

LISTA DE LUCRĂRI - Conf. univ.habil.dr.ing. CASEN PANAITESCU

Lista celor 10 lucrări științifice reprezentative relevante pentru realizările profesionale proprii

1. Dao, Thi-Bich-Ngoc; Huynh, Thanh Liem; Tran, Ngoc Quyen; Nguyen, Van Kieu; Panaitescu, Casen; Pham, Trung T.; Hoai, Nguyen To; Dang, Nam Nguyen, *Self-forming barrier layer for carbon dioxide corrosion protection of mild steel in NaCl solution containing hydroxychavicol isolated from Piper betle L. leaf* CHEMICAL ENGINEERING JOURNAL, ISSN 1385-8947, Volume 491, 1 July 2024, 151717 (*articol zona roșie- jurnal cotat Q1*)
2. Van, Nhon Pham; Hoang, Ngoc Cam Tu; Manh, Tran Dinh; Dung, Le Thuy; Vu, Nguyen Si Hoai; Vattikuti, S. V. Prabhakar; **Panaitescu, Casen**; Pham, Trung T.; Dang, Nam Nguyen, *Enhancing corrosion resistance of mild steel in hydrochloric acid with Chiquita banana sap extract*, RSC ADVANCES, ISSN 2046-2069, 2024, VOL.14, 20, p.14263-14277 (*articol zona galbenă- jurnal cotat Q2*)
3. Nguyen, Nhung Thi; Manh, Tran Dinh; **Panaitescu, Casen**; Pham, Trung T.; Vu, Nguyen Si Hoai; Hoai, Nguyen To; Van, Nhon Pham; Dang, Nam Nguyen, *Self-formation of the protective film on mild steel surface in hydrochloric acid medium containing Papaya resin extract*, COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, ISSN 0927-7757, 2024, vol.690 (*articol zona galbenă- jurnal cotat Q2*)
4. Neacsă, Adrian; Eparu, Cristian Nicolae; **Panaitescu, Casen**; Stoica, Doru Bogdan; Ionete, Bogdan; Prundurel, Alina; Gal, Sorin, *Hydrogen-Natural Gas Mix-A Viable Perspective for Environment and Society*, ENERGIES, ISSN 1996-1073, 2023, vol.16, no. 15
5. Duong ChiTrung, Trung ThanhPham, Quoc BinhPhanMinh, **Panaitescu C.**, Ngoc QuyenTran, Ha TuanAnh, Lai XuanBach, NamNguyen Dang, *The use of Piper Betle leaf extract for forming a barrier layer on steel surface in hydrochloric acid solution*, Progress In Organic Coatings, volume 158, 2021, Article Number 106340, ISSN:0300-9440- (*articol zona roșie- jurnal cotat Q1*)
6. Le Van Sy; Phan Minh Quoc Binh; Lal, Bhajan; **Panaitescu C.** et al. The role of alloyed strontium in the microstructures and alkaline electrochemistry of Mg-5Al-4Sn alloys, RSC ADVANCES, Volume: 10 Issue: 57 Pages: 2020 34387-34395 -.- (*articol zona galbenă- jurnal cotat Q2*)
7. Le Thanh Thanh, Nguyen Si Hoai Vu, Phan Minh Quoc Binh, Vinh Ai Dao, Vu Thi Hanh Thu, Pham Van Hien, **Panaitescu C.**, Nguyen Dang Nam, Combined experimental and computational studies on corrosion inhibition of Houttuynia cordata leaf extract for steel in HCl medium, Journal of Molecular Liquids, Volume 315, 1 October 2020, 113787- (*articol zona galbenă- jurnal cotat Q2*)

8. ND Nam, C Panaitescu, MYJ Tan, M Forsyth, B Hinton, An interaction between praseodymium 4-hydroxycinnamate with AS1020 and X65 steel microstructures in carbon dioxide environment, Journal of The Electrochemical Society 165 (2), C50, 2019. (*articol zona roșie-jurnal cotat Q1*)
9. Ghetiu, I., Stan, I.G., **Panaitescu, C.**, Jinescu, C., Mares, A.M., Surfactants efficiency in oil reserves exploitation, Revista de Chimie, (Bucharest), 2017, 68, no.2, p. 273-278, ISSN 0034-7752
10. 120400 B1 Stratula C., Nan O., Oprea F., Gheorghită G. T., Jarnea I., **Panaitescu C.**, Procedeu de separare mecanică a apelor impurificate cu petrol și/sau produse petroliere, OSIM România, 2006(conform <http://online.osim.ro/cgi-bin/invsearch8>)

A) Teze de doctorat și abilitare

A1. Panaitescu Cașen, „*Studii privind separarea alchilenaminelor*”, Universitatea Petrol-Gaze din Ploiești.

A2. Panaitescu Cașen, „*Acceptarea la studii a studentilor internationali. Politici publice si strategii unversitare in ROMANIA și BULGARIA*”, Universitatea ”Babeș- Bolyai” din Cluj-Napoca.

A3. Panaitescu Cașen, „*Abordarea comprehensivă a protecției echipamentelor din industria petrolului și gazelor. identificarea unor noi soluții de tratare și valorificare a reziduurilor care au un conținut ridicat de țiței și produse petroliere*”, Universitatea Petrol-Gaze din Ploiești, https://www.upg-ploiesti.ro/sites/default/files/doctorat/CASEN%20P%20rezumat_romana_engleza_abilitare_panaitescu_casen_1.pdf

B) CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

B1. Panaitescu C, Bomboș D., Optimizarea procesului de epurare: soluții practice privind proiectarea stațiilor de epurare, Editura Universității Petrol-Gaze din Ploiești, 2017, ISBN 978-973-719-694-1

B2. Panaitescu C., Coroziunea în extracția țițeiului și gazelor: Abordare practică. Editura Universității Petrol-Gaze din Ploiești, 2021, ISBN 978-973-719-828-0, 102 pagini

B3. Panaitescu C., Waste Management in Ecological Landfill for Urban Waste From the City, LAP LAMBERT Academic Publishing, Language : English, 56 pagini, ISBN-10:6204978012, ISBN-13 : 978-6204978017

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B5. Stoicescu M., Panaitescu C, Curgerea lichidelor prin canale, Editura Universității Petrol-Gaze din Ploiești, 2022, ISBN 978-973-719-850-1, 364 pagini

B6. Panaitescu C, Bomboș D., Optimizarea procesului de epurare: Soluții practice privind proiectarea stațiilor de epurare. Ediția a II-a revizuita, Editura Universității Petrol-Gaze din Ploiești, 2021, ISBN 978-973-719-827-3,307 pagini

B7. Stoicescu M., Panaitescu C., Stoianovici D., Evaluarea zăcămintelor de ape subterane, Editura Universității Petrol-Gaze din Ploiești, 2021, ISBN ISBN 978-973-719-830-3-540 pagini (64 p.)

B8. Panaitescu C, Bomboș D., Bioresurse: îndrumar de laborator, Editura Universității Petrol-Gaze din Ploiești, 2017, ISBN 978-973-719-693-4

B9. Panaitescu C, Tratarea apelor industriale (îndrumar de laborator), Editura Salt, Ploiești, ISBN 473-976-760-7-9

B10. Panaitescu C, Acceptarea la studii a studenților internaționali. Politici publice și strategii universitare în România și Bulgaria, Publisher GlobeEdit (14 August 2024), Language : Romanian, ISBN-10 6206799727, ISBN-13: 978-6206799726, 248 pagini.

C) ARTICOLE / STUDII ÎN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

C1. Articole publicate în reviste cotate ISI

1. Anh, Nguyen Phan, Hoang-Ngoc, Cam-Tu, Panaitescu, Casen, Vattikuti, S. V. Prabhakar, Nguyen, Van Kiet, Nguyen, To Hoai, Dang, Nam Nguyen, *An Investigation on the Improved Corrosion Resistance of Die Casting Mg-5Al-8Sn-1Sr-xCa Alloys*, Journal of Materials Engineering and Performance, SEP.2024, 2024-10-03, ISSN 1059-9495, SPRINGER
2. Dao, Thi-Bich-Ngoc; Huynh, Thanh Liem; Tran, Ngoc Quyen; Nguyen, Van Kieu; Panaitescu, Casen; Pham, Trung T.; Hoai, Nguyen To; Dang, Nam Nguyen, *Self-forming barrier layer for carbon dioxide corrosion protection of mild steel in NaCl solution containing hydroxychavicol isolated from Piper betle L. leaf* CHEMICAL ENGINEERING JOURNAL, ISSN 1385-8947, [Volume 491](#), 1 July 2024, 151717
3. Van, Nhon Pham; Hoang, Ngoc Cam Tu; Manh, Tran Dinh; Dung, Le Thuy; Vu, Nguyen Si Hoai; Vattikuti, S. V. Prabhakar; **Panaitescu, Casen**; Pham, Trung T.; Dang, Nam Nguyen, *Enhancing corrosion resistance of mild steel in hydrochloric acid with Chiquita banana sap extract*, RSC ADVANCES, ISSN 2046-2069, 2024, VOL.14, 20, p.14263-14277, <http://doi.org/10.1039/d4ra00132j>
4. Nguyen, Nhung Thi; Manh, Tran Dinh; **Panaitescu, Casen**; Pham, Trung T.; Vu, Nguyen Si Hoai; Hoai, Nguyen To; Van, Nhon Pham; Dang, Nam Nguyen, *Self-formation of the protective film on mild steel surface in hydrochloric acid medium containing Papaya resin extract*, COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, ISSN 0927-7757, 2024, vol.690, <http://doi.org/10.1016/j.colsurfa.2024.133689>
5. Xuan Bach, Lai; Dao, Thi-Bich-Ngoc; Duong-Ngo, Kim-Long; Tran, Thanh Nha; Minh, Tuan Le; Trong, Hiep Nguyen; Ngoc, Cam Tu Hoang; **Panaitescu, Casen**; Hoai, Nguyen To; Dang, Nam Nguyen, *Inhibitive behaviours of unripe banana peel extract for mitigating electrochemical corrosion of carbon steel in aggressively acidic solutions*, JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, ISSN 1658-3655, 2023, vol.17, no.1, <http://doi.org/10.1080/16583655.2023.2247633>
6. Tran, Thanh-Nha; Vu, Nguyen Si Hoai; Tran, Thien Tri; Jo, Deok Su; Huynh, Thanh Liem; Nguyen, Thi-Thao-Van; **Panaitescu, Casen**; Nguyen, Hoa Thi Thu; Nguyen, Van-Kieu; Dang, Nam Nguyen, *Precise major compounds in Barringtonia acutangula flower - water extract for mitigating carbon steel corrosion*, JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, ISSN 1876-1070, 2024, vol.155,
7. Trifoi, Ancuta Roxana; Matei, Ecaterina; Rapa, Maria; Berbecaru, Andrei-Constantin; **Panaitescu, Casen**; Banu, Ionut; Doukeh, Rami, *Coprecipitation nanoarchitectonics for the synthesis of magnetite: a review of mechanism and characterization*, REACTION KINETICS MECHANISMS AND CATALYSIS, ISSN 1878-5190, 2023, vol.136, Issue 6, p.2835-2874, <http://doi.org/10.1007/s11144-023-02514-9>
8. Neacsă, Adrian; Eparu, Cristian Nicolae; **Panaitescu, Casen**; Stoica, Doru Bogdan; Ionete, Bogdan; Prundurel, Alina; Gal, Sorin, *Hydrogen-Natural Gas Mix-A Viable Perspective for Environment and Society*, ENERGIES, ISSN 1996-1073, 2023, vol.16, no. 15, <http://doi.org/10.3390/en16155751>
9. Nguyen Phan Anh; Lai Xuan Bach; **Panaitescu, Casen**; Le Van Sy; Nam Nguyen

Dang, *An Investigation of the Role of Calcium in the Microstructure of Mg-5Al-4Sn-Based Alloys and Pitting Corrosion Resistance*, JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, ISSN 1059-9495, 2022, vol.31, no.11, p.8830-8839, <http://doi.org/10.1007/s11665-022-06910-5>

10. Trung, Duong Chi; Pham, Trung Thanh; Minh, Quoc Binh Phan; **Panaitecu, Casen**; Tran, Ngoc Quyen; Anh, Ha Tuan; Bach, Lai Xuan; Dang, Nam Nguyen, *The use of Piper Betle leaf extract for forming a barrier layer on steel surface in hydrochloric acid solution*, PROGRESS IN ORGANIC COATINGS, ISSN 0300-9440, 2021, vol.158, <http://doi.org/10.1016/j.porgcoat.2021.106340>.

11. Le Thanh Thanh; Nguyen Si Hoai Vu; Phan Minh Quoc Binh; Vinh Ai Dao; Vu Thi Hanh Thu; Pham Van Hien; **Panaitecu, Casen**; Nguyen Dang Nam, *Combined experimental and computational studies on corrosion inhibition of Houttuynia cordata leaf extract for steel in HCl medium*, JOURNAL OF MOLECULAR LIQUIDS, ISSN 0167-7322, 2020, vol.315, <http://doi.org/10.1016/j.molliq.2020.113787>

12. Le Van Sy; Phan Minh Quoc Binh; Lal, Bhajan; Quy Bau Nguyen, Tran Van Hung, **Panaitecu C.**, Nguyen Dang Nam, *The role of alloyed strontium in the microstructures and alkaline electrochemistry of Mg-5Al-4Sn alloys*, RSC ADVANCES, Volume: , Issue: 57, Pages: , 34387-3439, 2020, <https://doi.org/10.1007/s11665-022-06910-5>

13. **Panaitecu C.**, Maria Stoicescu, Maria-Georgiana Ponea, Dumitru Nancu, Dang Nam Nguyen, *Biomass valuation in the context of sustainable agricultural development in Romania*, ЕКОНОМИКА ПОЉОПРИВРЕДЕ, 2020, nr.3, <https://doi.org/10.5937/ekoPolj2003699P>

14. . Horvat, Aleksandra Marcikic; Radovanov, Boris; Popescu, Gheorghe H.**Panaitecu Caşen**; *A Two-Stage DEA Model to Evaluate Agricultural Efficiency in Case of Serbian Districts*, EKONOMIKA POLJOPRIVREDA-ECONOMICS OF AGRICULTURE, 2019, Volume: 66 Issue: 4 Pages: 965-97, <https://doi:10.5937/ekoPolj1904965M>

15. Panaitecu, C.; Petrescu, M. G., *Research About the Corosive Effects of FeCl3 in the Aeration Wastewater Basin*, 9TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (BALKANTRIB'17), IOP Conference Series-Materials Science and Engineering, SEP 13-15, 2017, TURKEY, ISSN 1757-8981, 2018, VOL.295, <http://doi.org/10.1088/1757-899X/295/1/012039>

16. Nam, N.D.,**Panaitecu, Caşen**, Tan, M.Y.J., Forsyth, M., Hinton, B., *An interaction between praseodymium 4-hydroxycinnamate with AS1020 and X65 steel microstructures in carbon dioxide environment*, Journal of the Electrochemical Society, 2018, volume 165, issue 2, C50-C59, ISSN 00134651

17. Georgescu, V., Vasilievici, G., Bombos, M., **Panaitecu, Casen**, *Study of CO-CR mixed oxides for different applications*, Revista de Chimie, Volume 68, Issue 9, September 2017, Pages 2039-2042, <https://doi.org/10.1149/2.0631802jes>

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20. Ghetiu, I., Stan, I.G., **Panaitecu, Casen**, Jinescu, C., Mares, A.M., *Surfactants efficiency in oil reserves exploitation*, Revista de Chimie (Bucharest), 2017, 68, no.2, p. 273-278, ISSN 0034-7752, <https://doi.org/10.37358/RC.17.2.5435>

21. **Panaitecu, C.**, Bombos, M., Juganaru, T., Bombos, D., Vasilievici, G., *Denitrification of Drinking Water by Hydrogenation over Pd Catalyst*, Revista de Chimie, (Bucharest), 2016, 67, 11, p.2250-2253, ISSN 0034-7752, <https://revistadechimie.ro/Articles.asp?ID=5288>.

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23. Panaitescu, C., Bombos, M., Juganaru, T., Vasilievici, G., Vartires, A., Bombos, D., *Diminishing of biological oxygen demand during wastewater depollution by oxidation with nanostructured catalysts*, Materiale Plastice, 2016, 53, no.2, p. 211-214, ISSN 0025-5289, <https://revmaterialeplastice.ro/PDFPlastice.asp>

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C2. Articole publicate în reviste și volumele unor manifestări științifice (in extenso) indexate în alte baze de date internaționale (necotate ISI)

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1. CNFIS-FDI-2019-0372- AXA2.Internaționalizarea învățământului superior din România- INTERnaționalizare pentru EDUcație și Cercetare la UNIVERSITATEA PETROL-GAZE DIN PLOIESTI, PLOIESTI prin digitalizare e-UPG –all- in-one
2. CNFIS-FDI-2021- 0196-- AXA2.Internaționalizarea învățământului superior din România- Internationalizarea prin DIGITizare. Resurse EDUcationale deschise Adaptate noilor Startegii international 2021-2027 la Universitatea Petrol-Gaze din Ploiesti- DIGITEDAS
3. CNFIS-FDI-2022-0303-AXA2.- Internationalizarea prin tineri la UPG Ploiesti. Sustinerea dezvotarii competentelor in educatia digitala, energia verde, formarea gândirii critice și alfabetizarea mediatica- InTUDEVA22
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2. Noul concept privind consumul de apa – identificarea de solutii privind scaderea consumului de apa, OMV Petrom SA Bucuresti, Contract cercetare 17 /2011
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6. Studiul calității apei uzate în stația de epurare a SC Termoelectrica Ploiești SA. Monitorizarea dinamicii principalelor grupe de microorganisme din nămolul activ – determinarea influenței unor parametri fizico-chimici ai apei, SC Termoelectrica Ploiești, Contract cercetare 66/2009
7. Monitorizarea calitatii emisiilor apei si reziduurilor provenite de la separatoarele API din cadrul statiei de epurare SC OMV PETROM operata de WABAG WATER SERVICES Contract cercetare CTTIAP 159/2010 WABAG WATER SERVICES SRL
8. Studiu/cercetare privind obtinerea compostului in Statia de compostare Balta Doamnei TERMOELECTRICA, Contract cercetare CTTIAP, 167/2011.
9. 160/2011, Analiza compusilor a opt probe de biogaz de la Rampa Ecologica Boldesti Scaieni, S.C. VITALIA S.A.
10. Organizare workshop- Monitorizarea on-line a parametrilor fizico-chimici- 179/2012, SC Envirotronic SRL
11. Studiul functionarii treptei fizico-chimice din instalatia de epurare in conditii maxime de incarcare PROWATER-172/2012
12. Studiu privind epurarea apelor reziduale in Statia de epurare Ape Uzate Sablare NOVI CONSULT SRL- Contract cercetare CTTIAP- 176/2012
13. Curs audit de mediu- Cele mai bune practici MEDA CONSULTING- 181/2012
14. Expertiză auditare Contract CTTIAP 10/2013-SC.ALL CERT SYSTEMS-
15. Analiza eficienței procesului de epurare în stația de epurare mobile dotată cu instalație Jugler-Aspenc- Studiul optimizării procesului de epurare fizico-chimica ECHIPA HORSE- 183/2012
16. Studiu/cercetare privind obținerea compostului în Stația de compostare Balta Doamnei. Monitorizarea și îmbunătățirea procesului de epurare existent în Stația de compostare Balta Doamnei Contract CTTIAP 57/2011
17. Contract- organizarea International Conference on Monitoring of Water Pollution and Wastewater Treatment Technologies- Organizare workshop monitoring of water pollution. Control VOC in refinery wastewater- CTTIAP-169/2012
18. Organizare workshop- Monitorizarea on-line a parametrilor fizico-chimici- 170/2012, SC Envirotronic SRL, Analiza eficienței procesului de epurare în stația de epurare mobile dotată cu instalație Jugler-Aspenc-Contract cercetare CTTIAP
19. Monitorizarea procesului de comostare existent in Statia de compostare Balta Doamnei, Monitorizarea Statiei de epurare de la Rampa Ecologica Valenii de Munte-Contract cttiap 149/2013, SC Termoelectrica SA
20. Realizarea raportului privind determinarea soluțiilor tehnico-economice necesare reducerii încărcării organice pentru încadrarea efluentului în condițiile de calitate impuse de NTPA 001/2005, Contract CTTIAP-3/2013-PROWATER

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