



## Eng. Ramona (m. Larion) Ciobanu

PhD Student

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PhD thesis topic: *Advanced wastewater treatment through sorption processes on inorganic-polymer composite materials*, Coordinator Prof. Dr. Carmen Teodosiu and Dr. Marcela Mihai

### Research topics

Synthesis and characterization of novel inorganic-polymer composite materials. Investigation of the potential environmental applications of inorganic-polymer composite materials as sorbents in wastewater treatment processes. Characterization methods employed in our studies are: scanning electron microscopy (SEM), nuclear magnetic resonance spectroscopy (NMR), UV-measurements, thermogravimetric analysis (TGA), X Ray Diffraction (XRD).

### Scientific research

Author of 2 articles and co-author of 4 ISI articles (in Q1 zone and in Q2 zone), 3 poster, 7 oral communications.

### Visibility

[https://www.brainmap.ro/public-profile-82227555;](https://www.brainmap.ro/public-profile-82227555)

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[https://www.researchgate.net/profile/Ramona-Ciobanu;](https://www.researchgate.net/profile/Ramona-Ciobanu)

[https://scholar.google.com/citations?user=IT4V7VQAAAAJ&hl=ro&oi=ao;](https://scholar.google.com/citations?user=IT4V7VQAAAAJ&hl=ro&oi=ao)

### Relevant publications

1. **Ciobanu R.**, Teodosiu C.\*, Almeida C.M.V.B, Agostinho F., Giannetti B.F.\*, Sustainability Analysis of a Municipal Wastewater Treatment Plant through Emergy Evaluation, *Sustainability*, 14(11), 6461, **2022 (Q2, IF= 3.889, ISI Web of Science)**, <https://doi.org/10.3390/su14116461>
2. Bucatariu F., Teodosiu C\*, Morosanu I., Fighir D., **Ciobanu R.**, Petrila L-M, Mihai M.\*, An overview on composite sorbents based on polyelectrolytes used in advanced wastewater treatment, *Polymers*, 13, 3963, **2021, (Q1, IF=4.329, ISI Web of Science)**, <https://doi.org/10.3390/polym13223963>