

## *Lista articolelor publicate în reviste indexate ISI-Rami A DOUKEH*

### *A. Articole ISI în calitate de prim autor*

1. **Doukeh Rami**, Andreea-Cătălina Joe, Ion Onuțu, Iuliana Veronica Ghețiu, Marian Băjan, Gabriel Vasilevici, Dorin Bomboș, Abeer Baioun, Cașen Panaitescu, Ionuț Banu, and et al. 2025. "A Glycerol Acetylation Study on a Tin Ferrite Nanocatalyst" *ChemEngineering* 9, no. 4: 86. <https://doi.org/10.3390/chemengineering9040086> . (Q2, IF:3,4).
2. **Doukeh Rami**, Iuliana Veronica Ghețiu, Timur Vasile Chiș, Doru Bogdan Stoica, Gheorghe Brănoiu, Ibrahim Naim Ramadan, Ștefan Alexandru Gavrilă, Marius Gabriel Petrescu, and Rami Harkouss. 2025. "Hydrogen–Rock Interactions in Carbonate and Siliceous Reservoirs: A Petrophysical Perspective" *Applied Sciences* 15, no. 14: 7957. <https://doi.org/10.3390/app15147957>. **(Clasificare Q1 la data publicării, IF:2.5)**.
3. **Doukeh Rami**, Daniela Craciun, Maria Lehene, Adrian M. V. Branzanic, Alexandru Lupan, and Radu Silaghi-Dumitrescu. 2024. "An Iron-Free Nitrogenase? Computational Estimation of the Ability to Bind/Activate N<sub>2</sub> in Manganese and Cobalt Complexes." *Journal of Coordination Chemistry* 77 (12–14): 1597–1606. <https://doi:10.1080/00958972.2024.2372812>. (Q3, IF:2,1).
4. **Rami Doukeh**, Daniela Crăciun, Alexandru Lupan, Adrian M.V. Brânzanic, Radu Silaghi-Dumitrescu. 2023. "Effect of the coordination environment on the ability of iron to bind/activate N<sub>2</sub>: A theoretical study with relevance to the nitrogenase mechanism". *Polyhedron* 2023, 243, 116571, <https://doi.org/10.1016/j.poly.2023.116571>. (Q2, IF:2,6)
5. **Doukeh Rami**, Maria Râpă, Ecaterina Matei, Doina Prodan, Romuald György, Ancuta Trifoi, and Ionut Banu. 2023. "An Evaluation of Glycerol Acetalization with Benzaldehyde over a Ferromagnetic Heteropolyacid Catalyst" *Catalysts* 13, no. 4: 782. <https://doi.org/10.3390/catal13040782>. (Q2, IF:4).
6. **Rami Doukeh**, Cristian Leostean, Ion Bolocan, Ancuta Roxana Trifoi, Ionut Banu. 2021. " Rhenium Effect on the Performance of CoMoNi/γ-Al<sub>2</sub>O<sub>3</sub> Catalyst in Thiophene Hydrodesulphurization. Performance Evaluation and Process Kinetics". *ChemistrySelect* 6: 3858-3868. <https://doi.org/10.1002/slct.202004326>. (Q3, IF:3).
7. **Rami Doukeh**, Dorin Bombos, Mihaela Bombos, Elena-Emilia Oprescu, Gheorghe Dumitrascu, Gabriel Vasilevici, Catalina Calin. 2021. "Catalytic hydrotreating of bio-oil and evaluation of main noxious emissions of gaseous phase". *Scientific Reports* 11: 6176. <https://doi.org/10.1038/s41598-021-85244-z>. **(Q1, IF:3,9)**.
8. **Rami Doukeh**, Mihaela Bombos, Dorin Bombos, Gabriel Vasilevici, Elena Radu, Elena-Emilia Oprescu. " Pyrolysis of digestate from anaerobic digestion on tungsten oxide

- catalyst ". 2021. *Reaction Kinetics, Mechanisms and Catalysis* 132: 829-838. <https://doi.org/10.1007/s11144-021-01952-7>. (Q3, IF:1,7).
9. **Rami Doukeh**, Daniela Popovici, Ancuța Trifoi, Mihaela Bombos, Ionuț Banu. 2020. "A study on the alkylation of m-cresol with 1-decene over mesoporous silica supported tungstophosphoric acid (HPW)". *Reaction Kinetics, Mechanisms and Catalysis* 131: 793-804. <https://doi.org/10.1007/s11144-020-01895-5>. (Q3, IF:1,7).
  10. **Rami Doukeh**, Mihaela Bombos, Ancuta Trifoi, Oana Mihai, Daniela Popovici, Ion Bolocan, Dorin Bombos. 2018. "Kinetics of thiophene hydrodesulfurization over a supported Mo–Co–Ni catalyst". *Comptes Rendus Chimie* 21 (3-4): 277-287. <https://doi.org/10.1016/j.crci.2017.07.001>. (Q4, IF:0,6).
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  12. **Rami Doukeh**, Mihaela Bombos, Ion Bolocan. 2019. "Comparative Study Between two Reaction Kinetic Mechanisms of Thiophene Hydrodesulphurization over CoMo /gamma - Al<sub>2</sub>O<sub>3</sub> Supported Catalyst". *Revista de Chimie* 70 (7): 2481-2484. <https://doi.org/10.37358/RC.19.7.7365>. (Clasificare Q3 la data publicării).
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  15. **Rami Doukeh**, Ancuta Trifoi, Mihaela Bombos, Ionut Banu, Minodora Pasare, Ion Bolocan. 2018. "Hydrodesulphurization of Thiophene over Co, Mo and CoMo /g-Al<sub>2</sub>O<sub>3</sub> Catalysts". *Revista de Chimie* 69 (2): 396-399. <https://doi.org/10.37358/RC.18.2.6114>. (Clasificare Q3 la data publicării).
  16. **Rami Doukeh**, Mihaela Bombos, Ancuta Trifoi, Minodora Pasare, Ionut Banu, Ion Bolocan. 2017. "Dimethyldisulphide Hydrodesulphurization on NiCoMo / Al<sub>2</sub>O<sub>3</sub> Catalyst". *Revista de Chimie* 68 (7): 1496-1500. <https://doi.org/10.37358/RC.17.7.5703>. (Clasificare Q3 la data publicării).

## *B. Articole ISI în calitate de autor corespondent*

1. Stan Ioana Gabriela, Mihail Tudose, Alina Petronela Prundurel, Gheorghe Branoiu, Liviu Dumitrache, Silvian Suditu, Doru Bogdan Stoica, Emil Zaharia, and **Rami Doukeh**. 2025. "Imidazoline-Based Fatty Acid Derivatives as Novel Shale Inhibitors for Water-Based Drilling Fluids" *Applied Sciences* 15, no. 20: 11050. <https://doi.org/10.3390/app152011050>. (Q2, IF:2.5).
2. Charif, Mirna Lea, **Rami Doukeh**, and Dragos Mihael Ciuparu. 2025. "The Catalytic Performance of Metal-Oxide-Based Catalysts in the Synthesis of Glycerol Carbonate: Toward the Green Valorization of Glycerol" *Catalysts* 15, no. 6: 534. <https://doi.org/10.3390/catal15060534>. (Q2, IF:4).
3. Eparu, Cristian Nicolae, Alina Petronela Prundurel, **Rami Doukeh**, Doru Bogdan Stoica, Iuliana Veronica Ghețiu, Silviu Suditu, Ioana Gabriela Stan, and Renata Rădulescu. 2024. "Optimizing Underground Natural Gas Storage Capacity through Numerical Modeling and Strategic Well Placement" *Processes* 12, no. 10: 2136. <https://doi.org/10.3390/pr12102136>. (Q3, IF:2,8).
4. Lixandru Matei, Ioana Lavinia, Bogdan Alexandru Sava, Codruta Sarosi, Cristina Dușescu-Vasile, Daniela Roxana Popovici, Andreea Iuliana Ionescu, Dorin Bomboș, Marian Băjan, and **Rami Doukeh**. 2024. "The Influence of PEG 4000 on the Physical and Microstructural Properties of 58S Bioactive Glasses" *Nanomaterials* 14, no. 16: 1323. <https://doi.org/10.3390/nano14161323>. **(Clasificare Q1 la data publicării, IF:4,3)**
5. Prodan, Doina, Marioara Moldovan, Stanca Cuc, Codruța Sarosi, Ioan Petean, Miuța Filip, Rahela Carpa, **Rami Doukeh**, and Ioana-Codruta Mirica. 2024. "Advanced Dentistry Biomaterials Containing Graphene Oxide" *Polymers* 16, no. 12: 1743. <https://doi.org/10.3390/polym16121743>. **(Q1, IF:4,9)**.
6. Ancuța Roxana Trifoi, Ecaterina Matei, Maria Râpă, Andrei-Constantin Berbecaru, Cașen Panaitescu, Ionut Banu, **Rami Doukeh**. 2023. "Coprecipitation nanoarchitectonics for the synthesis of magnetite: a review of mechanism and characterization". *Reaction Kinetics, Mechanisms and Catalysis* 136: 2835–2874. <https://doi.org/10.1007/s11144-023-02514-9>. (Q3, IF:1,7).
7. Catalina Calin, Cristian Leostean, Ancuța Roxana Trifoi, Elena-Emilia Oprescu, Elizabeth Wiita, Ionut Banu, **Rami Doukeh**. 2021. "Mutual inhibition effect of sulfur compounds in the hydrodesulfurization of thiophene, 2-ethylthiophene and benzothiophene ternary mixture". *Scientific Reports* 11: 19053. <https://doi.org/10.1038/s41598-021-98552-1>. **(Q1, IF:3,9)**.

8. Bondarev, Andreea, Daniela Roxana Popovici, Cătalina Călin, Sonia Mihai, Elena-Emilia Sîrbu, **Rami Doukeh**. 2023. "Black Tea Waste as Green Adsorbent for Nitrate Removal from Aqueous Solutions" *Materials* 16, no. 12: 4285. <https://doi.org/10.3390/ma16124285>. (Clasificare Q1 la data publicării, IF:3,2).
9. Ancuta Trifoi, Timea Gherman, Olimpiu Blajan, Myrat Velnazarov, **Rami Doukeh**. 2019. "Processing Technology and Resveratrol Rich Extract from By-products in Wine Industry". *Revista de Chimie* 70 (12): 4133-4137. <https://doi.org/10.37358/RC.19.12.7722>. (Clasificare Q3 la data publicării).

### C. Articole ISI în calitate de co-autor

1. Charif, Mirna Lea, Dragoș Mihael Ciuparu, Ioana Lavinia Lixandru Matei, Gabriel Vasilevici, Ionuț Banu, Marian Băjan, Dorin Bomboș, Cristina Dușescu-Vasile, Iuliana Veronica Ghețiu, Cașen Panaitescu, **Rami Doukeh**. 2025. "An Experimental Study of Glycerol Carbonate Synthesis over g-C<sub>3</sub>N<sub>4</sub> Catalysts" *Applied Sciences* 15, no. 11: 6236. <https://doi.org/10.3390/app15116236>. (Clasificare Q1 la data publicării, IF:2,5).
2. Andrei Moldovan, Ioan Sarosi, Stanca Cuc, Doina Prodan, Adrian Catalin Taut, Ioan Petean, Dorin Bombos, **Rami Doukeh**, Ovidiu Nemes, Sorin Claudiu Man. 2025. "Development and characterization of PLA food packaging composite". *Journal of Thermal Analysis and Calorimetry* 150: 2469–2481. <https://doi.org/10.1007/s10973-024-13841-x>. (Q2, IF:3,1).
3. Eparu, Cristian Nicolae, Silvian Suditu, **Rami Doukeh**, Doru Bogdan Stoica, Iuliana Veronica Ghețiu, Alina Prundurel, Ioana Gabriela Stan, and Liviu Dumitrache. 2024. "Software for CO<sub>2</sub> Storage in Natural Gas Reservoirs" *Energies* 17, no. 19: 4984. <https://doi.org/10.3390/en17194984>. (Q3, IF:3,2).
4. Gheorghe, Viorel, Catalina Gabriela Gheorghe, Daniela Roxana Popovici, Sonia Mihai, Catalina Calin, Elena Emilia Sarbu, **Rami Doukeh**, Nicoleta Grigoriu, Constantin Nicolae Toader, Cristiana Epure, and et al. 2023. "Synthesis, Purity Check, Hydrolysis and Removal of o-Chlorobenzyliden Malononitrile (CBM) by Biological Selective Media" *Toxics* 11, no. 8: 672. <https://doi.org/10.3390/toxics11080672>. (Q1, IF:4,1).
5. Moldovan, Andrei, Stanca Cuc, Doina Prodan, Mircea Rusu, Dorin Popa, Adrian Catalin Taut, Ioan Petean, Dorin Bomboș, **Rami Doukeh**, Ovidiu Nemes. 2023. "Development and Characterization of Polylactic Acid (PLA)-Based Nanocomposites

- Used for Food Packaging" *Polymers* 15, no. 13: 2855. <https://doi.org/10.3390/polym15132855>. (Q1, IF:4,9).
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  7. Elena Madalina Popescu, Octav Pantea, Daniela Gologan, **Rami Doukeh**. 2019. "Hydrogen Peroxide and Peracetic Acid Oxidizing Potential in the Treatment of Water". *Revista de Chimie* 70 (6): 2036-2039. <https://doi.org/10.37358/RC.19.6.7270>. (Clasificare Q3 la data publicării).
  8. Constantin Sorin Ion, Mihaela Bombos, **Rami Doukeh**, Gabriel Vasilevici, Vasile Matei. 2018. "Kinetics of 1-dodecanethiol Desulfurization by Reactive Adsorption on MgO/dolomite". *Revista de Chimie* 69 (12): 3439-3444. <https://doi.org/10.37358/RC.18.12.6765>. (Clasificare Q3 la data publicării).
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