

UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA  
Facultatea Ingineria Materialelor și a Mediului  
Departamentul Ingineria Mediului și Antreprenoriatul Dezvoltării Durabile

## LISTA DE LUCRĂRI

**dr.biol. Sebastian Radu Cristian PLUGARU**

### **TEZA DE DOCTORAT**

1. Studii și cercetări privind bioremedierea apelor poluate cu crom pe baza capacității de bioacumulare și biosorbție a microalgelor, titlul de doctor în domeniul Ingineria Mediului 2018, Universitatea Tehnică din Cluj-Napoca, coordonator științific prof.dr.ing. Tiberiu Rusu.

### **CĂRȚI/CAPITOLE DIN CĂRȚI PUBLICATE**

1. Fodorpataki, L., **Plugaru, S.R.C.**, Molnar, K., Marossy, P., Tompa, B., Barna, S. (2017): Use of microalgal cultures for bioremediation of freshwater environments polluted with chromium, nickel and cadmium, In: M. Kuddus (ed.): *Bioremediation: Advances in Research and Applications*, Nova Science Publishers, ISBN 978-1-53613-555-8 (eBook) New York, pp. 71-113.

### **LUCRĂRI DE SEMINARII FORMAT ELECTRONIC**

1. Disciplina Ecologie (7 aplicații format electronic).

### **ARTICOLE PUBLICATE ÎN REVISTE COTATE/INDEXATE ISI**

1. **Sebastian Radu Cristian Plugaru**, Laszlo Fodorpataki, Mihaela Orban, Anca Sarb, Bernat Tompa, Balazs Kovacs, *Comparative study on growth and photosynthetic pigment dynamics of two microalgae under the influence of water pollution with the herbicide glufosinate*, Studia UBB Chemia, LXII, 3, 2017, pp. 239-250, DOI:10.24193/subbchem.2017.3.20, FI 0.244, ISSN-L: 1224-7154, ISSN 2065-9520 online edition.
2. **Sebastian Radu Cristian Plugaru**, Tudor Rusu, Katalin Molnar, Laszlo Fodorpataki, *Chromium removal from polluted water and its influence on biochemical and physiological parameters in algal cells used for phytoremediation*, Studia UBB Chemia, LXII, 3, 2017, pp. 225-238, DOI:10.24193/subbchem.2017.3.19, FI 0.244, ISSN-L: 1224-7154, ISSN 2065-9520 online edition.

## ARTICOLE PUBLICATE ÎN REVISTE COTATE / INDEXATE ISI PROCEEDINGS

1. **Sebastian Radu Cristian Plugaru**, Anca Sarb, Tibor Zsolt Horcsik, Tiberiu Rusu, *The effect of chromium on the growth of chlorella pyrenoidosa algal cultures*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. V, 2016, pp 6-9, Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064, Bucharest.
2. **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Tiberiu Rusu, *The assessment of the eco-toxicity in the waters of somesul mic river by using scenedesmus opoliensis algae cultures*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. IV, 2015, pp 95-98, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064, Bucharest
3. Mihaela Orban, **Sebastian Radu Cristian Plugaru**, Tiberiu Rusu, Rahela Carpa, *Researches and studies regarding the microbial indicators of water pollution of Căstăilor Creek, Bistrita*, Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. VI, 2017, pp 39-44, Online ISSN 2393-5138, ISSN-L 2285-6064, Bucharest.

## ARTICOLE PUBLICATE ÎN REVISTE / PROCEEDINGS INDEXATE BDI

1. **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Anca Sarb, Tiberiu Rusu., *Chromium: toxicity and tolerance in plants. A Review*, Ecoterra - Journal of Environmental Research and Protection, Vol. 13, Issue 4, 2016, pp 13-18, Cluj Napoca, printed ISSN 1584-7071, online ISSN 2248-3128.
2. **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Tiberiu Rusu, *Monitoring surface water pollution using biological markers*, Ecoterra- Journal of Environmental Research and Protection, Vol. 12, Issue 1, 2015, pp 89-93, Cluj Napoca, printed ISSN 1584-7071, online ISSN 2248-3128.
3. Anca Sârb, Ştefan I. Crăciun, Ionuț A. Chiș, **Sebastian Radu Cristian Plugaru**, *The link between intelligent and sustainable buildings concepts and practical studies*, Buletinul Institutului Politehnic din Iași, Vol. 62(66), nr. 3, 2016, pp. 9-19, ISSN: 1224-3884, e-ISSN: 2068-4762.
4. Anca Sârb, Stelian Brad, Ovidiu Stan, **Sebastian Radu Cristian Plugaru**, *Management innovation in designing buildings: from sustainable and intelligent buildings to inclusive*

*buildings. A Survey*, Acta Technica Napocensis: Civil Engineering & Architecture, Vol. 58, No. 1, 2015, pp 24-41, ISSN 1221-5848.

**Citare**

Rui Cardoso, Jorge Pinto, *Tabique walls composite earth based material characterization in the alto douro wine region, Portugal*, Construcții, vol 16(2), pp 3-11,2015.[http://www.constructii.incd.ro/Archive/2015/2/Constructii\\_2015\\_Vol.16\\_No.2\\_ID2015160201\\_Cardoso.pdf](http://www.constructii.incd.ro/Archive/2015/2/Constructii_2015_Vol.16_No.2_ID2015160201_Cardoso.pdf).

5. Rusu Andrei, **Plugaru Sebastian Radu Cristian**, Orban Mihaela, Rusu Tiberiu, The monitoring of the heavy metals concentration evolution in the babadag lakes aquatic ecosystem, *Environmental Dynamics under the Impact of Economic Trends – Realities and Perspectives* Vol. I, 2014, ISSN 2359 – 9081, ISSN-L 2359 – 9081, pp.178-186, Sfântu Gheorghe.

## LUCRĂRI ȘTIINȚIFICE COMUNICATE

1. **Sebastian Radu Cristian Plugaru**, Viorel Dan, Timea Gabor, Xenia Paula Mentiș, *The use of geothermal water in the cultivation of some algae species: A Review*, 12<sup>th</sup> International Conference Environmental Legislation, Safety Engineering and Disaster Management ELSEDIMA, May 17<sup>th</sup> – 18<sup>th</sup> 2018, Cluj-Napoca, Romania.
2. Mihaela Orban, **Sebastian Radu Cristian Plugaru**, Tiberiu Rusu, Rahela Carpa, *Researches and studies regarding the microbial indicators of water pollution of Căstăilor Creek, Bistrita*, The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture", June 8<sup>th</sup> – 10<sup>th</sup>, 2017, Bucharest, Romania.
3. **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Anca Sarb, Tiberiu Rusu., *CHROMIUM: TOXICITY AND TOLERANCE IN PLANTS*, International Conference „Environmental Legislation, Safety Engineering and Disaster Management” ELSEDIMA 11<sup>th</sup> edition, May 26<sup>th</sup>-28<sup>th</sup> 2016, Cluj-Napoca, Romania.
4. **Sebastian Plugaru**, Anca Sarb, Tibor Zsolt Horcsik, Tiberiu Rusu, *The effect of chromium on the growth of Chlorella Pyrenoidosa algal cultures*, The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture" June 9<sup>th</sup> – 11<sup>th</sup>, 2016, Bucharest, Romania.
5. **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Tiberiu Rusu, *The assessment of the eco-toxicity in the waters of Somesul Mic river by using scenedesmus opoliensis algae*

*cultures*, The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture", June 4<sup>th</sup> – 6<sup>th</sup>, 2015, Bucharest, Romania.

6. **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Tiberiu Rusu, *Monitoring surface water pollution using biological markers*, International Conference „Environmental Legislation, Safety Engineering and Disaster Management” ELSEDIMA 10<sup>th</sup> edition, September 18<sup>th</sup>-19<sup>th</sup> 2015, Cluj-Napoca, Romania.
7. **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Tiberiu Rusu, *Tehnologii de obținere a combustibililor din alge verzi*, Conferința Antreprenoriat, Mediu de afaceri și Dezvoltare Durabilă, AMDD 19 – 20 noiembrie 2015, Cluj-Napoca, Romania.
8. Andrei Rusu, **Sebastian Radu Cristian Plugaru**, Mihaela Orban, Tiberiu Rusu, *The monitoring of the heavy metals concentration evolution in the Babadag lakes aquatic ecosystem*, International Conference Natura-Econ, March 7<sup>th</sup>, 2014, Sfantu Gheorghe, Romania.

#### ARTICOLE ACCEPTATE SPRE PUBLICARE ÎN REVISTE COTATE ISI/ ISI PROCEEDINGS

1. Mihaela Orban, Tiberiu Rusu, **Sebastian Plugaru**, Rahela Carpa, Ioana Sur, Valer Micle, *Researches regarding heavy metal contamination and their effect on microbial communities in the Someșul Mic river*. (trimis spre publicare STUDIA CHEMIA UBB)
2. **Sebastian Radu Cristian Plugaru**, Viorel Dan, Xenia Paula Mentiu, *Use of green algae to reduce heavy metals from industrially polluted waters*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Bucharest (acceptat pentru publicare).

#### ARTICOL ACCEPTAT SPRE PUBLICARE ÎN REVISTA INDEXATA BDI

1. **Sebastian Cristian Radu Plugaru**, Viorel Dan, Timea Gabor, Xenia Paula Mentiu, *The use of geothermal water in the cultivation of some algae species: A Review*, ECOTERRA - Journal of Environmental Research and Protection (acceptat pentru publicare).

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Semnătura