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PAPERS

Gheorghe MARIA

In memoriam Academician Dr. Eng. Emilian Bratu (1904–1991) – The founder of the chemical engineering education in Roumania. 120 years since his birth

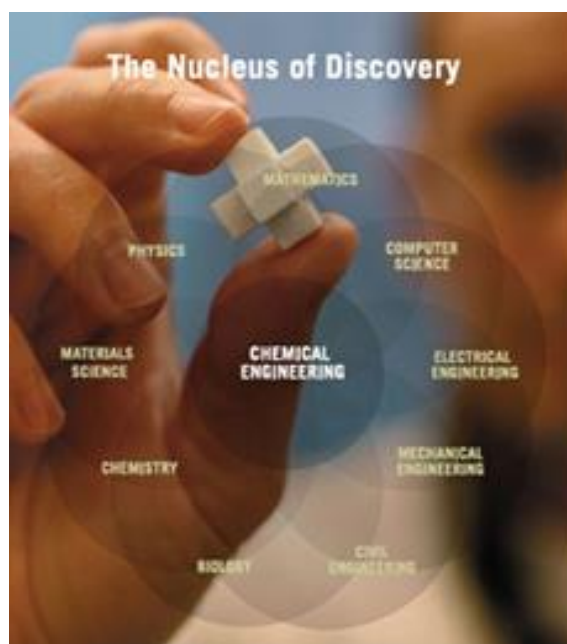


DOI: 10.33224/rrch.2024.69.9.01
Rev. Roum. Chim., 2024, 69(9), 445–468

Key words: Emilian Bratu, *in memoriam*, 120 years since his birth.

Alexandru WOINAROSCHY

The paradigms of chemical engineering

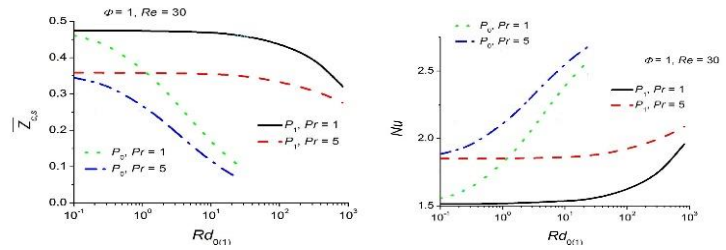


DOI: 10.33224/rrch.2024.69.9.02
Rev. Roum. Chim., 2024, 69(9), 469–473

Key words: chemical engineering, paradigms.

Gheorghe JUNCU

Effect of thermal radiation on the conjugate heat transfer from a circular cylinder with an internal heat source in laminar flow

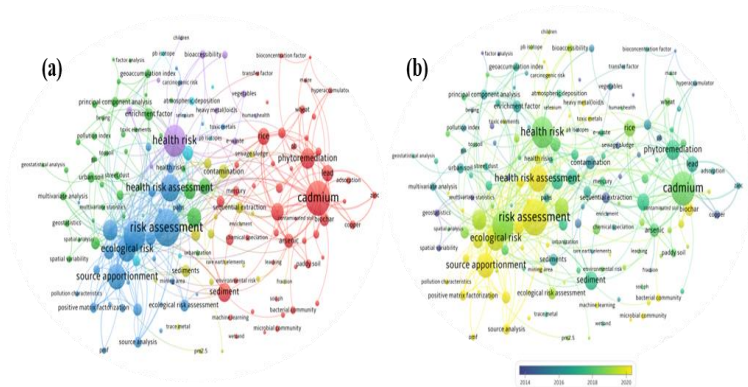


DOI: 10.33224/rrch.2024.69.9.03
 Rev. Roum. Chim., 2024, 69(9), 475–482

Key words: conjugate heat transfer; convection-radiation; Rosseland approximation; P_1 approximation; finite difference; defect correction - multigrid.

Alexandru OZUNU, Elisephane IRANKUNDA, Valeria POP, Zhonghua CUI and Alexandra-Ioana CRĂCIUN

The critical analysis of air pollution and soil pollution with microplastics and heavy metal in Rwanda, Roumania and China

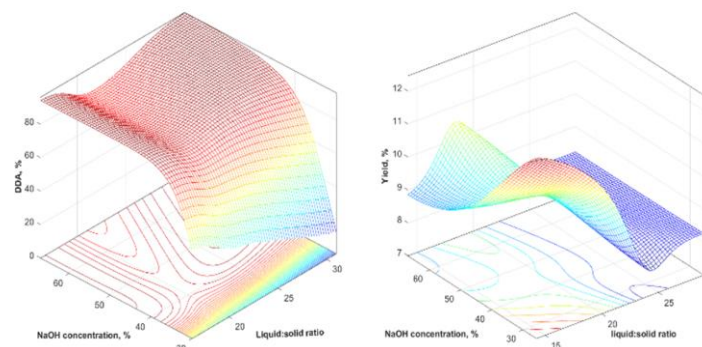


DOI: 10.33224/rrch.2024.69.9.04
 Rev. Roum. Chim., 2024, 69(9), 483–490

Key words: air, soil, microplastic, heavy metal, critical analysis

Cristiana Luminița GÎJIU, Manuela Rossemay APETROAEI, Miruna-Maria APETROAEI, Raluca ISOPESCU, Mirela ANTON, Ileana RĂU and Verginica SCHRÖDER

Optimization of chitosan extraction from crustacean exoskeleton wastes

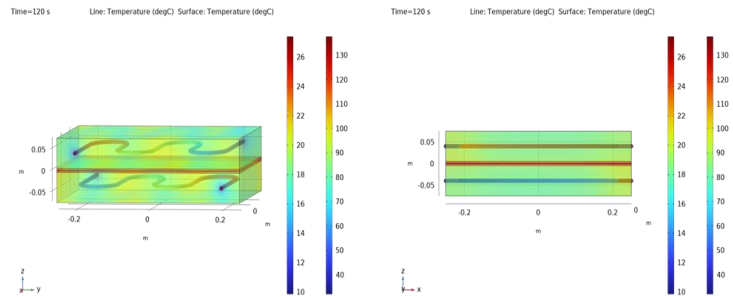


DOI: 10.33224/rrch.2024.69.9.05
 Rev. Roum. Chim., 2024, 69(9), 491–497

Key words: chitosan, marine waste, multiobjective optimization, neural networks.

**Cristiana Luminița GÎJIU, Raluca ISOPESCU,
Paula POSTELNICESCU
and Daniel DINCULESCU**

Heat transfer simulation for injection molding of polylactic acid parts

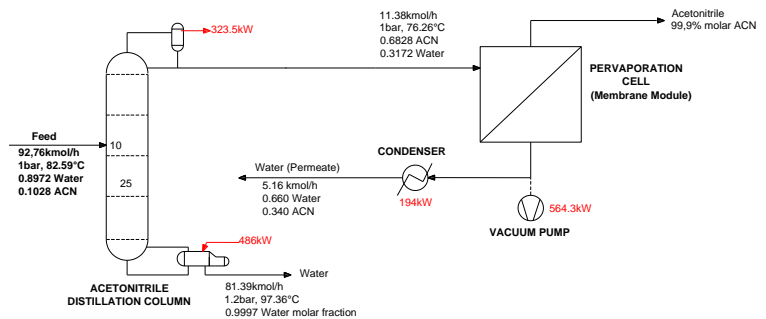


DOI: 10.33224/rrch.2024.69.9.06
Rev. Roum. Chim., 2024, 69(9), 499–503

Key words: polylactic acid, COMSOL heat transfer simulation.

**Valentina CIOCAN
and Cristiana Luminița GÎJIU**

Analysis of the separation of acetonitrile-water mixture

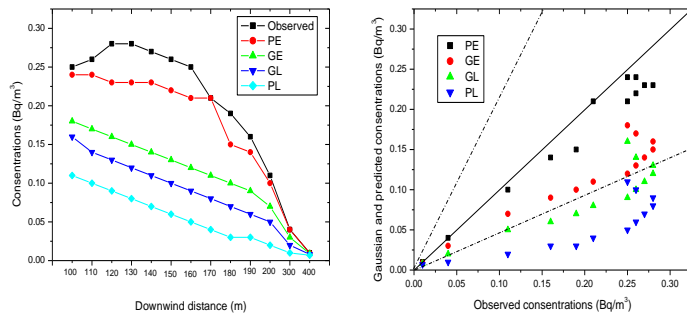


DOI: 10.33224/rrch.2024.69.9.07
Rev. Roum. Chim., 2024, 69(9), 505–510

Key words: acetonitrile, azeotropic mixture, hybrid separation.

**Khaled S. M. ESSA
and Hanaa M. TAHA**

Comparison between Gaussian and advection diffusion equation of Eulerian and Lagrangian integral time scales in stable condition



DOI: 10.33224/rrch.2024.69.9.08
Rev. Roum. Chim., 2024, 69(9), 511–518

Key words: variances of Lagrangian and Eulerian velocity, mean-square particle displacement, Gaussian diffusion model, advection diffusion equation, stable condition.

