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Analytical chemistry

Instrumental analysis

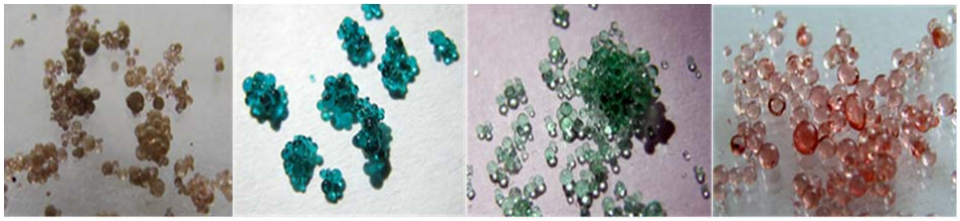
Separation methods

Research themes:

- **Separation and concentration methods:** Ion metal sorption onto natural and synthetic materials;
- **Environmental contaminants analysis:** quantification of compounds with toxic potential from complex matrices.

• Characterization using new techniques, interpretation according to modern theories of sorption processes on synthetic sorbents;
• Identifying new applications of metal ion loaded sorbents as potential catalysts for the oxidative degradation or as additional sorbents for different classes of compounds which are pollutants in the aquatic environment;
• Identifying of biomaterials that act as sorbents; characterization processes that may be involved and identification of practical applications;
• Monitoring of environmental pollutants (organic or inorganic) by using biological samples.

Keywords: sorption process, metal ion analysis, complex matrices.



Publications (selection)

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Bârsănescu, A., **Buhăceanu, R**., Dulman, V. Removal of Basic Blue 3 by sorption onto weak acid acrylic resin. *J. Appl. Polym. Sci.*, **113**, 607-614, **2009**.

Buhăceanu, R., Sârghie, I., Bârsănescu, A., Dulman, V., Bunia, I., Silver (I) sorption on acrylic copolymers functionalized with amine. Equilibrium and kinetic studies, *Cent. Eur. J Chem.*, **7**, 827-835, **2009**.

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Dulman, V., **Buhăceanu, R.**, Luca, C., Neagu, V., Retention of gallium ions from acidic solutions by pyridine strong base anion exchangers*, J. Appl. Polym. Sci*., **86**, 3440-3444 **2002**.

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PhD
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