprehensive two-dimensional gas chromatography**