

Autorul tezei de abilitare: Conf. Dr. Chim. Cătălin Croitoru

Titlul tezei de abilitare: Materiale polimerice funcționale obținute cu lichide ionice cu rol de auxiliari și aditivi

Domeniul: Ingineria Materialelor

LISTA DE LUCRĂRI

LUCRĂRI RELEVANTE

1. Croitoru C, Patachia S, Cretu N, Boer A, Friedrich C. Influence of ionic liquids on the surface properties of poplar veneers. *Applied Surface Science* (2011), Vol.257, Nr.14, pag. 6220–25. WOS: 000288646900050 (jurnal Q1-primul în domeniul Materials Science, Coatings & Films)
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3. Croitoru C, Patachia S, Porzsolt A, Friedrich C. Effect of alkylimidazolium based ionic liquids on the structure of UV-irradiated cellulose. *Cellulose*. (2011), Vol.18, Nr.6, pag. 1469–79. WOS: 000298994200009 (jurnal Q1-primul în domeniul Materials Science, Paper & Wood)
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5. Croitoru C, Spirchez C, Cristea D, Lunguleasa A, Pop MA, Bedo T, Roata IC, Luca MA. Calcium carbonate and wood reinforced hybrid PVC composites. *Journal of Applied Polymer Science* (2018), Vol.135, Nr.22, Nr. articol. 46317. WOS: 000426508700017 (jurnal Q2 în domeniul Polymer Science)
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6. Croitoru C, Pop MA, Bedo T, Cosnita M, Roata IC, Hulka I. Physically crosslinked poly (vinyl alcohol)/kappa-carrageenan hydrogels: Structure and applications. *Polymers (Basel)* (2020), Vol. 12, Nr. 3. WOS: 000525952000059 (jurnal Q1 în domeniul Polymer Science)
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7. Croitoru C, Roata IC, Pascu A, Stanciu EM, Hulka I, Stoian G, Lupu N. Photocatalytic surfaces obtained through one-step thermal spraying of titanium. *Applied Surface Science* (2020), 504, 144173. WOS: 000502040600179 (jurnal Q1-primul în domeniul Materials Science, Coatings & Films)
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8. Croitoru C, Roata IC, Pascu A, Stanciu EM. Diffusion and controlled release in physically crosslinked poly (vinyl alcohol)/iota-carrageenan hydrogel blends. *Polymers (Basel)* (2020), Vol. 12, Nr. 7, 1544. WOS: 000558033000001 (jurnal Q1 în domeniul Polymer Science)
<https://www.mdpi.com/2073-4360/12/7/1544>
9. Croitoru C, Roata IC. Ionic liquids as antifungal agents for wood preservation. *Molecules*, Vol. 25, Nr. 18, 4289. WOS: 000580097000001 (jurnal Q2 în domeniul Biochemistry & Molecular Biology)
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10. Croitoru C, Varodi AM, Timar MC, Roata IC, Stanciu EM, Pascu A. Wood-plastic composites based on HDPE and ionic liquid additives. *Journal of Materials Science* (2018), Vol. 53, Nr. 6, pag. 4132–43. WOS: 000418294200017 (jurnal Q2 în domeniul Materials Science, Multidisciplinary).
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TEZA DE DOCTORAT

Titlu: *Studii de imprimare moleculară a polimerilor vinilici*

Domeniul: Ingineria Materialelor

Conducător științific: Prof. Dr. Chim. Silvia Pațachia

Suștinere publică 20.11.2009, Universitatea Transilvania din Brașov, Facultatea de Știința și Ingineria Materialelor.

BREVETE

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2. S. Patachia, C. Croitoru, A. Lunguleasa. RO126929 B1. *Compoziție de impregnare a lemnului pe bază de polimeri naturali, procedeu de obținere și metodă de aplicare*. <http://pub.osim.ro/publication-server/pdf-document?PN=RO126929%20RO%20126929&iDocId=8898&iepatch=.pdf>

CĂRȚI / CAPITOLE DE CĂRȚI

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2. S. Pațachia; C. Croitoru. *Biopolymers for wood preservation*. In: *Biopolymers and Biotech Admixtures for Eco-Efficient Construction Materials*, Editors: F.Pacheco-Torgal, V. Ivanov, N. Karak, H. Jonkers, 2016, Woodhead Publishing, Elsevier, Pag. 305–332.
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3. C. Croitoru; A. Pascu. *Știința și Ingineria Materialelor- Note de Curs*; Editura Universității Transilvania din Brașov, 2016, ISBN: 978-606-19-0777-9.
4. C. Croitoru. *Lucrări practice de știința și tehnologia materialelor polimerice și compozite*. Editura Lux Libris, 2015, Brașov, România, ISBN: 978-973-131-335-1
5. C. Croitoru; I.C. Roată. *Tehnologii avansate de procesare a materialelor celulozice*. Editura: Lux Libris, Brașov, 2017, ISBN: 978-973-131-396-2

ARTICOLE ÎN REVISTE

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2. Patachia S, **Croitoru C**, Friedrich C. Effect of UV exposure on the surface chemistry of wood veneers treated with ionic liquids. *Applied Surface Science* (2012) Vol. 258, Nr. 18, pag. 6723–6729. Autori: 3 (autor principal-corespondent) WOS: 000304004100002

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22. Roata IC, **Croitoru C**, Pascu A, Stanciu EM. Characterization of physically crosslinked ionic liquid-lignocellulose hydrogels. *BioResources*. (2018), Vol. 13, Nr. 3, pag. 6110-6121 .Autori: 4 (autor principal-corespondent) WOS: 000440506300095
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31. Luca MA, Tierean MH, Machedon Pisu T, Rodriguez J, **Croitoru C**. The influence of concentrated solar energy flux on the structure and properties of stainless steel brazed joints. Journal of Thermal Analysis and Calorimetry (2020), Vol.141, Nr. 4, pag. 1291-1304. Autori: 5 WOS: 000500853500007

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33. **Croitoru C**, Roata IC. Ionic liquids as antifungal agents for wood preservation. Molecules, Vol. 25, Nr. 18, 4289. Autori: 2 (autor principal) WOS: 000580097000001

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35. **Croitoru C**, Roata IC, Pascu A, Stanciu EM, Hulka I, Stoian G, Lupu N. Photocatalytic surfaces obtained through one-step thermal spraying of titanium. Applied Surface Science (2020), 504, 144173.

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ARTICOLE PUBLICATE IN VOLUME ALE CONFERINȚELOR INTERNAȚIONALE

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3. Patachia S, **Croitoru C**, Florea C, Dumitrescu L, Scarneciu I. Ammonia sensor based on poly (vinyl alcohol) cryogel. revista: Proceedings of the 19th international DAAM symposium: intelligent manufacturing & automation: focus on next generation of intelligent systems and solutions, 2008, pag. 1039-1040. Autori: 5 WOS: 000262860100519

4. Patachia S, **Croitoru C**, Scarneciu I. Ecological method for separation of inulin from phytoextracts using molecularly imprinted poly (vinyl alcohol) films. revista: Proceedings of the 19th international DAAM symposium: intelligent manufacturing & automation: focus on next generation of intelligent systems and solutions, 2008, pag. 1037-1038. Autori: 3 WOS: 000262860100518.

5. Spirchez C, Lunguleasa A, **Croitoru C**. The importance of the wood biomass in environment protection. AIP Conference Proceedings, 2008, Vol. 1918, Nr. 1, Nr. art. 020007. Autori: 3 WOS: 000426289700007.

6. **Croitoru C**, Roata IC, Pascu A, Stanciu E. Ionic Liquid Surface Treatment of Calcite for Improved Compatibility with Polyolefin Matrix. revista: IOP Conference Series-Materials Science and Engineering, 2017, Vol. 209, Nr. art. 012052. Autori: 4 WOS: 000423732100052.

7. **Croitoru C**, Pascu A, Roata IC, Stanciu EM. Obtaining and Characterization of Polyolefin-Filled Calcium Carbonate Composites Modified with Stearic Acid. IOP Conference Series-Materials Science and Engineering, 2017, Vol. 209, Nr. art. 012041. Autori: 4 WOS: 000423732100041.

8. Pascu A, Stanciu EM, **Croitoru C**, Roata IC, Tierean MH . Pulsed Laser Cladding of Ni Based Powder. IOP Conference Series-Materials Science and Engineering, 2017, Vol. 209, Nr. art. 012058. Autori: 5 WOS:000423732100058.

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10. Olah A, **Croitoru C**, Roata IC, Andreescu AB. Ignition behavior of insulative materials: A safety vision. *Materials Today: Proceedings*, 2019, Vol. 19, pag. 1003-1007. Autori: 3 WOS: 000496428200014.

ALTE LUCRĂRI / REALIZĂRI RELEVANTE

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04.03.2021

Conf. Dr. Chim. Cătălin Croitoru