UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAŞI
FACULTATEA DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI CRISTOFOR SIMIONESCU

FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale naţionale pentru conferirea atestatului de abilitare

Candidat: **Peptu Cătălina Anișoara /** Data naşterii: 09.09.1976

Funcţia actuală: Conferențiar, Data numirii în funcţia actuală: 2021

Instituţia: UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAŞI.

COMISIA DE INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALE – Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare – dezvoltare, conform ordin 6129/20.12.2016

Se definesc:
NTOP = număr total de articole ISI situate in top 25% (zona roșie) în calitate de autor principal. Situația revostelor in top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data inscrierii la concurs
FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)
NC = număr total de citări (din baza scopus) (se exclud autocitările candidatului)
NCO = număr contracte de cercetare – dezvoltare – inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare – dezvoltare – inovare cu terții în valoare minimă echivalentă cu 10.000 Euro

Articolele pentru calculul NTOP, FIC, NP, NC se vor lua in considerare numai daca la data publicarii revista era indexata ISI, iar la data inscrierii la concurs a candidatului articolele sunt vizibile in WoS sau daca se prezintă ca reprinturi (inclusiv cu paginația revistei)

	Profesor/abilitare Criterii minimale	**Criterii realizate**
NTOP	NTOP ≥ 4	9
NP	NP ≥ 20	20
FIC	FIC ≥ 30	98,41
NC	NC ≥ 120	1196
NCO	NCO ≥ 1	2

a) NTOP ≥ 4
NTOP=9

1.	Logigan, C.-L.; Peptu, C.; Stan, C.S.; Luta, G.; Tiron, C.E.; Pinteala, M.; Foryś, A.; Simionescu, B.; Ibanescu, C.; Tiron, A.; **Peptu, CA.** Carbon Dot-Enhanced Doxorubicin Liposomes: A Dual-Functional Nanoplatform for Cancer Therapy. Int. J. Mol. Sci. 2025, 26, 7535.	https://doi.org/10.3390/ijms26157535
2.	Logigan, C.-L.; Delaite, C.; Popa, M.; Băcăiță, E.S.; Tiron, C.E.; Peptu, C.; **Peptu, C.A.** Poly(ethylene glycol) Methyl Ether Acrylate-Grafted Chitosan-Based Micro- and Nanoparticles as a Drug Delivery System for Antibiotics. Polymers 2024, 16, 144.	https://doi.org/10.3390/polym16010144
3.	Logigan, C.-L.; Delaite, C.; Tiron, C.-E.; Peptu, C.; Popa, M.; **Peptu, C.A.** Chitosan Grafted Poly (Ethylene Glycol) Methyl Ether Acrylate Particulate Hydrogels for Drug Delivery Applications. Gels 2022, 8, 494.	https://doi.org/10.3390/gels8080494
4.	Băcăiță, E.S.; **Peptu, C.A.**; Savin, C.-L.; Luțcanu, M.; Agop, M. Manifest/Non-Manifest Drug Release Patterns from Polysaccharide Based Hydrogels—Case Study on Cyclodextrin—κ Carrageenan Crosslinked Hydrogels. Polymers 2021, 13, 4147.	https://doi.org/10.3390/polym13234147
5.	**Peptu, C.A.**; Băcăiță, E.S.; Savin, C.-L.; Luțcanu, M.; Agop, M. Hydrogels Based on Alginates and Carboxymethyl Cellulose with Modulated Drug Release—An Experimental and Theoretical Study. Polymers 2021, 13, 4461.	https://doi.org/10.3390/polym13244461
6.	Savin, C.-L.; Tiron, C.; Carasevici, E.; Stan, C.S.; Ibanescu, S.A.; Simionescu, B.C.; **Peptu, C.A.** Entrapment of N-Hydroxyphthalimide Carbon Dots in Different Topical Gel Formulations: New Composites with Anticancer Activity. Pharmaceutics 2019, 11, 303.	https://doi.org/10.3390/pharmaceutics11070303
7.	Savin, C.-L.; Popa, M.; Delaite, C.; Costuleanu, M.; Costin, D.; **Peptu, C.A.** Chitosan grafted-poly(ethylene glycol) methacrylate nanoparticles as carrier for controlled release of bevacizumab. Materials Science and Engineering: C 2019, 98, 843–860.	https://doi.org/10.1016/j.msec.2019.01.036
8.	Andrei, G.; **Peptu, C.A.**; Popa, M.; Desbrieres, J.; Peptu, C.; Gardikiotis, F.; Costuleanu, M.; Costin, D.; Dupin, J.C.; Uhart, A.; Tamba, B.I. Formulation and evaluation of cefuroxim loaded submicron particles for ophthalmic delivery. International Journal of Pharmaceutics 2015, 493, 16–29.	https://doi.org/10.1016/j.ijpharm.2015.07.053
9.	Jatariu, A.N.; Popa, M.; **Peptu, C.A.** Different particulate systems—bypass the biological barriers? Journal of Drug Targeting 2010, 18, 243–253.	https://doi.org/10.3109/10611860903398099

b) NP ≥ 20
NP=20

1. Logigan, C.-L.; Peptu, C.; Stan, C.S.; Luță, G.; Tiron, C.E.; Pinteală, M.; Foryś, A.; Simionescu, B.C.; Ibanescu, C.; Tiron, A.; **Peptu, C.A.** Carbon dot-enhanced doxorubicin liposomes: A dual-functional nanoplatform for cancer therapy. International Journal of Molecular Sciences 2025, 26, 7535. https://doi.org/10.3390/ijms26157535
2. Logigan, C.-L.; Delaite, C.; Popa, M.; Băcăiță, E.S.; Tiron, C.-E.; Peptu, C.; **Peptu, C.A.** Poly(ethylene glycol) methyl ether acrylate-grafted chitosan-based micro- and nanoparticles as a drug delivery system for antibiotics. Polymers 2024, 16, 144. https://doi.org/10.3390/polym16010144.
3. Logigan, C.-L.; Delaite, C.; Tiron, C.-E.; Peptu, C.; Popa, M.; **Peptu, C.A.** Chitosan grafted poly(ethylene glycol) methyl ether acrylate particulate hydrogels for drug delivery applications. Gels 2022, 8, 494. https://doi.org/10.3390/gels8080494.
4. **Peptu, C.A.**; Băcăiță, E.S.; Savin, C.-L.; Lupcanu, M.; Agop, M. Hydrogels based on alginates and carboxymethyl cellulose with modulated drug release—An experimental and theoretical study. Polymers 2021, 13, 4461. https://doi.org/10.3390/polym13244461.
5. Băcăiță, E.S.; **Peptu, C.A.**; Savin, C.-L.; Lupcanu, M.; Agop, M. Manifest/non-manifest drug release patterns from polysaccharide-based hydrogels—Case study on cyclodextrin–κ-carrageenan crosslinked hydrogels. Polymers 2021, 13, 4147. https://doi.org/10.3390/polym13234147.
6. Savin, C.-L.; Tiron, C.; Carasevici, E.; Stan, C.S.; Ibanescu, S.A.; Simionescu, B.C.; **Peptu, C.A.** Entrapment of N-hydroxyphthalimide carbon dots in different topical gel formulations: New composites with anticancer activity. Pharmaceutics 2019, 11, 303. https://doi.org/10.3390/pharmaceutics11070303.
7. Savin, C.-L.; Popa, M.; Delaite, C.; Costuleanu, M.; Costin, D.; **Peptu, C.A.** Chitosan grafted-poly(ethylene glycol) methacrylate nanoparticles as carrier for controlled release of bevacizumab. Materials Science and Engineering: C 2019, 98, 843–860. https://doi.org/10.1016/j.msec.2019.01.036.
8. Popa, M.; Ciobanu, B.C.; Ochiuz, L.; Desbrières, J.; Stan, C.S.; **Peptu, C.A.** Controlling the release kinetics of calcein loaded liposomes from chitosan/tannic acid and chitosan/poly(vinyl alcohol)/tannic acid hydrogels. Cellulose Chemistry and Technology 2018, 52, 353–370.
9. **Peptu, C.A.**; Popa, M.; Savin, C.; Popa, R.F.; Ochiuz, L. Modern drug delivery systems for targeting the posterior segment of the eye. Current Pharmaceutical Design 2015, 21, 6055–6069. https://doi.org/10.2174/1381612821666151027151847 .
10. Andrei, G.; **Peptu, C.A.**; Popa, M.; Desbrières, J.; Peptu, C.; Gardikiotis, F.; Costuleanu, M.; Costin, D.; Dupin, J.C.; Uhart, A.; Tamba, B.I. Formulation and evaluation of cefuroxim loaded submicron particles for ophthalmic delivery. International Journal of Pharmaceutics 2015, 493, 16–29. https://doi.org/10.1016/j.ijpharm.2015.07.053.
11. **Peptu, C.A**.; Ochiuz, L.; Alupei, L.; Peptu, C.; Popa, M. Carbohydrate based nanoparticles for drug delivery across biological barriers. Journal of Biomedical Nanotechnology 2014, 10, 2107–2148. https://doi.org/10.1166/jbn.2014.1950 .
12. Ciobanu, B.C.; Cadinoiu, A.N.; Popa, M.; Desbrières, J.; **Peptu, C.A.** Modulated release from liposomes entrapped in chitosan/gelatin hydrogels. Materials Science and Engineering: C 2014, 43, 383–391. https://doi.org/10.1016/j.msec.2014.07.036.

13. Ciobanu, B.C.; Cadinoiu, A.C.; Popa, M.; Desbrières, J.; **Peptu, C.A.** Chitosan/poly(vinyl alcohol) hydrogels for entrapment of drug loaded liposomes. Cellulose Chemistry and Technology 2014, 48, 485–494 .
14. Rață, D.M.; Popa, M.; Chailan, J.-F.; Zamfir, C.L.; **Peptu, C.A.** Biomaterial properties evaluation of poly(vinyl acetate-alt-maleic anhydride)/chitosan nanocapsules. Journal of Nanoparticle Research 2014, 16, 2569. https://doi.org/10.1007/s11051-014-2569-x .
15. Iurea, M.; Popa, M.; Chailan, J.-F.; Tamba, B.I.; Tudorancea, I.; **Peptu, C.A.** Ibuprofen-loaded chitosan/poly(maleic anhydride-alt-vinyl acetate) controlled release nanocapsules for pain treatment. Journal of Bioactive and Compatible Polymers 2013, 28, 368–384. https://doi.org/10.1177/0883911513490336
16. Jătariu, A.N.; Popa, M.; Curteanu, S.; **Peptu, C.A.** Covalent and ionic co-crosslinking: An original way to prepare chitosan-gelatin hydrogels for biomedical applications. Journal of Biomedical Materials Research Part A 2011, 98A, 342–350. https://doi.org/10.1002/jbm.a.33122.
17. **Peptu, C. A.**; Popa, M.; Perichaud, A. Hydrogel microspheres based on environmentally friendly polymers with potential biomedical applications. Environmental Engineering and Management Journal 2011, 10, 717–727. https://doi.org/10.30638/eemj.2011.096.
18. Jătariu, A.N.; Popa, M.; **Peptu, C.A.** Different particulate systems—bypass the biological barriers? Journal of Drug Targeting 2010, 18, 243–253. https://doi.org/10.3109/10611860903398099.
19. **Peptu, C.A.**; Popa, M.; Tătaru, G.; Perichaud, A.; Antimisiaris, S.G. Double crosslinked chitosan-gelatin particulate systems for ophthalmic applications. Journal of Bioactive and Compatible Polymers 2010, 25, 98–116. https://doi.org/10.1177/0883911509350262 .
20. **Peptu, C.A.**; Popa, M.; Antimisiaris, S.G. Release of liposome-encapsulated calcein from liposome-entrapping gelatin–carboxymethylcellulose films: A presentation of different possibilities. Journal of Nanoscience and Nanotechnology 2008, 8, 1–10. https://doi.org/10.1166/jnn.2008.169.

c) FIC ≥ 30
FIC = 98,41

In acest caz in calculul FIC se tine seama de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal si respectiv de factorul de impact împarțit la numarul de autori pentru revistele in care candidatul a publicat un articol in care nu este autor principal.

Brevetele nationale (Fl = 1) si internationale (Fl = 3) intrd in calculul FIC de la punctul c)

nr.	Article Title	Q	FI	FI CUMULAT	Autor principal
1.	Panainte, A.D.; **Peptu, C.A.**; Crețeanu, A.; Bibire, N.; Nacu, I.; Vereștiuc, L.; Popa, E.G.; Păduraru, L.; Tartau, L.M.; Dănilă, R.; Bibire T.; Yilmaz, CN. Crosslinking-Dependent Design of Hyaluronic Acid Matrices for Enhanced Bioadhesion and Cellular Response. Pharmaceutics 2026, 18, 631. https://doi.org/10.3390/pharmaceutics18050631	Q1	5,5	0,46	NU

2.	Nacu, I.; Vasilache, A.; **Peptu, C.A.**; Verestiuc, L.; Luca, A. Biocompatible Photocrosslinked Chitosan- and Gelatin-Based Hydrogels for Wound Healing Applications. Gels 2026, 12, 290. https://doi.org/10.3390/gels12040290	Q1	5,3	1,06	NU
3.	Logigan, C.-L.; Peptu, C.; Stan, C.S.; Luta, G.; Tiron, C.E.; Pinteala, M.; Forys, A.; Simionescu, B.; Ibanescu, C.; Tiron, A.; **Peptu, C.A.** Carbon Dot-Enhanced Doxorubicin Liposomes: A Dual-Functional Nanoplatform for Cancer Therapy. International Journal of Molecular Sciences 2025, 26, 7535. https://doi.org/10.3390/ijms26157535	Q1	4,9	4,90	DA
4.	Paduraru, L.; Panainte, A.-D.; **Peptu, C.A.**; Apostu, M.; Vieriu, M.; Bibire, T.; Sava, A.; Bibire, N. Smart Drug Delivery Systems Based on Cyclodextrins and Chitosan for Cancer Therapy. Pharmaceuticals 2025, 18, 564. https://doi.org/10.3390/ph18040564	Q1	4,8	0,69	NU
5.	Blaj, D.-A.; **Peptu, C.A.**; Balan-Porcarasu, M.; Peptu, C.; Tuchilus, C.G.; Ochiuz, L. Polymer-Free Electrospinning of β-Cyclodextrin-Oligolactide for Magnolol and Honokiol Pharmaceutical Formulations. Pharmaceutics 2025, 17, 130. https://doi.org/10.3390/pharmaceutics17010130	Q1	5,5	0,92	NU
6.	Luca, A.; Cojocaru, F.-D.; Pascal, M.S.; Vlad, T.; Nacu, I.; **Peptu, C.A.**; Butnaru, M.; Verestiuc, L. Decellularized Macroalgae as Complex Hydrophilic Structures for Skin Tissue Engineering and Drug Delivery. Gels 2024, 10, 704. https://doi.org/10.3390/gels10110704	Q1	5,3	0,66	NU
7.	Afloarea, O.-T.; Nacu, I.; Verestiuc, L.; Yilmaz, C.N.; Panainte, A.D.; **Peptu, C.A.**; Ostafe, I.-G.; Bibire, N. In Vitro and Ex Vivo Evaluation of Novel Methacrylated Chitosan-PNIPAAm-Hyaluronic Acid Hydrogels Loaded with Progesterone for Applications in Vaginal Delivery. Polymers 2024, 16, 2160. https://doi.org/10.3390/polym16152160	Q1	4,9	0,61	NU
8.	Blaj, D.-A.; **Peptu, C.A.**; Danu, M.; Harabagiu, V.; Peptu, C.; Bujor, A.; Ochiuz, L.; Tuchilus, C.G. Enrofloxacin Pharmaceutical Formulations through the Polymer-Free Electrospinning of β-Cyclodextrin-oligolactide Derivatives. Pharmaceutics 2024, 16, 903. https://doi.org/10.3390/pharmaceutics16070903	Q1	5,5	0,69	NU
9.	Bibire, T.; Danila, R.; Logigan, C.L.; **Peptu, C.A.**; Cozma, R.S.; Ghiciuc, C.M. Chitosan-gelatinmicro/nanoparticles as a controlled delivery of dexketoprofen trometamol for topical applications in wound care. Medical-Surgical Journal-Revista Medico-Chirurgicala 2024, 128, 411–421. https://doi.org/10.22551/MSJ.2024.02.21	Q4	0,2	0,03	NU
10.	Sufaru, R.F.; Moraru, M.C.; Gavril, L.C.; **Peptu, C.A.**; Chiran, D.A.; Crauciuc, D.V.; Vatavu, R.; Lucasievici, C.G.; Stan, R.T.; Sava, A. Targeting high dose nifedipine-induced hipertrophy in tissues with hydrocortisone-loaded nanocarriers. Romanian Journal of Oral Rehabilitation 2024, 16, 338–355. https://doi.org/10.6261/RJOR.2024.1.16.31	Q3	1,1	0,11	NU

11.	Leon, M.M.; Mastaleru, A.; Oancea, A.; Alexa-Stratulat, T.; **Peptu, C.A.**; Tamba, B.-I.; Harabagiu, V.; Grosu, C.; Alexa, A.I.; Cojocaru, E. Lidocaine-Liposomes-A Promising Frontier for Transdermal Pain Management. Journal of Clinical Medicine 2024, 13, 271. https://doi.org/10.3390/jcm13010271	Q1	2,9	0,29	NU
12.	Logigan, C.-L.; Delaite, C.; Popa, M.; Bacaita, E.S.; Tiron, C.E.; Peptu, C.; **Peptu, C.A.** Poly(ethylene glycol) Methyl Ether Acrylate-Grafted Chitosan-Based Micro- and Nanoparticles as a Drug Delivery System for Antibiotics. Polymers 2024, 16, 144. https://doi.org/10.3390/polym16010144	Q1	4,9	4,90	DA
13.	Olariu, M.A.; Filip, T.A.; **Peptu, C.A.**; Turcan, I. Screen-printed interdigitated microelectrodes employment in dielectrophoretic manipulation of MWCNTs. Microchimica Acta 2023, 190, 453. https://doi.org/10.1007/s00604-023-06023-3	Q1	5,3	1,33	NU
14.	Diaconu, A.-D.; Logigan, C.-L.; **Peptu, C.A.**; Ibanescu, C.; Harabagiu, V.; Peptu, C. Polyurethane Degradable Hydrogels Based on Cyclodextrin-Oligocaprolactone Derivatives. Gels 2023, 9, 755. https://doi.org/10.3390/gels9090755	Q1	5,3	0,88	NU
15.	Peptu, C.; Blaj, D.-A.; Balan-Porcarasu, M.; **Peptu, C.A.**; Harabagiu, V. Custom-modified oligolactide-cyclodextrin derivatives for electrospun drug formulations. European Polymer Journal 2023, 196, 112234. https://doi.org/10.1016/j.eurpolymj.2023.112234	Q1	6,3	1,05	NU
16.	Nacu, I.; Bercea, M.; Nita, L.E.; **Peptu, C.A.**; Butnaru, M.; Verestiuc, L. 3D bioprinted scaffolds based on functionalized gelatin for soft tissue engineering. Reactive & Functional Polymers 2023, 190, 105636. https://doi.org/10.1016/j.reactfunctpolym.2023.105636	Q1	5,1	0,85	NU
17.	Cobzariu, I.; **Peptu, C.A.**; Nita, L.E.; Luca, A.; Butnaru, M.; Verestiuc, L. 3D bioprinted scaffolds based on functionalised biopolymers for soft tissue engineering. Tissue Engineering Part a 2023, 29, 1103–1104.	Q3	2,9	0,48	NU
18.	Luca, A.; Nacu, I.; Tanasache, S.; **Peptu, C.A.**; Butnaru, M.; Verestiuc, L. New Methacrylated Biopolymer-Based Hydrogels as Localized Drug Delivery Systems in Skin Cancer Therapy. Gels 2023, 9, 371. https://doi.org/10.3390/gels9050371	Q1	5,3	0,88	NU
19.	Sufaru, R.F.; Stan, C.I.; **Peptu, C.A.**; Gavril, L.C.; Chiran, D.A.; Crauciuc, D.V.; Vatavu, R.; Sava, A. Tissue penetrability of nanoparticles loaded with rhodamine b fluorescent marker using a trimodal administration approach. Medical-Surgical Journal-Revista Medico-Chirurgicala 2023, 127, 583–596. https://doi.org/10.22551/MSJ.2023.04.11	Q4	0,2	0,03	NU

20.	Sufaru, R.F.; Stan, C.I.; **Peptu, C.A.**; Gavril, L.C.; Chiran, D.A.; Crauciuc, D.V.; Crauciuc, E.G.; Iancu, M.A.; Vatavu, R.; Lucasievici, C.G.; Dumitrescu, A.M.; Sava, A. Histological findings for the absorption of small and large liposomes - the basis of future drug delivery and contrast media systems. Romanian Journal of Morphology and Embryology 2023, 64, 535–542. https://doi.org/10.47162/RJME.64.4.10	Q4	1,5	0,13	NU
21.	Logigan, C.; Delaite, C.; Tiron, C.-E.; Peptu, C.; Popa, M.; **Peptu, C.A.** Chitosan Grafted Poly (Ethylene Glycol) Methyl Ether Acrylate Particulate Hydrogels for Drug Delivery Applications. Gels 2022, 8, 494. https://doi.org/10.3390/gels8080494	Q1	5,3	5,30	DA
22.	Peptu, C.; Diaconu, A.-D.; Danu, M.; **Peptu, C.A.**; Cristea, M.; Harabagiu, V. The Influence of the Hydroxyl Type on Crosslinking Process in Cyclodextrin Based Polyurethane Networks. Gels 2022, 8, 348. https://doi.org/10.3390/gels8060348	Q1	5,3	0,88	NU
23.	Bacaita, E.S.; **Peptu, C.A.**; Savin, C.-L.L.; Lutcanu, M.; Agop, M. Manifest/Non-Manifest Drug Release Patterns from Polysaccharide Based Hydrogels-Case Study on Cyclodextrin-κ Carrageenan Crosslinked Hydrogels. Polymers 2021, 13, 4147. https://doi.org/10.3390/polym13234147	Q1	4,9	4,90	DA
24.	**Peptu, C.A.**; a, E.S.; Savin (Logigan), C.-L.; Lutcanu, M.; Agop, M. Hydrogels Based on Alginates and Carboxymethyl Cellulose with Modulated Drug Release-An Experimental and Theoretical Study. Polymers 2021, 13, 4461. https://doi.org/10.3390/polym13244461	Q1	4,9	4,90	DA
25.	Manca, M.L.; Ferraro, M.; Pace, E.; Di Vincenzo, S.; Valenti, D.; Fernandez-Busquets, X.; **Peptu, C.A.**; Manconi, M. Loading of Beclomethasone in Liposomes and Hyalurosomes Improved with Mucin as Effective Approach to Counteract the Oxidative Stress Generated by Cigarette Smoke Extract. Nanomaterials 2021, 11, 850. https://doi.org/10.3390/nano11040850	Q2	4,3	0,54	NU
26.	Savin, C.-L.; Tiron, C.; Carasevici, E.; Stan, C.S.; Ibanescu, S.A.; Simionescu, B.C.; **Peptu, C.A.** Entrapment of N-Hydroxyphthalimide Carbon Dots in Different Topical Gel Formulations: New Composites with Anticancer Activity. Pharmaceutics 2019, 11, 303. https://doi.org/10.3390/pharmaceutics11070303	Q1	5,5	5,50	DA
27.	Savin, C.-L.; Popa, M.; Delaite, C.; Costuleanu, M.; Costin, D.; Peptu, C.A. Chitosan grafted-poly(ethylene glycol) methacrylate nanoparticles as carrier for controlled release of bevacizumab. Materials Science and Engineering: C-Materials for Biological Applications* 2019, 98, 843–860. https://doi.org/10.1016/j.msec.2019.01.036 *Jurnalul ”Materials Science and Engineering: C – Materials for Biological applications” a devenit din 2022 “Biomaterials Advances” al carui FI/ 2024 este 6 (print screen-uri anexate)	Q2	6	6	DA

28.	Luca, A.; Mihai, C.-T.; Stanciu, G.-D.; Bild, V.; Cojocaru, E.; Ancuceanu, R.; Harabagiu, V.; Peptu, C.; **Peptu, C.A.**; Leon-Constantin, M.-M.; Alexa-Stratulat, T. In-vivo safety and efficacy evaluation of a novel polymeric based lidocaine formulation for topical analgesia. Farmacia 2019, 67, 117–125. https://doi.org/10.31925/farmacia.2019.1.16	Q4	1,3	0,12	NU
29.	Savin, C.L.; Peptu, C.; Kronekova, Z.; Sedlacik, M.; Mrlik, M.; Sasinkova, V.; **Peptu, C.A.**; Popa, M.; Mosnacek, J. Polyglobalide-Based Porous Networks Containing Poly(ethylene glycol) Structures Prepared by Photoinitiated Thiol-Ene Coupling. Biomacromolecules 2018, 19, 3331–3342. https://doi.org/10.1021/acs.biomac.8b00634	Q1	5,4	0,60	NU
30.	Popa, M.; Ciobanu, B.C.; Ochiuz, L.; Desbrieres, J.; Stan, C.S.; **Peptu, C.A.** controlling the release kinetics of calcein loaded liposomes from chitosan/tannic acid and chitosan/poly(vinyl alcohol)/tannic acid hydrogels. Cellulose Chemistry and Technology 2018, 52, 353–370.	Q3	1,1	1,10	DA
31.	Ochiuz, L.; Ghiciuc, C.; Ignat, M.; Popa, M.; **Peptu, C.A.**; Vasile, A. Development of a Modified - release Drug Delivery System with Bexarotene Loaded in Clinoptilolite. Materiale Plastice 2017, 54, 581–585.	Q4	0,7	0,12	NU
32.	Alupei, L.; Lisa, G.; Butnariu, A.; Desbrieres, J.; Cadinoiu, A.N.; **Peptu, C.A.**; Calin, G.; Popa, M. New folic acid-chitosan derivative based nanoparticles - potential applications in cancer therapy. Cellulose Chemistry and Technology 2017, 51, 631–648.	Q3	1,1	0,14	NU
33.	Stefanache, A.; Ignat, M.; **Peptu, C.A.**; Diaconu, A.; Stoleriu, I.; Ochiuz, L. Development of a Prolonged-Release Drug Delivery System with Magnolol Loaded in Amino-Functionalized Mesoporous Silica. Applied Sciences-Basel 2017, 7, 237. https://doi.org/10.3390/app7030237	Q2	2,5	0,42	NU
34.	Morosanu, I.; Gilca, A.-F.; Paduraru, C.; Fighir (Arsene), D.; **Peptu, C.A.**; Teodosiu, C. Valorisation of rapeseed as biosorbent for the removal of textile dyes from aqueous effluents. Cellulose Chemistry and Technology 2017, 51, 175–184.	Q3	1,1	0,18	NU
35.	Iurciuc (Tincu), C.E.; **Peptu, C.**; Savin, A.; Atanase, L.-I.; Souidi, K.; Mackenzie, G.; Martin, P.; Riess, G.; Popa, M. Microencapsulation of Baker's Yeast in Gellan Gum Beads Used in Repeated Cycles of Glucose Fermentation. International Journal of Polymer Science 2017, 2017, 7610420. https://doi.org/10.1155/2017/7610420	Q2	4,4	0,49	NU
36.	Paun, V.A.; Popa, M.; Desbrieres, J.; **Peptu, C.A.**; Dragan, S.V.; Zegan, G.; Cioca, G. Liposome Loaded Chitosan Hydrogels, a Promising Way to Reduce the Burst Effect in Drug Release A comparativ analysis. Materiale Plastice 2016, 53, 590–593.	Q4	0,7	0,10	NU

37.	Vulpe, R.; Le Cerf, D.; Dulong, V.; Popa, M.; **Peptu, C.**; Verestiuc, L.; Picton, L. Rheological study of in-situ crosslinkable hydrogels based on hyaluronanic acid, collagen and sericin. Materials Science & Engineering C-Materials for Biological Applications* 2016, 69, 388–397. https://doi.org/10.1016/j.msec.2016.07.003 *Jurnalul "Materials Science and Engineering: C – Materials for Biological applications" a devenit din 2022 "Biomaterials Advances" al carui FI/ 2024 este 6 (print screen-uri anexate)	Q2	6	0,86	NU
38.	Alupei, L.; **Peptu, C.A.**; Lungan, A.-M.; Desbrieres, J.; Chiscan, O.; Radji, S.; Popa, M. New hybrid magnetic nanoparticles based on chitosan-maltose derivative for antitumor drug delivery. International Journal of Biological Macromolecules 2016, 92, 561–572. https://doi.org/10.1016/j.ijbiomac.2016.07.058	Q1	8,5	1,21	NU
39.	Gales, D.C.; Trinca, L.C.; Cazacu, A.; **Peptu, C.A.**; Jitareanu, G. Effects of a hydrogel on the cambic chernozem soil's hydrophysic indicators and plant morphophysiological parameters. Geoderma 2016, 267, 102–111. https://doi.org/10.1016/j.geoderma.2015.12.008	Q1	6,6	1,32	NU
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42.	Rata, D.M.; Chailan, J.-F.; **Peptu, C.A.**; Costuleanu, M.; Popa, M. Chitosan: poly(N-vinylpyrrolidone-alt-itaconic anhydride) nanocapsules-a promising alternative for the lung cancer treatment. Journal of Nanoparticle Research 2015, 17, 316. https://doi.org/10.1007/s11051-015-3115-1	Q2	2,6	0,52	NU
43.	Chelariu, R.; Mareci, D.; Bolat, G.; **Peptu, C.A.**; Cailean, D. Electrochemical characterization of surface modification for Ti6Al7Nb implants with hydroxyapatite-zirconia nanoparticles synthesis by ultrasound irradiations. Materials and Corrosion-Werkstoffe Und Korrosion 2015, 66, 573–578. https://doi.org/10.1002/maco.201407652	Q2	2	0,40	NU
44.	Cadinoiu, A.N.; **Peptu, C.A.**; Fache, B.; Chailan, J.-F.; Popa, M. Microparticulated systems based on chitosan and poly(vinyl alcohol) with potential ophthalmic applications. Journal of Microencapsulation 2015, 32, 381–389. https://doi.org/10.3109/02652048.2015.1035682	Q2	3,2	0,64	NU

45.	Moraru, A.D.; Costuleanu, M.; Costin, D.; **Peptu, C.**; Popa, M.; Chiselita, D. Intraocular biodistribution of intravitreal injected fluorescent dexamethasone-chitosan nanoparticles in rabbit eyes. Medical-Surgical Journal-Revista Medico-Chirurgicala 2015, 119, 484–490.	Q4	0,2	0,03	NU
46.	**Peptu, C.A.**; Popa, M.; Savin, C.; Popa, R.F.; Ochiuz, L. Modern Drug Delivery Systems for Targeting the Posterior Segment of the Eye. Current Pharmaceutical Design 2015, 21, 6055–6069. https://doi.org/10.2174/1381612821666151027151847	Q2	2,8	2,80	DA
47.	Peptu, C.; Rotaru, R.; Ignat, L.; Humelnicu, A.C.; Harabagiu, V.; **Peptu, C.A.**; Leon, M.-M.; Mitu, F.; Cojocaru, E.; Boca, A.; Tamba, B.I. Nanotechnology Approaches for Pain Therapy Through Transdermal Drug Delivery. Current Pharmaceutical Design 2015, 21, 6125–6139. https://doi.org/10.2174/1381612821666151027152752	Q2	2,8	0,25	NU
48.	Ciobanu, B.C.; Cadinoiu, A.N.; Popa, M.; Desbrieres, J.; **Peptu, C.A.** Modulated release from liposomes entrapped in chitosan/gelatin hydrogels. Materials Science & Engineering C-Materials for Biological Applications* 2014, 43, 383–391. https://doi.org/10.1016/j.msec.2014.07.036 *Jurnalul "Materials Science and Engineering: C – Materials for Biological applications" a devenit din 2022 "Biomaterials Advances" al carui FI/ 2024 este 6 (print screen-uri anexate)	Q2	6	6	DA
49.	**Peptu, C.A.**; Ochiuz, L.; Alupei, L.; Peptu, C.; Popa, M. Carbohydrate Based Nanoparticles for Drug Delivery Across Biological Barriers. Journal of Biomedical Nanotechnology 2014, 10, 2107–2148. https://doi.org/10.1166/jbn.2014.1950	Q3	2,9	2,90	DA
50.	Rata, D.M.; Popa, M.; Chailan, J.-F.; Zamfir, C.L.; **Peptu, C.A.** Biomaterial properties evaluation of poly(vinyl acetate-alt-maleic anhydride)/chitosan nanocapsules. Journal of Nanoparticle Research 2014, 16, 2569. https://doi.org/10.1007/s11051-014-2569-x	Q2	2,6	2,60	DA
51.	Ciobanu, B.C.; Cadinoiu, A.N.; Popa, M.; Desbrieres, J.; **Peptu, C.A.** chitosan/poly(vinyl alcohol) hydrogels for entrapment of drug loaded liposomes. Cellulose Chemistry and Technology 2014, 48, 485–494.	Q3	1,1	1,10	DA
52.	Moraru, A.D.; Costuleanu, M.; Sava, A.; Costin, D.; **Peptu, C.**; Popa, M.; Chiselita, D. Intraocular biodistribution of intravitreal injected chitosan/gelatin nanoparticles. Romanian Journal of Morphology and Embryology 2014, 55, 869–875.	Q4	1,5	0,21	NU
53.	Iurea (Rata), D.M.; Popa, M.; Chailan, J.-F.; Tamba, B.I.; Tudorancea, I.; **Peptu, C.A.** Ibuprofen-loaded chitosan/poly(maleic anhydride-alt-vinyl acetate) submicronic capsules for pain treatment. Journal of Bioactive and Compatible Polymers 2013, 28, 368–384. https://doi.org/10.1177/0883911513490336	Q3	2,2	2,2	DA

54.	Lurea (Rata), D.M.; **Peptu, C.A.**; Chailan, J.-F.; Carriere, P.; Popa, M. Sub-Micronic Capsules Based on Gelatin and Poly(maleic anhydride-alt-vinyl acetate) Obtained by Interfacial Condensation with Potential Biomedical Applications. Journal of Nanoscience and Nanotechnology 2013, 13, 3841–3850. https://doi.org/10.1166/jnn.2013.7224	Q4	1,134	0,23	NU
55.	Jatariu (Cadinoiu), A.N.; Danu, M.; **Peptu, C.A.**; Ioanid, G.; Ibanescu, C.; Popa, M. Ionically and Covalently Cross-Linked Hydrogels Based on Gelatin and Chitosan. Soft Materials 2013, 11, 45–54. https://doi.org/10.1080/1539445X.2011.580409	Q4	1,4	0,23	NU
56.	Balaita, L.; **Peptu, C.A.**; Postolache, P.; Lisa, G.; Popa, M. Gelatin-hydroxyethyl cellulose magnetic microparticles as drug carriers: preparation and characterization. Journal of Optoelectronics and Advanced Materials 2012, 14, 1023–1033.	Q4	0,5	0,10	NU
57.	Jatariu (Cadinoiu), A.N.; Holban, M.N.; **Peptu, C.A.**; Sava, A.; Costuleanu, M.; Popa, M. Double crosslinked interpenetrated network in nanoparticle form for drug targeting-Preparation, characterization and biodistribution studies. International Journal of Pharmaceutics 2012, 436, 66–74. https://doi.org/10.1016/j.ijpharm.2012.06.029	Q1	5.2	0,86	NU
58.	Magop, D.; Bacaita, S.; **Peptu, C.**; Popa, M.; Agop, M. Non-differentiability at Mesoscopic Scale in Drug Release Processes from Polymer Microparticles. Materiale Plastice 2012, 49, 101–105.	Q4	0,7	0,14	NU
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60.	Jatariu (Cadinoiu), A.N.; Popa, M.; Curteanu, S.; **Peptu, C.A.** Covalent and ionic co-cross-linking-An original way to prepare chitosan-gelatin hydrogels for biomedical applications. Journal of Biomedical Materials Research Part a 2011, 98A, 342–350. https://doi.org/10.1002/jbm.a.33122	Q2	3,9	3,90	DA
61.	**Peptu, C.A.**; Perichaud, A.; Popa, M. Hydrogel microspheres based on environmentally friendly polymers with potential biomedical applications. Environmental Engineering and Management Journal 2011, 10, 717–727. https://doi.org/10.30638/eemj.2011.096	Q4	0,9	0,90	DA
62.	Peptu, C.; Nicolescu, A.; **Peptu, C.A.**; Harabagiu, V.; Simionescu, B.C.; Kowalczuk, M. Mass Spectrometry Characterization of 3-OH Butyrated β-Cyclodextrin. Journal of Polymer Science Part a-Polymer Chemistry 2010, 48, 5581–5592. https://doi.org/10.1002/pola.24372	Q3	2,869	0,48	NU

63.	Durdureanu-Angheluta, A.; Pricop, L.; Stoica, I.; **Peptu, C.-A.**; Dascalu, A.; Marangoci, N.; Doroftei, F.; Chiriac, H.; Pinteala, M.; Simionescu, B.C. Synthesis and characterization of magnetite particles covered with α-trietoxysilil-polydimethylsiloxane. Journal of Magnetism and Magnetic Materials 2010, 322, 2956–2968. https://doi.org/10.1016/j.jmmm.2010.05.013	Q2	3	0,30	NU
64.	Jatariu, A.N.; Popa, M.; **Peptu, C.A.** Different particulate systems-bypass the biological barriers?. Journal of Drug Targeting 2010, 18, 243–253. https://doi.org/10.3109/10611860903398099	Q1	3,9	3,90	DA
65.	**Peptu, C.A.**; Buhus, G.; Popa, M.; Perichaud, A.; Costin, D. Double Cross-linked Chitosan-Gelatin Particulate Systems for Ophthalmic Applications. Journal of Bioactive and Compatible Polymers 2010, 25, 98–116. https://doi.org/10.1177/0883911509350262	Q3	2,2	2,2	DA
66.	Buhus, G.; Peptu, C.; Popa, M.; Desbrieres, J. Controlled release of water soluble antibiotics by carboxymethylcellulose- and gelatin-based hydrogels crosslinked with epichlorohydrin. Cellulose Chemistry and Technology 2009, 43, 141–151.	Q3	1,1	0,28	NU
67.	**Peptu, C.**; Popa, M.; Antimisiaris, S.G. Release of liposome-encapsulated calcein from liposome entrapping gelatin-carboxymethylcellulose films: A presentation of different possibilities. Journal of Nanoscience and Nanotechnology 2008, 8, 2249–2258. https://doi.org/10.1166/jnn.2008.169	Q4	1,134	1,13	DA
68.	Buhus, G.; Popa, M.; **Peptu, C.**; Desbrieres, J. Hydrogels based on carboxymethylcellulose and poly (vinyl alcohol) for controlled loading and release of chloramphenicol. Journal of Optoelectronics and Advanced Materials 2007, 9, 3445–3453.	Q4	0,5	0,13	NU
69.	***Brevetele nationale*** 1. B.I.Tamba, V.R.Ancuceanu, V. Harabagiu, C. Peptu, R.Rotaru, **C.A. Peptu**, C.S.Stan, M.M. Leon – Constantin, T. Alexa-Stratulat, Complex al lidocainei in derivat esterificat de beta-ciclodextrina, cu utilizare in terapia transdermala a durerii, RO132702A0/30.07.2018 2. C. S. Stan, P. Horlescu, B. C. Simionescu, **C. A. Peptu,** S. Ibănescu, Compuși Coordinativi ai Gd(III) si Mn(II) Utilizabili ca Precursori de Obținere a Nanostructurilor de Tip „Carbon Dots", A/00704/21.09.2018.			2	
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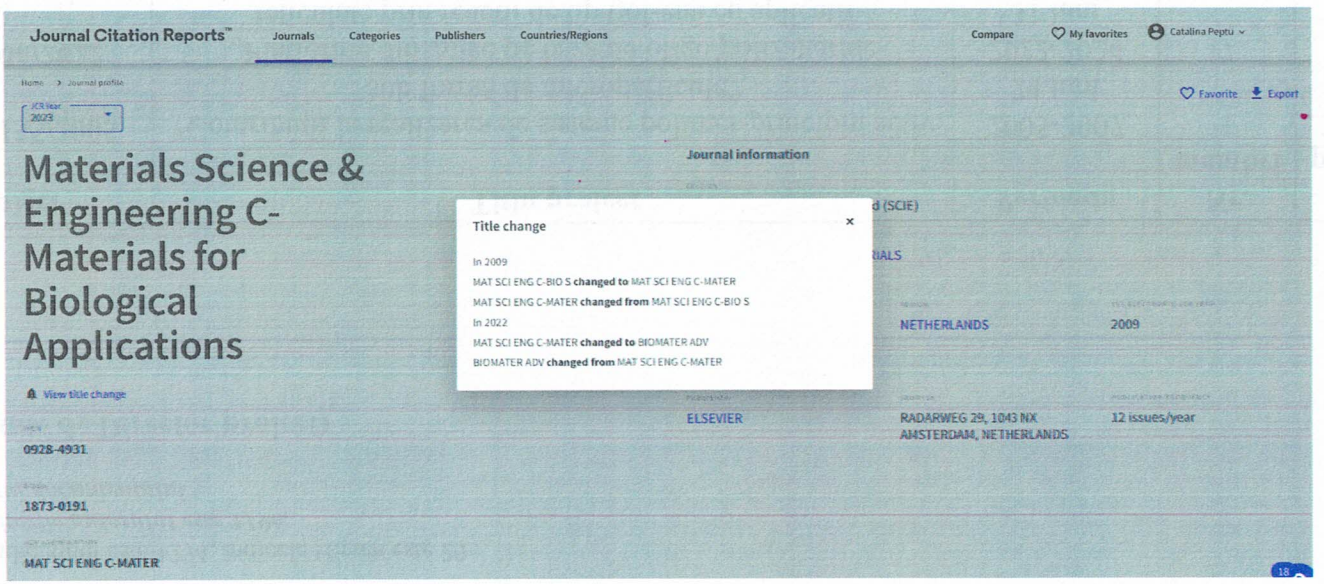
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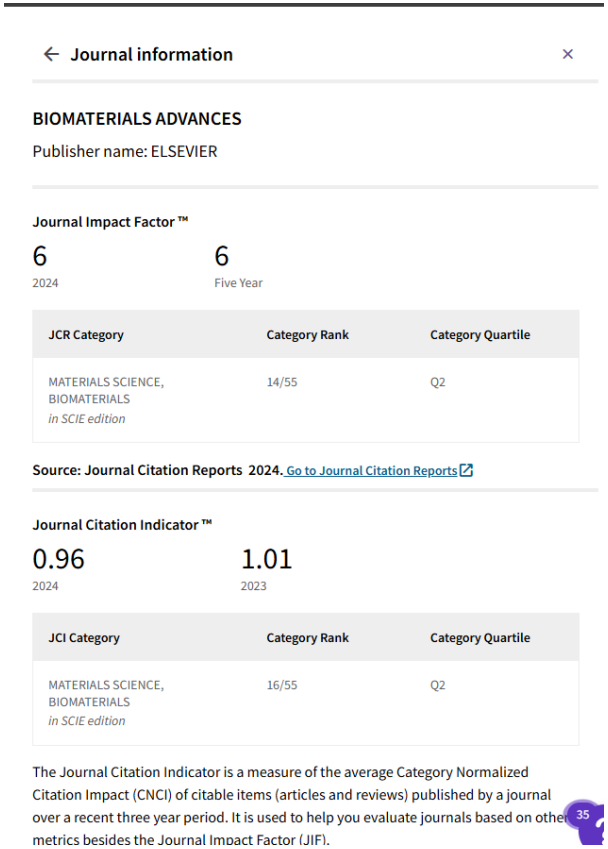

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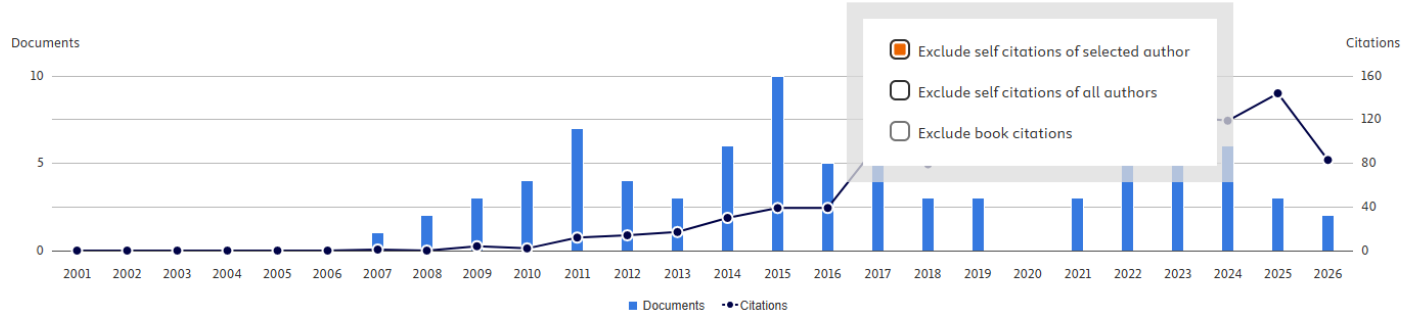

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