

Avizat,
 Director CSUD al IOSUD UPG Ploiești
 Prof. univ. dr. ing. Rîpeanu Răzvan George

FISA referitoare la îndeplinirea standardelor minimale necesare și obligatorii pentru susținerea tezei de abilitare în domeniul - INGINERIE CHIMICĂ conform Anexei nr. 8 ordinul 6.129/2016

1. Studiile de doctorat

| Nr. crt. | Instituția organizatoare de doctorat | Domeniul | Perioada | Titlul teza doctorat |
|----------|--|-------------------|-----------|--|
| 1 | Universitatea Petrol - Gaze din Ploiești | Inginerie Chimică | 2014-2019 | Catalizatori pentru hidrodesulfurarea compușilor aromatici cu sulf |

2. Îndeplinirea standardelor minimale

| Criteriul | Nr. minim impus | Nr. realizat | | |
|--|-----------------|------------------|-----------------|-----------|
| NTOP | ≥ 4 | 4 | | |
| NP - număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) | 20 | 25 | | |
| FIC - factor de impact cumulat (suma factorilor de impact ale revistelor la momentul înscrierii la concurs) | 30 | FIC din articole | FIC din brevete | FIC TOTAL |
| | | 52,22 | 1 | 53,22 |
| NC - număr total de citări (din baza SCOPUS) | ≥ 120 | 250 | | |
| NCO ≥ 1 | 1 | 1 | | |

3. Tabel cu articole ISI (indicatorii NT, NP și FIC din articole ISI)

| Nr. crt. | Autorii/titulul lucrării/titulul revistei/ /anul/vol/nr./pag. de la-până la/ISSN | Nr autori /prim autor/autor de corespondență | Factorul de impact al revistei | Factorul de impact ce revine candidatului |
|----------|---|--|--------------------------------|---|
| | 1 | | | |

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|---|---|----------------|-----|-----|
| 2 | Doukeh Rami , Iuliana Veronica Ghețiu, Timur Vasile Chiș, Doru Bogdan Stoica, Gheorghe Brănoiu, Ibrahim Naim Ramadan, Ștefan Alexandru Gavrilă, Marius Gabriel Petrescu, 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 . (Q2, IF:2.5). | 9 / prim autor | 2,5 | 2,5 |
| 3 | Doukeh Rami , Daniela Craciun, Maria Lehene, Adrian M. V. Branzanic, Alexandru Lupan, Radu Silaghi-Dumitrescu. 2024. "An Iron-Free Nitrogenase? Computational Estimation of the Ability to Bind/Activate N2 in Manganese and Cobalt Complexes." Journal of Coordination Chemistry 77 (12–14): 1597–1606. https://doi.org/10.1080/00958972.2024.2372812 . (Q3, IF:2,1). | 6 / prim autor | 2,1 | 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 N2: 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 / prim autor | 2,6 | 2,6 |
| 5 | Doukeh Rami , Maria Râpă, Ecaterina Matei, Doina Prodan, Romuald György, Ancuta Trifoi, 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). | 7/ prim autor | 4 | 4 |
| 6 | Rami Doukeh , Cristian Leostean, Ion Bolocan, Ancuta Roxana Trifoi, Ionut Banu. 2021. "Rhenium Effect on the Performance of CoMoNi/γ-Al2O3 Catalyst in Thiophene Hydrodesulphurization. Performance Evaluation and Process Kinetics". ChemistrySelect 6: 3858-3868. https://doi.org/10.1002/slct.202004326 . (Q3, IF:2). | 5 / prim autor | 2 | 2 |
| 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). | 7 / prim autor | 3,9 | 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). | 6 / prim autor | 1,7 | 1,7 |

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|----|---|----------------|-----|-----|
| 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). | 5 / prim autor | 1,7 | 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). | 7 / prim autor | 0,6 | 0,6 |
| 11 | Rami Doukeh , Traian Juganaru, Ion Bolocan. 2019. "Hydrodesulfurization of Dibenzothiophene on a CoNiMo Catalyst". Revista de Chimie 70 (9): 3132-3135. https://doi.org/10.37358/RC.19.9.7502 . (Clasificare Q3 la data publicării). | 3 / prim autor | 0 | 0 |
| 12 | Rami Doukeh , Mihaela Bombos, Ion Bolocan. 2019. "Comparative Study Between two Reaction Kinetic Mechanisms of Thiophene Hydrodesulphurization over CoMo /gamma - Al2O3 Supported Catalyst". Revista de Chimie 70 (7): 2481-2484. https://doi.org/10.37358/RC.19.7.7365 . (Clasificare Q3 la data publicării). | 3 / prim autor | 0 | 0 |
| 13 | Rami Doukeh , Mihaela Bombos, Daniela Popovici, Minodora Pasare, Ion Bolocan. 2019. "Effect of Support on the Performance of CoMoRe Catalyst in Thiophene and Benzothiophene Hydrodesulfurization". Revista de Chimie 70, (1): 27-32. https://doi.org/10.37358/RC.19.1.6844 . (Clasificare Q3 la data publicării). | 5 / prim autor | 0 | 0 |
| 14 | Rami Doukeh , Mihaela Bombos, Marioara Moldovan, Ion Bolocan. 2018. "Hydrodesulphurization of Thiophenes over CoMoRe/ ZSM 5gamma-Al2O3 Catalyst". Revista de Chimie 69 (6): 1386-1390. https://doi.org/10.37358/RC.18.6.6330 . (Clasificare Q3 la data publicării). | 4 / prim autor | 0 | 0 |
| 15 | Rami Doukeh , Ancuta Trifoi, Mihaela Bombos, Ionut Banu, Minodora Pasare, Ion Bolocan. "Hydrodesulphurization of Thiophene over Co, Mo and CoMo /g-Al2O3 Catalysts". Revista de Chimie 69 (2): 396-399. https://doi.org/10.37358/RC.18.2.6114 . (Clasificare Q3 la data publicării) | 6 / prim autor | 0 | 0 |
| 16 | Rami Doukeh , Mihaela Bombos, Ancuta Trifoi, Minodora Pasare, Ionut Banu, Ion Bolocan. 2017. "Dimethyldisulphide Hydrodesulphurization on NiCoMo / Al2O3 Catalyst". Revista de Chimie 68 (7): 1496-1500. https://doi.org/10.37358/RC.17.7.5703 . (Clasificare Q3 la data publicării). | 6 / prim autor | 0 | 0 |

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|----|--|---------------------------|-----|-----|
| 17 | 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 . | 9/autor de corespondență | 2,5 | 2,5 |
| 18 | Charif Mirna Lea, Rami Doukeh , 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/autor de corespondență | 4 | 4 |
| 19 | Lixandru Matei, Ioana Lavinia, Bogdan Alexandru Sava, Codruta Sarosi, Cristina Dușescu-Vasile, Daniela Roxana Popovici, Andreea Iuliana Ionescu, Dorin Bomboș, Marian Băjan, 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 . (Q2, IF:4,3) | 10/autor de corespondență | 4,3 | 4,3 |
| 20 | Prodan, Doina, Marioara Moldovan, Stanca Cuc, Codruța Sarosi, Ioan Petean, Miuța Filip, Rahela Carpa, Rami Doukeh , Ioana-Codruta Mirica. 2024. "Advanced Dentistry Biomaterials Containing Graphene Oxide" Polymers 16, no. 12: 1743. https://doi.org/10.3390/polym16121743 . (Q1, IF:3,9). | 9/autor de corespondență | 4,9 | 4,9 |
| 21 | Ancuța Roxana Trifoi, Ecaterina Matei, Maria Râpă, Andrei-Constantin Berbecaru, Cașen Panaitescu, Ionut Banu, Rami Doukeh . 2023. "Cocprecipitation 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/autor de corespondență | 1,7 | 1,7 |
| 22 | 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). | 7/autor de corespondență | 3,9 | 3,9 |
| 23 | Bondarev Andreea, Daniela Roxana Popovici, Cătălina 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). | 6/autor de corespondență | 3,2 | 3,2 |

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|----|---|--------------------------|-----|------|
| 24 | Ancuta Trifoi, Timea Gherman, Olimpiu Blajan, Myrat Velnazarov, Rami Doukeh . 2019. "Processing Technology and Resveratrol Rich Extract from By-products in Wine Industry". <i>Revista de Chimie</i> 70 (12): 4133-4137. https://doi.org/10.37358/RC.19.12.7722 . (Clasificare Q3 la data publicării). | 5/autor de corespondență | 0 | 0 |
| 25 | 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-C3N4 Catalysts" <i>Applied Sciences</i> 15, no. 11: 6236. https://doi.org/10.3390/app15116236 . (Clasificare Q1 la data publicării, IF:2,5). | 11/co-autor | 2,5 | 0,23 |
| 26 | 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". <i>Journal of Thermal Analysis and Calorimetry</i> 150: 2469–2481. https://doi.org/10.1007/s10973-024-13841-x . (Q2, IF:3,1). | 10/co-autor | 3,1 | 0,31 |
| 27 | 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" <i>Toxics</i> 11, no. 8: 672. https://doi.org/10.3390/toxics11080672 . (Q1, IF:4,1). | 11/co-autor | 4,1 | 0,37 |
| 28 | Moldovan, Andrei, Stanca Cuc, Doina Prodan, Mircea Rusu, Dorin Popa, Adrian Catalin Taut, Ioan Petean, Dorin Bomboș, Rami Doukeh , and Ovidiu Nemes. 2023. "Development and Characterization of Polylactic Acid (PLA)-Based Nanocomposites Used for Food Packaging" <i>Polymers</i> 15, no. 13: 2855. https://doi.org/10.3390/polym15132855 . (Q1, IF:4,9). | 10/co-autor | 4,9 | 0,49 |
| 29 | Elena-Emilia Oprescu, Cristina-Emanuela Enascuta, Rami Doukeh , Catalina Calin, Vasile Lavric. 2021. "Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates". <i>Renewable Energy</i> 176: 651-662. https://doi.org/10.1016/j.renene.2021.05.120 . (Q1, IF:9,1). | 5/co-autor | 9,1 | 1,82 |
| 30 | Elena Madalina Popescu, Octav Pantea, Daniela Gologan, Rami Doukeh . 2019. "Hydrogen Peroxide and Peracetic Acid Oxidizing Potential in the Treatment of Water". <i>Revista de Chimie</i> 70 (6): 2036-2039. https://doi.org/10.37358/RC.19.6.7270 . (Clasificare Q3 la data publicării). | 5/co-autor | 0 | 0 |

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|---|---|------------|---|--------------|
| 31 | Constantin Sorin Ion, Mihaela Bombos, Rami Doukeh , Gabriel Vasilievici, 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). | 5/co-autor | 0 | 0 |
| 32 | Ancuta Trifoi, Andreea Turcanu, Rami Doukeh , Timea Gherman, Petru Filip, Mihaela Bombos. 2018. "Catalytic Activity of Tungstophosphorous Acid Supported on Mesoporous Silica for Glycerol Acetalisation to Glycerol Formal". Revista de Chimie 69 (10): 2617-2620. https://doi.org/10.37358/RC.18.10.6592 . (Clasificare Q3 la data publicării). | 5/co-autor | 0 | 0 |
| 33 | 10. Sanda Velea, Mihaela Bombos, Gabriel Vasilievici, Rami Doukeh , Dorin Bombos. 2017. "Component for Gasoline by Hydroconversion of Furfural Derivates in Presence of Methanol". Revista de Chimie 68 (7): 1512-1517. https://doi.org/10.37358/RC.17.7.5706 . (Clasificare Q3 la data publicării). | 5/co-autor | 0 | 0 |
| 34 | Andra Ioana Popescu (Stanica), Mihaela Bombos, Rami Doukeh , Dorin Bombos, Ion Bolocan. 2016. "Hydrogenation of Naphthalene on Ni-Co-Mo-Re / gamma-Al ₂ O ₃ Catalyst". Revista de Chimie 67 (9):1838-1842. (Clasificare Q3 la data publicării). | 5/co-autor | 0 | 0 |
| 35 | Andra Ioana Popescu (Stanica), Mihaela Bombos, Rami Doukeh , Dorin Bombos, Ion Bolocan. 2016. "Acidity Influence of Ru Catalysts on the Hydrogenation of Naphtalene". Revista de Chimie 67 (3): 570-574. (Clasificare Q3 la data publicării). | 5/co-autor | 0 | 0 |
| NTOP | | | | 4 |
| NP - număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) | | | | 25 |
| FIC - factor de impact cumulat (suma factorilor de impact ale revistelor la momentul înscrierii la concurs) | | | | 52.12 |

4. Tabel cu brevete naționale și internaționale (indicatorul FIC din brevete)

| Nr. crt. | Brevetul, autorii, titlul brevetului, instituția care l-a acordat, țara în care se află instituția, data acordării brevetului. | Tipul brevetului (național/internațional) | Număr autori | Factorul de impact al brevetului | Factorul de impact ce revine candidatului |
|--------------------------------------|---|---|--------------|----------------------------------|---|
| 7 | Velea S., Bombos M., Doukeh R. , Vasilevici G., Bombos D., Oprescu E.-E., Calin C., Catalizator pe bază de Mo și procedeu de piroliză lentă a biomasei pe acest catalizator, Osim. /29.11.2021 | național | 7 | 1 | 1 |
| Indicatorul FIC (din brevete) | | | | | 1 |

5. Lista citărilor lucrărilor publicate (indicatorul NC)

S-au luat in considerare citările din baza de date SCOPUS: *Autocitarile au fost excluse din calculul numarului total de citari.* NC:246

6. NCO ≥ 1 (număr contracte in calitate de Director proiect)

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| Proiect de cercetare - Director proiect | Valorificarea reziduurilor petroliere de pe platforma RAFO prin piroliză catalitică (Contract de cercetare nr. 4788/10.06.2022), valoare proiect 83300 lei |
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Data 06.11.2025

Șef lucr.dr.ing. Rami A DOUKEH