

Listă publicații

Articole:

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1. Morin-Crini N., Lichtfouse E., Fourmentin M., Ribeiro A.R.L., Noutsopoulos C., Mapelli F., Fenyvesi E., Gurgel M., Vieira A., Picos-Corrales L. A., Moreno-Piraján J.C., Giraldo L., Sohajda T., Mahmudul M., Soltan H., Torri G., Magureanu M., **Bradu C.**, Crini G, *Removal of emerging contaminants from wastewater using advanced treatments. A review*, Environmental Chemistry Letters, Published on line 12.01.2022, <https://doi.org/10.1007/s10311-021-01379-5> (IF: 9.027; AIS: 0.966).
2. Mongioví C., Crini G., Gabrion X., Placet V, Blondeau-Patissier V., Krystianiak A, Durand S., Beaugrand J, Dorlando A, Rivard C., Gautier L., Ribeiro A.R.L., Lacalamita D, Martel B., Staelens J-N., Ivanovska A., Kostić M., Heintz O., **Bradu C.**, Raschetti M., Morin-Crini N. *Revealing the adsorption mechanism of copper on hemp-based materials through EDX, nano-CT, XPS, FTIR, Raman, and XANES characterization techniques*, Chemical Engineering Journal Advances 10 (2022) 100202 (IF:-;AIS: -).
3. Mongioví C., Lacalamita D, Morin-Crini N., Gabrion X., Placet V, Ribeiro A.R.L., Ivanovska A., Kostić M., **Bradu C.**, Staelens J-N., Martel B., Raschetti M., Crini G. *Use of chènevotte, a valuable co-product of industrial hemp fiber, as adsorbent for copper ions: Kinetic studies and modelling*, Arabian Journal of Chemistry 15 (2022) 103742 (IF: 5.165; AIS: 0.676).
4. Crini G., Bradu C., Fourmentin M., Cosentino C., Ribeiro A.R.L., Morin-Crini N. *Sorption of 4-n-nonylphenol, 4-n-octylphenol, and 4-tert-octylphenol on cyclodextrin polymers*, Environmental Science and Pollution Research 29 (2022)171–181(IF: 4.223; AIS: 0.603).
5. Zavoianu R., Cruceanu A., Pavel O.D., **Bradu C.**, Florea M., Bîrjega M., *Green Epoxidation of Olefins with ZnxAI/MgxAl-LDH Compounds: Influence of the Chemical Composition*, Catalysts 12 (2022) 145. <https://doi.org/10.3390/catal12020145> (IF: 4.146; AIS: 0.659).
6. Magureanu M., **Bradu C.** *Catalysts: Special issue on plasma-catalysis for environmental and energy-related applications*, Catalysts 11 (2021) 1439 (IF: 4.146; AIS: 0.659).
7. Magureanu M., Bilea F., **Bradu C.**, Hong, D. *A review on non-thermal plasma treatment of water contaminated with antibiotics*, Journal of Hazardous Materials 417 (2021) 125481 (IF: 10.588; AIS: 2.375).
8. Mongioví C., Lacalamita D., Morin-Crini N., Gabrion X., Ivanovska A., Sala F., Placet V. , Rizzi V., Gubitosa J., Mesto E, Lado Ribeiro A.R., Fini P., De Vietro N., Schingaro E., Kostić M., Cosentino C., Cosma P., **Bradu C.**, Chanet, G., Crini, G. *Use of chènevotte, a valuable co-product of industrial hemp fiber, as adsorbent for pollutant removal. Part i: Chemical, microscopic, spectroscopic and thermogravimetric characterization of raw and modified samples*, Molecules 26 (2021) 4574 (IF: 4.411; AIS: 0.694).
9. Mongioví, C., Morin-Crini, N., Lacalamita, D., **Bradu C.**, Raschetti M., Placet V., Lado Ribeiro A.R., Ivanovska A., Kostić, M., Crini, G., *Biosorbents from plant fibers of hemp and flax for metal removal: Comparison of their biosorption properties*, Molecules 26 (2021) 4199 (IF: 4.411; AIS: 0.694).
10. Crini, G., **Bradu, C.**, Cosentino C., Staelens J.N., Martel B., Fourmentin, M., Loiacono S., Chanet G., Torri G., Morin-Crini N., *Simultaneous Removal of Inorganic and Organic Pollutants from Polycontaminated Wastewaters on Modified Hemp-Based Felts*, Revista de Chimie, 72 (2021) 25-43 (IF: 1.755; AIS: 0.140).
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14. **Bradu C***, Căpăț C., Papa F., Frunza L., Olaru E.A., Crini G., Morin-Crini N., Euvrard E., Balint I., Zgura I., Munteanu C. *Pd-Cu catalysts supported on anion exchange resin for the simultaneous catalytic reduction of nitrate ions and reductive dehalogenation of organochlorinated pollutants from water*, Applied Catalysis A: General 570 (2019) 120–129 (IF: 4.521; AIS: 0.8).
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19. Loiacono S., Morin-Crini N., Martel B., Chanet G., **Bradu C.**, Torri G., Crini G. *Zinc, copper, and manganese complexation by hemp: Chemical abatement and ecotoxicological impact / [Complexation du zinc, du cuivre et du manganèse par du chanvre : Efficacité chimique et impact écotoxicologique]*, Environnement, Risques et Santé 17 (2018) 240-252 (IF: 0.1).
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25. Papa F., Balint I., Negri C., Olaru E. A., Zgura I., **Bradu C***. *Supported Pd–Cu Nanoparticles for Water Phase Reduction of Nitrates. Influence of the Support and of the pH Conditions*, Industrial & Engineering Chemistry Research 53 (2014) 19094–19103 (IF: 2.235; AIS: 0.618).
26. Charles J., Crini G., Morin-Crini N., Badot P.-M., Trunfio G., Sancey B., de Carvalho M., **Bradu C.**, Avramescu S., Winterton P., Gavaille S., Torri G. *Advanced oxidation (UV-ozone)*

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10. Ion R.M., **Bradu C.**, Udrea I. *Degradarea fotocatalitică a poluanților fenolici din ape reziduale*, Simpozionul “Mediul și Industria”, Bucureștii, România, septembrie 1997, p 134-143.
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3. **Bradu C.**, Olaru E.A., Magureanu M et Crini G. *Procédés d'oxydation avancée pour le traitement des eaux in Eaux industrielles contaminées - Réglementation, paramètres chimiques et biologiques & procédés d'épuration innovants-* (Collection : Pratiques & techniques, Série : Environnement et Développement durable) coord. Nadia Morin-Crini – Grégorio Crini, *Presses universitaires de Franche-Comté*, 2017, (ISBN : 978-2-84867-589-3) p. 417-445.
4. Morin-Crini N., Loiacono S., Placet V., Torri G., **Bradu C.**, Kostić M., Cosentino C., Chanet G., Martel B., Lichtfouse E., Crini G. *Hemp-Based Materials for Metal Removal in Green Adsorbents for Pollutant Removal Innovative materials*, Series: *Environmental*

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5. Morin-Crini N., Lichtfouse E., Fourmentin M., Lado Ribeiro A.R., Noutsopoulos C., Mapelli F., Fenyvesi E., Gurgel M., Vieira A., Picos-Corrales L. A., Moreno-Piraján J.C., Giraldo L., Sohajda T., Mahmudul M., Soltan H., Torri G., Magureanu M., **Bradu C.**, Crini G. *Remediation of Emerging Contaminants*, in: *Emerging Contaminants Vol. 2.*, Series: *Environmental Chemistry for a Sustainable World*, vol 66. Eds: Morin-Crini N., Lichtfouse E., Crini G. Springer, 2021. (ISBN: 978-3-030-69089-2 / eBook ISBN: 978-3-030-69090-8).
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Plasma-Catalysis for Environmental and Energy-Related Applications; Catalysts 11, Editors: Măgurenu M., **Bradu C.**, MDPI, ISSN 2073-4344

Brevete:

1. Catalizatori si procedee pentru tratarea apelor impurificate cu diverși poluanți organici, Autori: Udrea Ion, Căpăț Constantin, **Bradu Corina**, Chiru Epsică, Sandu Ciprian, Sandu Marin, Racovițeanu Gabriel, Buleandă Marian-Mihai, Avramescu Sorin-Marius – Brevet RO nr. 119694 B1, Int.Cl. B01J 23/00; C02 F 9/04; 27.02.2004.
2. Procedeu de obținere a granulelor de polipirrol conținând enzime imobilizate covalent, Autori: Sârbu Andrei, Sandu Teodor, Săndulescu Robert,, Cristea Cecilia, Dima Ștefan Ovidiu, Udrea Ion, Bradu Corina, Dumitru Anca Aurelia, Vulpe Silviu, Iovu Horia, Sârbu Liliana, Bodoki Ede – Brevet RO nr. 128661 B1, Int.Cl. G01N 27/327; G01N 27/333; C12 Q 1/28; C12 Q 1/28; 26.02.2016.
3. Catalizator și procedeu pentru tratarea apelor impurificate cu azotați și compuși organici clorurați, Autori: **Bradu Corina**, Căpăț Constantin, Olaru Elena-Alina, Papa Florica, Balint Ioan, State Răzvan, Frunză Ligia, Zgură Irina - Brevet RO nr. 132035 B1, Int.Cl. B01J23/44, C02F 9/04; 29.11.2019.
4. Procedeu de tratare cu oxidanți-coagulanți generați din nămol roșu a apelor cu încărcare organică mare, Autori: Zăvoianu Rodica, Sârbu Liliana, Pavel Octavian Dumitru, Cruceanu Anca, **Bradu Corina**, Olaru Elena Alina, Sârbu Andrei, Sandu Teodor, Bacalum Fănica, Zaharia Ana-Maria, Mara Eleonora Luminița, Bîrjega Ruxandra, Cosașu Dan, Olaru Andreea Gabriela, Mărioara Cristina Maria – Brevet RO nr. 133166 B1, Int.Cl. C02F 1/52, C02F 1/72, C02F 101/30; 28.02.2022.