

Articole ISI relevante, cu IF mare în ingineria chimică și biochimică

– selecție din peste 140 articole publicate –

Lista completă pe pagina sa Google Scholar și pagina sa web

<https://sites.google.com/site/gheorghemariasite/home/cv>

1. Mihail, R., Straja, S., **Maria, G.**, Musca, G., Pop, G., Kinetic Model for Methanol Conversion to Olefins, **Industrial Engineering Chemistry Process Design Development** 22, 532-538 (**1983**). DOI: 10.1021/i200022a031. (IF = 3.573)
2. **Maria, G.**, Rippin, D.W.T., Modified Integral Procedure (MIP) as a Reliable Short-Cut Method in Mechanistical Based ODE Kinetic Model Estimation: Non-Isothermal and Semi-Batch Process Cases, **Computers & Chemical Engineering** 19, S709-S714 (**1995**). doi:10.1016/0098-1354(95)87118-7. (IF = 4.4)
3. **Maria, G.**, Marin, A., Wyss, C., Müller, S., Newson, E., Modelling and Scaleup of the Kinetics with Deactivation of Methylcyclohexane Dehydrogenation for Hydrogen Energy Storage, **Chemical Engineering Science** 51, 2891-2896 (**1996**). DOI:10.1016/0009-2509(96)00170-4. (IF = 3.871)
4. **Maria, G.**, Rippin, D.W.T., Recursive Robust Kinetics Estimation by Using Mechanistic Short-Cut Technique and a Pattern-Recognition Procedure, **Computers & Chemical Engineering** 20, S587-S592 (**1996**). doi:10.1016/0098-1354(96)00107-X. (IF = 4.4)
5. **Maria, G.**, ARS combination with an evolutionary algorithm for solving MINLP optimization problems, In: **Modelling, Identification and Control**, M.H. Hamza (Ed.), IASTED/ACTA Press, Anaheim (CA), **2003**, Pp. 112-118, [//www.actapress.com/Content_of_Proceeding.aspx?proceedingID=213](http://www.actapress.com/Content_of_Proceeding.aspx?proceedingID=213)
6. Zhang, W., Tichy, S.E., Perez, L.M., **Maria, G.C.**, Lindahl, P.A., Simanek, E.E., Evaluation of Multivalent Dendrimers Based on Melamine. Kinetics of Dithiothreitol - Mediated Thiol-Disulfide Exchange Depends on the Structure of the Dendrimer, **Journal of American Chemical Society** 125(17), 5086-5094 (**2003**). DOI: 10.1021/ja0210906. (IF = 15)
7. **Maria, G.**, A Review of Algorithms and Trends in Kinetic Model Identification for Chemical and Biochemical Systems, **Chemical and Biochem. Eng. Quarterly** 18(3), 195-222 (**2004**). (IF = 2)
8. **Maria, G.**, Enzymatic reactor selection and derivation of the optimal operation policy by using a model-based modular simulation platform, **Comput. & Chem. Eng.** 36(1), 325-341 (**2012**). DOI: 10.1016/j.compchemeng.2011.06.006. (IF = 4.4)
9. **Maria, G.**, Luta, I., Structured cell simulator coupled with a fluidized bed bioreactor model to predict the adaptive mercury uptake by *E. coli* cells, **Comput. & Chem. Eng.**, 58, 98-115 (**2013**). DOI: 10.1016/j.compchemeng.2013.06.004. (IF = 4.4)
10. **Maria, G.**, Application of (bio) chemical engineering principles and lumping analysis in modelling the living systems, **Current Trends in Biomedical Engineering & Biosciences**, 1 (4) (Juniper publ, Irvine, USA), CTBEB.MS.ID.555566 (**2017**), (IF= 0.85) <https://juniperpublishers.com/ctbeb/volume1-issue4-ctbeb.php>
11. **Maria, G.**, Crișan, M., Operation of a mechanically agitated semi-continuous multi-enzymatic reactor by using the Pareto-optimal multiple front method, **Journal of Process Control**, 53, 95-105, (IF = 4.1), (**2017**). DOI: 10.1016/j.procont.2017.02.004

12. **Maria, G.**, Gijiu, C.L., Maria, C., Tociu, C., Interference of the oscillating glycolysis with the oscillating tryptophan synthesis in the *E. coli* cells, **Computers and Chemical Engineering**, **108** (2018), 395-407, (IF = 4.4).
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13. **Maria, G.**, Mihalachi, M., Gijiu, C.L., *In silico* optimization of a bioreactor with an *E. coli* culture for tryptophan production by using a structured model coupling the oscillating glycolysis and tryptophan synthesis, **Chemical Eng. Res. and Design**, **135**, 207-221, **2018**, (IF = 4), <https://doi.org/10.1016/j.cherd.2018.05.011>;
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doi:10.1016/j.ces.2004.11.009. (IF = 3.871);
15. **Maria, G.**, Rippin, D.W.T., Modified Integral Procedure (MIP) as a Reliable Short-Cut Method for Kinetic Model Estimation : Isothermal, Non-Isothermal and (Semi-) Batch Process Cases, **Computers & Chemical Engineering** **21**, 1169-1190 (**1997**). doi:10.1016/S0098-1354(96)00328-6. (IF = 4.4).
16. **Maria, G.**, Model-based optimisation of a batch reactor with a coupled bi-enzymatic process for mannitol production, **Computers & Chemical Engineering**, 133, (**2020**), pp. 106628-106635, (IF = 4.4), <https://doi.org/10.1016/j.compchemeng.2019.106628>;
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21. Dan, A., **Maria, G.**, Pareto Optimal Operating Solutions for a Semibatch Reactor Based on Failure Probability Indices, *Chemical Engineering & Technology*, 35(6), 1098-1103 (2012). DOI: 10.1002/ceat.201100706. (IF = 3). ISSN= 0930-7516.