

## Lista de Publicații

### Books

1. A. Imre-Lucaci, A.M. Cormos, MATLAB, Examples and application in chemical engineering, (in Romanian), Ed. University Pres, 2008, 510 pg, ISBN 978-973-610-661-3.
2. S.P. Agachi et al. (A.M. Cormos). Research National System, Development and Innovation for Integration in Research European Area (in Romanian), Romanian Academic Pres, 2006, 684 pg.

### ISI international journals

1. I.D. Dumbrava, C. C. Cormos, A. Imre-Lucaci, *A.M. Cormos*, CFD modelling of supercritical water reforming of glycerol for hydrogen production, *International Journal of Hydrogen Energy*, 2021 (in press)
2. V.C. Sandu, *A.M. Cormos*, I.D. Dumbrava, A. Imre-Lucaci, C.C. Cormos, R. de Boer, J. Boon, S. Sluijter. Assessment of CO<sub>2</sub> capture efficiency in packed bed versus 3D-printed monolith reactors for SEWGS using CFD modeling, *International Journal of Greenhouse Gas Control*, 2021, 111, 103447
3. C.C. Cormos, L. Petrescu, A. M. Cormos, C. Dinca. Assessment of Hybrid Solvent—Membrane Configurations for Post-Combustion CO<sub>2</sub> Capture for Super-Critical Power Plants, *Energies* 2021, 14(16), 5017
4. *A.M. Cormos*, S. Dragan, C.C. Cormos, Techno-economic and environmental assessment of flexible operation for decarbonized super-critical power plants using reactive gas–liquid absorption, *Applied Thermal Engineering* 2021, 197, 117354
5. S. Szima, C. Arnaiz del Pozo, S. Cloete, P Chiesa, A.J. Alvaro, A. M. Cormos, S. Amini, Finding synergy between renewables and coal: Flexible power and hydrogen production from advanced IGCC plants with integrated CO<sub>2</sub> capture, *Energy Conversion and Management*, 2021, 231, 113866
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8. V.M. Cristea, M. I. Burca, F. M. Ilea, *A. M. Cormos*. Efficient decentralized control of the post combustion CO<sub>2</sub> capture plant for flexible operation against influent flue gas disturbances, *Energy* 2020, 205,117960.
9. *A. M. Cormos*, V. C. Sandu, C. C. Cormos. Assessment of main energy integration elements for decarbonized gasification plants based on thermo-chemical looping cycles, *Journal of Cleaner Production* 2020, 259,120834.
10. *A. M. Cormos*, S. Dragan, L. Petrescu, V. Sandu, C.C. Cormos. Techno-economic and environmental evaluations of decarbonized fossil-intensive industrial processes by reactive absorption and adsorption CO<sub>2</sub> capture systems, 2020, *Energies*, 13(5), en13051268.
11. S. Szima, S., S.M. Nazir, S. Cloete, S., S Fagarasi, S. Amini, A.M. Cormos, C.C. Cormos, Gas switching reforming for flexible power and hydrogen production to balance variable renewables, *Renewable and Sustainable Energy Reviews* 2019, 110, 207-219.

12. V. C. Sandu, C. C. Cormos, A. M. Cormos. Assessment of various water-gas-shift process configurations applied to partial oxidation energy conversion processes with carbon capture, *Studia Universitatis Babeş-Bolyai Chemia* 2019, 64(2Tom2), 371-381.
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14. A. M. Cormos, Cormos Calin-Cristian, Techno-economic assessment of combined hydrogen & power co-generation with carbon capture: The case of coal gasification, *Applied Thermal Engineering* 2019, 147, 29-39.
15. D.-A., Chisalita, L. Petrescu, A.M. Cormos, C. C. Cormos, Assessing the environmental impact of an integrated steel mill with post-combustion CO<sub>2</sub> capture and storage using the LCA methodology, *Journal of Cleaner Production* 2019, 211, 1015-1025.
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25. R. Both, E.-H., Dulf, A. M. Cormos, Advanced control of a complex chemical process, *Brazilian Journal of Chemical Engineering*, 2016, 33 (1), 155-168.
26. A.M. Cormos, A. Simon, Assessment of CO<sub>2</sub> Capture by Calcium-looping Process in a Flexible Power Plant Operation Scenario, *Applied Thermal Engineering*, 2015, 80, 319-327.
27. A.M. Cormos, I.M. Daraban, Dynamic modeling and validation of amine-based CO<sub>2</sub> capture plant, *Applied Thermal Engineering*, 2015, 74, 202-209.
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35. J. Tasnadi-Asztalos, A. Imre-Lucaci, A.M. Cormos, M.D. Lazar, P.S. Agachi, Thermodynamic study and kinetic modeling of bioethanol steam reforming, *Studia UBB Chemia*, 2013, LVIII,4, 101-112.
36. A.M. Cormos, J. Gaspar, Assessment of mass transfer and hydraulic aspects of CO<sub>2</sub> absorption in packed column, *International Journal of Greenhouse Gas Control*, 2012, 6, 201-209.
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3. C. C. Cormos, A. M. Cormos, L. Petrescu, C. Dinca, Decarbonization of fossil energy-intensive industrial processes using innovative calcium looping technology, *Chemical Engineering Transactions*, 2021, 86, pp. 937–942 (ICHEAP, Napoli, Italy, 23-26 May 2021 - online)
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