



Europass Curriculum Vitae

Informații personale

Nume / Prenume: **ADRIANA NICOLETA FRONE**

Nume anterior: **CIUCU**

Adresă: Acasă: București, Romania

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Naționalitate: Română

Experiență profesională

- Stagii/vizite profesionale:**
- 2018, Vizită de lucru la Institutul de Cercetare pentru Hârtie și Fibre Work (RISE PFI), Trondheim, Suedia;
 - 2017, 2018 Vizite de lucru la Universitatea Mons, Laboratorul de Materiale Polimerice și Compozite, Mons, Belgia;
 - 2010, stagiul doctoral de trei luni efectuat în cadrul unui proiect de cercetare doctorală finanțat prin grantul POSDRU în Franța, la Laboratoarele MAPIEM din cadrul Universității din Toulon;
 - 2008, stagiul de specializare de două săptămâni în cadrul unui proiect de cercetare internațional la Universitatea de Științe Aplicate, Wildau, Germania;

Poziții actuale și anterioare:

- | Data | 2007 – prezent |
|-------------------------------|---|
| Denumirea postului și funcția | <ul style="list-style-type: none">➤ Inginer chimist, Cercetător Științific gradul 1, (2019-prezent)➤ Inginer chimist, Cercetător Științific gradul 2, (2016-2019)➤ Inginer chimist, Cercetător Științific gradul 3, (2012-2016)➤ Inginer chimist, Cercetător Științific (2009-2012)➤ Inginer chimist, Asistent de Cercetare Științifică (2007-2009) |

Activități principale și responsabilități	<ul style="list-style-type: none"> ➤ Izolarea nanocelulozei din diverse resurse regenerabile (deșeuri agroindustriale, lemnoase ș.a), funcționalizarea și caracterizarea nanocelulozei; ➤ Obținerea de biomateriale pe bază de polimeri biodegradabili (acid polilactic, polihidroxialcanoati, amidon) și micro/nanofibre celulozice izolate din diverse materii prime; ➤ Obținerea de (nano)compozite polimerice pentru industria ambalajelor, agricultură și biomedicină prin diferite tehnici de prelucrare în topitură; ➤ Îmbunătățirea interfeței matrice-umplutură; ➤ Dezvoltarea de noi soluții tehnologice pentru obținerea (nano)compozitelor polimerice; ➤ Caracterizarea materialelor nanostructurate prin tehnica AFM – QNM și prin determinări mecanice specifice; ➤ Participarea la competiții de proiecte de cercetare naționale/internaționale pentru obținerea finanțării;
Numele și adresa angajatorului:	National Institute of R&D in Chemistry and Petrochemistry - ICECHIM, Polymer Composites and Nanocomposites Team, 202 Spl. Independentei 060021, Bucharest, Romania

Alte competențe/responsabilități profesionale:

- Coordonatorul echipei de „Compozite și Nanocompozite Polimerice”
- Membru al Consiliului Științific, Institutul Național de Cercetare-Dezvoltare pentru Chimie și Petrochimie – ICECHIM, București
- Membru al Comitetului de Organizare, Simpozionul Internațional „Prioritățile Chimiei pentru o Dezvoltare Durabilă” – PRIOCHEM
- Membru în Comitetului Consultativ Doctoral pentru trei studenți doctoranzi (Ușurelu Cătălina, Oprică Mădălina și Cazan Bogdan)

Educație

Data	2008 – 2011
Calificarea/Diploma obținută	Doctor inginer (titlul de Doctor 26.04.2012)
Domeniul studiat	Inginerie Chimică
Instituția de învățământ	Universitatea Națională de Știință și Tehnologie POLITEHNICA București, Facultatea de Chimie Aplicată și Știința Materialelor
Data	2007-2009
Calificarea/Diploma obținută	Diploma de Master
Domeniul studiat	Materiale Compozite
Instituția de învățământ	Universitatea Națională de Știință și Tehnologie POLITEHNICA București, Facultatea de Chimie Aplicată și Știința Materialelor

Data 2002-2007
 Calificarea/Diploma obținută Diploma de Inginer
 Domeniul studiat Ingineria și Chimia Compușilor Macromoleculari
 Instituția de învățământ Universitatea Națională de Știință și Tehnologie POLITEHNICA
 București, Facultatea de Chimie Aplicată și Știința Materialelor

Competențe personale

Limba maternă **Română**

Limbi străine

	Înțelegere		Vorbire		Sciere
Nivelul european (*)	Înțelegere	Citare	vorbire	Conversație	
Engleză	Utilizare C1 competență	Utilizare C2 competență	Utilizare C1 competență	Utilizare C1 competență	Utilizare C1 competență
Franceză	Nivel A2 elementar	Utilizare B1 independentă	Nivel A1 elementar	Nivel A1 elementar	Nivel A1 elementar

(*) Cadrul European Comun de Referință pentru Limbi

Competențe personale Responsabilitate, punctualitate, seriozitate, respect față de ceilalți, abilități bune de comunicare, spirit de echipă.

Competențe organizatorice ➤ 2007-2010, Contribuție la înființarea unui *Centru de excelență pentru caracterizarea nanocompozitelor polimerice*, prin dezvoltarea și dotarea a două laboratoare de cercetare pentru obținerea și caracterizarea (nano)compozitelor polimerice.

Competențe digitale

➤ Pachetul Microsoft Office: Microsoft Word, Excel, PowerPoint, Access | ACD / ChemSketch | Origin software (procesare și analizare date) | TA analysis

Asociații profesionale

➤ Membru al Societății Române de Chimie din anul 2007

Rezultate profesionale

- Capitole de carte: trei capitole în cărți internaționale;
- Articole: 86 ISI și 4 non-ISI (28 autor principal/corespondent)
- Brevete/cereri de brevet: 16 naționale
- Proiecte de cercetare: Persoană cheie în 7 proiecte internaționale și 32 naționale (5 ca director și 1 ca responsabil de proiect)
- Conferințe: peste 100 de participări la conferințe naționale/internaționale
- h-INDEX: 29 (Scopus); 3019 citări (Scopus)
- premii/medalii: 14
- Recenzor pentru Carbohydrate Polymers, Composites Part A, Cellulose, Industrial & Engineering Chemistry, BioResources; Additive Manufacturing, International journal of biological macromolecules
- Codul UEF-ID Brainmap: U-1700-039R-2454
<https://www.brainmap.ro/adriana-nicoleta-frone>

Data:

Ianuarie 2026

Anexa 1

CAPITOLE DE CARTE:

1. Panaitescu, D., **A.N Frone**, Chiulan, I. *Green Composites with Cellulose Nanoreinforcements*. In Handbook of Composites from Renewable Materials; Thakur, V.K., Thakur, M.K., Kessler, M.R.; Scrivener Publishing LLC, Vol. 7, p. 299-338, 2017; ISBN: 978-111944163-2; 978-111922362-7
2. D. M. Panaitescu, **Frone A.N.**, M. Ghiurea, C. I. Spataru, C. Radovici, M. D. Iorga, *Properties of Polymer Composites with Cellulose Microfibrils* in Advances in Composite Materials - Ecodesign and Analysis, Ed. InTech, p. 103-122, 2011, ISBN 978-953-307-150-3, WOS:000386475000006
3. D. M. Panaitescu, **Frone A.N.**, *Cellulose Nanofibers: Applications*, Encyclopedia of Biomedical Polymers and Polymeric Biomaterials, CRC Press, Vol. 2, p. 1441-1452, 2015b, ISBN 9781439898796

LUCRĂRI ȘTIINȚIFICE:

1. Ușurelu, C.-D.; Oprică, G.-M.; Panaitescu, D.M.; **Frone, A.N.**; Damian, C.M.; Nicolae, C.A.; Dima, Ș.-O.; Oancea, F.; Teodorescu, M. *Isolation of Cellulose Nanofibers from Kombucha Beverage By-Product by Chemo-Mechanical Routes*. Polymers (2025), 17, 2307. <https://doi.org/10.3390/polym17172307>
2. Panaitescu, D.M.; Vizireanu, S.I.; Oprică, G.M.; Ușurelu, C.D.; Stancu, C.; Sătulu, V.; Ghiurea, M.; Nicolae, C.-A.; Raduly, M.F.; **Frone, A.N.** *Influence of Cold Plasma Treatment on Cellulose Modification with Different Oxidizing Agents*. Materials (2025), 18, 1066. <https://doi.org/10.3390/ma18051066>
3. Panaitescu, D.M., Vizireanu, S.I., Raduly, M.F., Sătulu, V., Stancu, C., Marascu, V., Nicolae, C.-A., Gabor, A.R., Oprică, G.M., Ușurelu, C.D., Caraș, I., Frone, A.N. *Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) modified with toughening agents and surface treated by atmospheric cold plasma for tissue engineering*. International Journal of Biological Macromolecules (2025), 333, 148780
4. Panaitescu, D.M., Oprea, M., **Frone, A.N.**, Trică, B., Popa-Tudor, I., Nicolae, C.A., Damian, C.M., Constantinescu-Aruxandei, D., Oancea, F. *Valorization of Spent Lignocellulosic Substrate of Edible Mushrooms into Cellulose Nanofibers for Bionanocomposites Production*. J Polym Environ (2024), 32, 6618–6635. <https://doi.org/10.1007/s10924-024-03378-3>

5. **Frone, A.N.**; Panaitescu, D.M.; Gabor, A.R.; Nicolae, C.-A.; Ghiurea, M.; Bradu, C. *Poly(3-hydroxybutyrate) Modified with Thermoplastic Polyurethane and Microfibrillated Cellulose: Hydrolytic Degradation and Thermal and Mechanical Properties*. *Polymers* (2024), 16, 3606. <https://doi.org/10.3390/polym16243606>
6. Uşurelu, C.D.; Panaitescu, D.M.; Oprică, G.M.; Nicolae, C.-A.; Gabor, A.R.; Damian, C.M.; Ianchiş, R.; Teodorescu, M.; **Frone, A.N.** *Effect of Medium-Chain-Length Alkyl Silane Modified Nanocellulose in Poly(3-hydroxybutyrate) Nanocomposites*. *Polymers* (2024), 16, 3069. <https://doi.org/10.3390/polym16213069>
7. Uşurelu, C.-D., **Frone, A.N.**, Oprică, G.-M., Raduly, M.F., Ghiurea, M., Neblea, I.E., Nicolae, C.-A., Filip, X., Teodorescu, M., Panaitescu, D.M., *Preparation and functionalization of cellulose nanofibers using a naturally occurring acid and their application in stabilizing linseed oil/water Pickering emulsions*, *International Journal of Biological Macromolecules* (2024), 262
8. Necolau, M.I., Bălanucă, B., **Frone, A.N.** , Radu, I.N., Grădişteanu-Pîrcălăbioru, G., Damian, C.M. *Combined Thermomechanical Effect of Graphene Oxide and Montmorillonite on Biobased Epoxy Network Formation for Coatings*, *ACS Omega* (2024), 9, 7, 8297–8307
9. Raduly, F.M.; Raditoiu, V.; Raditoiu, A.; Grapin, M.; Constantin, M.; Răut, I.; Nicolae, C.A.; **Frone, A.N.** *AgO–Ginger Nanocomposites Integrated into Natural Hydrogelated Matrices Used as Antimicrobial Delivery Systems Deposited on Cellulose Fabrics*. *Gels* 2024, 10, 106. <https://doi.org/10.3390/gels10020106>
10. Oprică, G.M.; Panaitescu, D.M.; Lixandru, B.E.; Uşurelu, C.D.; Gabor, A.R.; Nicolae, C.-A.; Fierascu, R.C.; **Frone, A.N.** *Plant-Derived Nanocellulose with Antibacterial Activity for Wound Healing Dressing*. *Pharmaceutics* (2023), 15, 2672. <https://doi.org/10.3390/pharmaceutics15122672>
11. **Frone, A.N.**, Baci, D.D., Popa, M.S. Nicolae, C.A., Gabor, A.R., Raduly, M.F., Fierascu, R.C., Panaitescu, D.M., *Thermal behavior and thermo-mechanical properties of biocompatible poly(lactic acid)/allyl-POSS nanohybrids*. *Journal of Thermal Analysis and Calorimetry* (2023), 148, 10465–10479
12. Panaitescu, D.M., Melinte, V., **Frone, A.N.**, Nicolae, C.A., Gabor, A.R., Capra, L., *Influence of Biobased Polyurethane Structure on Thermal and Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)– Polyurethane Blends*. *Journal of Polymers and the Environment* (2023), 31, 1584–1597

13. Panaitescu, D. M., **Frone, A. N.**, Nicolae, C., Gabor, A. R., Miu, D. M., Soare, M., Vasile, B. S., Lupescu, I. *Poly(3-hydroxybutyrate) nanocomposites modified with even and odd chain length polyhydroxyalkanoates*, International Journal of Biological Macromolecules (2023), 244, 125324
14. Raduly, F. M., Raditoiu, V., Raditoiu, A., Grapin, M., Constantin, M., Răut, I., Nicolae, C. A., **Frone, A. N.**, *AgO–Ginger Nanocomposites Integrated into Natural Hydrogelated Matrices Used as Antimicrobial Delivery Systems Deposited on Cellulose Fabrics*. Gels (2024), 10(2), 106.
15. Oprică, G. M., Panaitescu, D. M., Lixandru, B. E., Uşurelu, C. D., Gabor, A. R., Nicolae, C., Fierascu, R. C., **Frone, A. N.** *Plant-Derived Nanocellulose with Antibacterial Activity for Wound Healing Dressing*, Pharmaceutics (2023), 15(12), 2672.
16. Oprică, G.M.; Panaitescu, D.M.; Uşurelu, C.D.; Vlăsceanu, G.M.; Stanescu, P.O.; Lixandru, B.E.; Vasile, V.; Gabor, A.R.; Nicolae, C.-A.; Ghiurea, M., **Frone, A.N.**, *Nanocellulose Sponges Containing Antibacterial Basil Extract*. International Journal of Molecular Sciences (2023), 24, 11871
17. Panaitescu, D. M., Popa, M. S., Ciuprina, F., Enache, L., **Frone, A. N.**, Nicolae, C. A., Gabor, A. R., Trusca, R., Raditoiu, V., Trica, B., Ghiurea, M.. *Role of polyaniline coating on nanosilica particles in polyvinylidene fluoride nanocomposites for energy storage*, Surfaces and Interfaces (2023), 36, 102546.
18. Raditoiu, A., Raditoiu, V., Raduly, M. F., Gabor, A. R., **Frone, A. N.**, Grapin, M., Anastasescu, M. *Cellulose Fabrics Functionalized with Sol–Gel Photocatalytic Coatings Based on Iron (III) Phthalocyanine Tetracarboxylic Acids–TiO₂–Silica Hybrids*. Gels (2023), 9(11), 860
19. Raduly, F. M., Rădițoiu, V., Rădițoiu, A., **Frone, A. N.**, Nicolae, C. A., Răut, I., Constantin, M., Grapin, M.. *Multifunctional Finishing of Cotton Fabric with Curcumin Derivatives Coatings Obtained by Sol–Gel Method*. Gels (2023), 9(5), 369.
20. Necolau, M.I., Balanuca, B., **Frone, A.N.**, Damian, C.M., *Tailoring an effective interface between nanocellulose and the epoxidized linseed oil network through functionalization*, ACS Omega (2023), 8, 18, 15896 – 15908
21. Purcar, V., Rădițoiu, V., Raduly, F. M., Rădițoiu, A., Căprărescu, S., **Frone, A. N.**, Șomoghi, R., Anastasescu, M., Stroescu, H., Nicolae, C. *Influence of Perfluorooctanoic Acid*

on Structural, Morphological, and Optical Properties of Hybrid Silica Coatings on Glass Substrates. Applied Sciences (2022), 13(3), 1669

22. **Frone, A. N.**, Uşurelu, C. D., Oprică, G. M., Panaitescu, D. M., Gabor, A. R., Nicolae, C., Ciuprina, F., Damian, C. M., Raduly, F. M. *Contribution of the Surface Treatment of Nanofibrillated Cellulose on the Properties of Bio-Based Epoxy Nanocomposites Intended for Flexible Electronics*. International Journal of Molecular Sciences (2022), 24(7), 6544

23.

24. Panaitescu, D. M., Vuluga, Z., **Frone, A. N.**, Gabor, A. R., Nicolae, C., Uşurelu, C. *Complex Effects of Hemp Fibers and Impact Modifiers in Multiphase Polypropylene Systems*. Polymers (2022), 15(2), 409

25. Popa, M.S, **Frone, A.N.**, Panaitescu, D.M., *Polyhydroxybutyrate blends: A solution for biodegradable packaging?*, International Journal of Biological Macromolecules, 2022, 207, 263 - 277

26. Uşurelu, C.D., Badila, S., **Frone, A.N.**, Panaitescu, D.M., *Poly(3-hydroxybutyrate) Nanocomposites with Cellulose Nanocrystals*, Polymers 2022, 14, 1974. Review, DOI:10.3390/polym14101974

27. **Frone, A.N.**, Popa, M.S., Uşurelu, C.D., Panaitescu, D.M., Gabor, A.R., Nicolae, C.A., Raduly, M.F., Zaharia, A., Alexandrescu E., *Bio-Based Poly(lactic acid)/Poly(butylene sebacate) Blends with Improved Toughness*, Polymers, 2022, 14, 3998

28. Oprica, M.G., Uşurelu, C.D., **Frone, A.N.**, Gabor, A.R., Nicolae, C.-A., Vasile, V., Panaitescu, D.M., *Opposite Roles of Bacterial Cellulose Nanofibers and Foaming Agent in Polyhydroxyalkanoate-Based Materials*, 2022, Polymers, 14 ,5358

29. Panaitescu, D.M., Stoian, S., **Frone, A.N.**, Vlasceanu, G.M., Baci, D.D., Gabor, A.R., Nicolae, C.A., Raditoiu, V., Alexandrescu, E., Casarica, A., Damian, C., Stanescu, P., *Nanofibrous scaffolds based on bacterial cellulose crosslinked with oxidized sucrose*, International Journal of Biological Macromolecules, 2022, 221, 381-397

30. **Frone, A.N.**, Ghiurea, M., Nicolae, C.A., Gabor, A.R., Badila, S., Panaitescu, D.M., *Poly(lactic acid)/Poly(3-hydroxybutyrate) Biocomposites with Differently Treated Cellulose Fibers*, Molecules, 2022, 27, 2390

31. Panaitescu D.M., Melinte V., **Frone A.N.**, Nicolae C.A., Gabor A.R., Capră L., *Influence of Biobased Polyurethane Structure on Thermal and Mechanical Properties of Poly(3-*

hydroxybutyrate-co-3-hydroxyvalerate)– *Polyurethane Blends*, Journal of Polymers and the Environment, 2022, <https://doi.org/10.1007/s10924-022-02710-z>

32. Gălan A.-M., Vlaicu A., Vintilă A.C.N., Cîlțea-Udrescu M., Cerchezan G., **Frone A.N.**, Vasilievici G., Paulenco A., *Microalgae Strain Porphyridium purpureum for Nutrient Reduction in Dairy Wastewaters*, Sustainability, 2022, 14, 8545

33. Raduly F.M., Rădițoiu V., Rădițoiu A., Purcar V., Ispas G., **Frone A.N.**, Gabor R.A., Nicolae C.-A., *Optical Behavior of Curcuminoid Hybrid Systems as Coatings Deposited on Polyester Fibers*, Coatings, 2022, 12, 271

34. Raduly F.M., Rădițoiu V., Rădițoiu A., **Frone A.N.**, Nicolae C.A., Purcar V., Ispas G., Constantin M., Răut I., *Modeling the properties of curcumin derivatives in relation to the architecture of the siloxane host matrices*, Materials, 2022, 15, 267

35. Purcar, V., Raditoiu, V., Raduly, F.M., Caprarescu, S., **Frone, A.N.**, Nicolae, C.-A., Anastasescu, M., *Investigation of hybrid films based on fluorinated silica materials prepared by sol – gel processing*, Coatings (2022), 12, 1595

36. Purcar, V., Raditoiu, V., Raditoiu, A., Raduly, F.M., Ispas, G.C., Caprarescu, S., **Frone, A.N.**, Trica, B., Nicolae, C.A., Anastasescu, M., *Effect of modified silica materials on polyvinyl chloride (PVC) substrates to obtain transparent and hydrophobic hybrid coatings*, Applied Sciences (2021), 11, 11044

37. Panaitescu, D.M., Popa, M.S., Raditoiu, V., **Frone, A.N.**, Sacarescu, L, Gabor, A.R., Nicolae, C.A., Teodorescu, M., *Effect of calcium stearate as a lubricant and catalyst on the thermal degradation of poly(3-hydroxybutyrate)*, International Journal of Biological Macromolecules (2021), 190, pp 780 – 791

38. Popa, M.S., **Frone, A.N.**, Cristian, R.I., Stanescu, P.O., Trusca, R., Raditoiu, V., Nicolae, C.A., Gabor, A.R., Panaitescu, D.M., *Microfibrillated cellulose grafted with metacrylic acid as a modifier in poly(3-hydroxybutyrate)*, Polymers (2021), 13, 3970

39. Purcar, V., Rădițoiu, V., Rădițoiu, A., Raduly, F.M., Manea, R., **Frone, A. N.**, Anastasescu, M., Ispas, G.C., Căprărescu, S. *Bilayer coatings based on silica materials and iron (III) phthalocyanine – Sensitized TiO2 photocatalyst*, Materials Research Bulletin (2021), 138, art. no. 111222

40. Purcar, V., Rădițoiu, V., Rădițoiu, A., Manea, R., Raduly, F.M., Ispas, G.C., **Frone, A.N.**, Nicolae, C.A., Gabor, R.A., Anastasescu, M., Stroescu, H., Căprărescu, S., Preparation and

characterization of some sol-gel modified silica coatings deposited on polyvinyl chloride (Pvc) substrates, *Coatings* (2021), 11 (1), art. no. 11, pp. 1-13

41. David, M.E., Grigorescu, R.M., Iancu, L., Andrei, E.R., Somoghi, R., **Frone, A.N.**, Atkinson, I., Predoana, L., Nicoara, A.-I., Ion, R.-M., Synthesis and characterization of multi-walled carbon nanotubes decorated with hydroxyapatite, *Fullerenes Nanotubes and Carbon Nanostructures* 2021, 29:423-430, DOI: 10.1080/1536383X.2020.1854743

42. **Frone, A.N.**, Panaitescu, D.M., Nicolae, C.A., Gabor, A.R., Trusca, R., Casarica, A., Baci, D.D., Salageanu, A. *Bacterial cellulose sponges obtained with green cross-linkers for tissue engineering*, *Materials Science & Engineering C-Materials for Biological Applications* 2020, 110, art. no. 110740, DOI: 10.1016/j.msec.2020.110740

43. **Frone, A.N.**, Batalu, D., Chiulan, I., Oprea, M., Gabor, A.R., Nicolae, C.A., Raditoiu, V., Trusca, R., Panaitescu, D.M. *Morpho-Structural, Thermal and Mechanical Properties of PLA/PHB/Cellulose Biodegradable Nanocomposites Obtained by Compression Molding, Extrusion, and 3D Printing*, *Nanomaterials* 2020, 10 (1), art. no. 51, DOI: 10.3390/nano10010051

44. Oprea, M., Panaitescu, D.M., Nicolae, C.A., Gabor, A.R., **Frone, A.N.**, Raditoiu, V., Trusca, R., Casarica, A. *Nanocomposites from functionalized bacterial cellulose and poly(3-hydroxybutyrate-co-3-hydroxyvalerate)*. *Polymer Degradation and Stability* 2020, 179, art. no. 109203

45. **Frone, A.N.**, Nicolae, C.A., Eremia, M.C., Tofan, V., Ghiurea, M., Chiulan, I., Radu, E., Damian, C.M., Panaitescu, D.M., Low molecular weight and polymeric modifiers as toughening agents in poly(3-hydroxybutyrate) films, *Polymers* 2020, 12:1-20

46. Chiulan, I., Panaitescu, D.M., Radu, E.-R., **Frone, A.N.**, Gabor, R.A., Nicolae, C.A., Jinescu, G., Tofan, V., Chinga-Carrasco, G., *Comprehensive characterization of silica-modified silicon rubbers*, *Journal of the Mechanical Behavior of Biomedical Materials* 2020, 101, art. no. 103427.

47. Rădițoiu, V., Purcar, V., Rădițoiu, A., Raduly, M. F., **Frone, A.N.**, Anastasescu, M., Stoica, M., Alexandrescu, E., Șomoghi, R., Manea, R., Ispas, G. C., Wagner, L. E., Căprărescu, S. *Sol-gel hybrid films based on organosilanes with long alkyl chains*, *Journal of Coatings Technology and Research* 2020, 17:1389-1399, <https://doi-org.am.e-information.ro/10.1007/s11998-020-00359-8>

48. Raditoiu, A., Raditoiu, V., Raduly, F.M., Ispas, G.C., Purcar, V., **Frone, A.N.**, Manea, R., Wagner, L.E., Anastasescu, M., Fluorescent silica hybrid film-forming materials based on salicylaldazine, *Coatings* 2020, 10:1-12
49. Jinescu, G., Evtodiev, A., Marin, I.-A., Chiulan, I., Radu, E.-R., **Frone, A.N.**, Costea, R., Raita, Ș. *Perspectives of silicone elastomere implants use in preventing postoperative complications in pelvic exenteration for advanced cancers*. *Revista de Chimie* 2020, 71 (1), pp. 45-51
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2. COFUND-WATER4ALL 2022 Joint Transnational Call - WATER-BIOFIL-1, nr. 57/2024, Next-generation biodegradable filters for water purification and desalination, 2024-2027, persoană cheie
3. PN-III - European and International Cooperation - Subprogram 3.2 - Horizon 2020, 33/2018, New functionalized medical devices for surgical interventions in the pelvic cavity (MedIn), 2018 - 2020, membru în echipă
4. H2020-NMP-PILOTS-2015, 686165, Injection molding, casting and coating PILOTS for the production of improved components with nano materials for automotive, construction and agricultural machinery (IZADINANO2INDUSTRY), 2015-2018, membru în echipă
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6. 107 BM, Composites based on polyhydroxyalkanoates and surface modified nanocellulose for fully biodegradable packaging (CHEMOPOL), 2017-2018, membru în echipă
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2. PN-III-P4-PCE-2021-0435, PCE 77/2022 Design of new nanocellulose-based gas-carrier systems (CELGAS), 2022 – 2024, persoană cheie
3. PN-III-P4-PCE-2021-0292, 92PCE/2022 Through nanotechnology towards the next generation dental restorative materials (NANODENT), 2022-2024, persoană cheie
4. PN-III-P2-2.1-PED-2021-0795, 701PED/2022 Eco-friendly nanocomposites based on bio-PA and bio-fillers for injected auto parts (ECONANO4AUTO), 2022-2024, membru în echipă
5. PN-III-P2-2.1-PTE-2021-0675, Prototype coating system to reduce the CO₂ footprint and environmental impact in shipping (SPARACOM), 2022-2024, persoană cheie
6. PN-III-P2-2.1-PTE-2021-0339, 78PTE/2022 Improved technology to fabricate holographic marks with encapsulated thermochrome system (HOLTERM), 2022-2024, persoană cheie
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15. PN-III-P1-1.2-PCCDI-2017-0428, Innovative technologies based on polymers for the obtaining of new advanced materials, 2018-2021, membru în echipă
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