

DANIELA DÎRȚU

Research themes:

- Kinetic chain reactions
- Environmental chemistry

Kinetic chain reactions

Evaluation of the degradation reaction kinetics in the gas-phase and analysis of the degradation products of a reaction conducted in controlled conditions.

Environmental chemistry

Analysis of organic contaminants from different compartments using the gas and liquid chromatography combined with various detection techniques.

Keywords: kinetic studies, degenerated branching reactions, thermal decomposition, reaction mechanism, liquid chromatography, gas chromatography, water quality, monitoring, organic pollutants, risk assessment



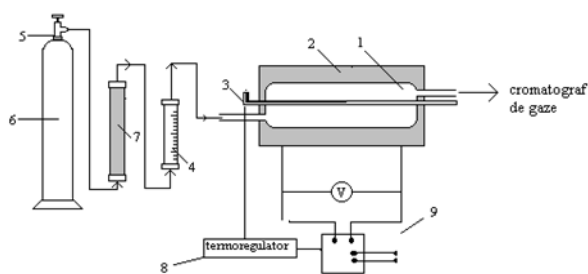
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PHYSICAL
CHEMISTRY

ENVIRONMENTAL
CHEMISTRY



1-reactor de cuarț; 2-cuptor electric; 3-termocuplu; 4-debitmetru pentru amoniac;
5-reductor de presiune; 6-butelie de amoniac lichid (puritate 99.98%);
7-vas de uscare cu silicagel; 8- termoregulator; 9- reostat

Publications (selection)

Dirtu, D., Odochian, L., Dumitraș, M., Contributions to the mechanism of the thermal decomposition reaction of ammonia, *B. I. P. Iași*, 2004, Tomul L, (LIV), Fasc. 3-4, Secția II, Chimie și Inginerie Chimică, p. 23, **2004**.

Dirtu, D., Humelnicu, I., Odochian, L., Contributions to the mechanism of ammonia thermal decomposition III. *Analele Științifice ale Universității "Al. I. Cuza" Iași*, Seria Chimie, tomul XIII, p. 19, **2005**.

Odochian, L., Dirtu, D., Teoria cinetică și mecanismul reacțiilor în lanț II. Reacții în lanț ramificat. Editura Matrix Rom, ISBN 978-973-755-663-9, **2010**.

Odochian, L., Dirtu, D., Pui, A., Humelnicu, I., Tănase, C., Dumitras, M., Hîncu, L., "Procedeu și instalație de obținere a hidrazinei", Brevet de invenție, A/00612, **2006**.

PhD

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