

### **Ash characterisation formed under different oxy-fuel circulating fluidized bed conditions**

**Baqain, Mais Hanna Suleiman; Yörük, Can Rüstü; Nešumajev, Dmitri; Järvik, Oliver; Konist, Alar** Fuel 2023 / art. 127244

<https://doi.org/10.1016/j.fuel.2022.127244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A comprehensive review of carbon capture science and technologies**

Wu, Chunfei; Huang, Qi; Xu, Zhicheng; Tariq Sipra, Ayesha; Gao, Ningbo; Porto de Souza Vandenberghe, Luciana; Vieira, Sabrina; Soccol, Carlos Ricardo; Zhao, Ruikai; Deng, Shuai; **Konist, Alar; Baqain, Mais Hanna Suleiman** Carbon capture science & technology 2024 / art. 100178, 180 p. : ill <https://doi.org/10.1016/j.ccst.2023.100178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Doktoritöö pakub lahenduse põlevkivitööstuse süsinikuheitmete vähendamiseks**

**Baqain, Mais Hanna Suleiman** novaator.err.ee 2024 [Doktoritöö pakub lahenduse põlevkivitööstuse süsinikuheitmete vähendamiseks](https://digikogu.taltech.ee/et/item/0fdc7a64-d5bc-4310-aec2-88bfd867bce9)  
<https://digikogu.taltech.ee/et/item/0fdc7a64-d5bc-4310-aec2-88bfd867bce9>

### **The emissions of NOx, SO2, CO and decomposition of carbonates during oxyfuel combustion of low heating value semicoke in CFB pilot facility**

**Nešumajev, Dmitri; Baqain, Mais Hanna Suleiman; Konist, Alar** Fuel 2024 / art. 132563, 10 p. : ill

<https://doi.org/10.1016/j.fuel.2024.132563> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Enhancing energy sustainability : integrating concentrated solar power in Jordan's oil shale extraction**

Al-Addous, Mohammad; **Baqain, Mais Hanna Suleiman**; Bdour, Mathhar; Lenz, Volker International journal of low-carbon technologies 2025 / 13, p. 453-465 <https://doi.org/10.1093/ijlct/ctae297>

### **A new research project aims to make industry more waste-free and up-grade the materials through chemical looping gasification (CLG)**

**Tamm, Kadriann; Baqain, Mais Hanna Suleiman** researchinestonia.eu 2024 <https://researchinestonia.eu/2024/12/12/industry-waste-free-through-clg/>

### **NOx and N2O emissions from Ca-rich fuel conversion in oxyfuel circulating fluidized bed combustion**

**Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar** Thermal science and engineering progress 2023 / art. 101938

<https://doi.org/10.1016/j.tsep.2023.101938> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Oil shale oxyfuel CFB combustion = Oxyfuel tehnoloogia rakendamine põlevkivi CFB põletamisele**

**Baqain, Mais Hanna Suleiman** 2024 [https://www.ester.ee/record=b5685168\\*est](https://www.ester.ee/record=b5685168*est) <https://digikogu.taltech.ee/et/item/0fdc7a64-d5bc-4310-aec2-88bfd867bce9> <https://doi.org/10.23658/taltech.26/2024>

### **Oxyfuel conversion of Ca-rich fuel in a 60 kWth circulating fluidized bed**

**Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar** Proceedings of the 16th Greenhouse Gas Control Technologies Conference (GHGT-16) 23-24 Oct 2022 2022 / p. 1-10 <https://doi.org/10.2139/ssrn.4276982>

### **Remote energy lab - experience and improvements of European cooperation in remote labs**

Klüh, Daniel; **Baqain, Mais Hanna Suleiman; Lyons Ceron, Alejandro**; Novak, Ondrej; Bily, Tomas; **Konist, Alar**; Gaderer, Matthias SEFI 2022 : 50th Annual Conference of The European Society for Engineering Education : proceedings 2022 / p. 2012-2017 <http://www.sefi.be/wp-content/uploads/2022/12/ebook-sefi-2022-1.pdf>

### **SO2 emissions from oil shale oxyfuel combustion in a 60 kWth circulating fluidized bed**

**Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar** Energies 2024 / art. 4567 <https://doi.org/10.3390/en17184567>  
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### **Tehnikaülikooli doktorant töötas välja mooduse, kuidas Eesti saaks põlevkivitööstust oluliselt rohelisemaks muuta**

**Baqain, Mais Hanna Suleiman** digi.geenius.ee 2024 [Tehnikaülikooli doktorant töötas välja mooduse, kuidas Eesti saaks põlevkivitööstust oluliselt rohelisemaks muuta](https://digikogu.taltech.ee/et/item/0fdc7a64-d5bc-4310-aec2-88bfd867bce9)  
<https://digikogu.taltech.ee/et/item/0fdc7a64-d5bc-4310-aec2-88bfd867bce9>

### **TG-MS analysis and kinetic study of co-combustion of ca-rich oil shale with biomass in air and oxy-like conditions**

**Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar** Carbon capture science & technology 2024 / art. 100162  
<https://doi.org/10.1016/j.ccst.2023.100162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)