

PAPERS LIST

1. *M. D. Pop, V. Anăstăsoaie, M. Apostoiu Popescu, A. Oprisanu E.-M. Ungureanu and M. Cristea*, “New azulene Modified Electrodes for heavy metal sensing”, in *Revista de Chimie*, **vol. 68**, no. 9, 2017, pp. 2172-2175.
2. *E. Diacu, A. Paun, V. Anăstăsoaie, G.-L. Arnold-Tatu, L. Birzan and E.- M. Ungureanu*, “Electroactive properties of a new azulene thioxo-imidazolidin-4-one ligand for modified electrodes”, in *Journal of Electrochemical Science and Engineering*, **vol. 10**, no. 2, Mar. 2020, pp. 209-217.
3. *L.-B. Enache, V. Anăstăsoaie, L. Birzan, E.-M. Ungureanu, P. Diao and M. Enăchescu*, “Polyazulene-Based Materials for Heavy Metal Ion Detection. 2.(E)-5-(azulen-1-yl diazenyl)-1HTetrazole-Modified Electrodes for Heavy Metal Sensing”, in *Coatings*, **vol. 10**, no. 9, Sept. 2020, 869. - **Premiu PRECISI**.
4. *A. Cernat, A. Petica, V. Anăstăsoaie, O. Lazar, S.J. Györfi, M.-B. Irimes, G. Stefan, M. Tertiş, M. Enăchescu, L. Anicăi and C. Cristea*, “Detection of hydrogen peroxide involving bismuth nanowires via templatefree electrochemical synthesis using deep eutectic solvents”, in *Electrochemistry Communications*, **vol. 121**, Dec. 2020, 106869. - **Premiu PRECISI**.
5. *A. Ștefaniu, L. Pirvu, E.-M. Ungureanu, L. Birzan, G. Ștanciu, L.-B. Enache and V. Anăstăsoaie*, “Virtual Screening of Compounds by Chemoinformatics Tools in the Chemistry Labs”, in *Proceedings*, **vol. 55**, no. 1, Sept. 2020, 9.
6. *A.-M. Păun, O.-T. Matica, V. Anăstăsoaie, L.-B. Enache, E. Diacu and E.-M. Ungureanu*, “Recognition of Heavy Metal Ions by Using E-5 -((5-Isopropyl-3, 8-Dimethylazulen-1-yl) Dyazenyl) -1H- Tetrazole Modified Electrodes”, in *Symmetry*, **vol. 13**, no. 4, Apr. 2021, 644. - **Premiu PRECISI**.
7. *V. Anăstăsoaie, E. Diacu, E.-M. Ungureanu, M. R. Bujduveanu, L. Birzan and M. Cristea*, “New Chemically Modified Electrodes Based on Crown Ether-Azulenenes for Heavy Metal Analysis”, in *U.P.B. Sci. Bull., Series B*, **vol. 83**, no. 2, 2021, pp. 15-26.
8. *A. Ștefaniu, L. Pintilie, V. Anăstăsoaie and E.-M. Ungureanu*, “In silico Evaluation of Antimicrobial Activity of Some Thiadiazoles Using Molecular Docking Approach” in *Chemistry Proceedings*, **vol. 3**, no.1, 2021, 116.
9. *C. C. Moise, L.-B. Enache, V. Anăstăsoaie, O. A. Lazăr, G. V. Mihai, M. Bercu and M. Enăchescu*, “On the growth of copper oxide nanowires by thermal oxidation near the threshold temperature at atmospheric pressure”, in *Journal of Alloys and Compounds*, **vol. 886**, Dec. 2021, 61130. - **Premiu PRECISI**.
10. *D. V. Morales, C. N. Astudillo, V. Anăstăsoaie, B. Dautreppe, B. F. Urbano, B. L. Rivas, C. Gondran, D. Aldakov, B. Chovelon, D. André, J.-L. Putaux, C. L.-Pin, S. Sirach, E.-M. Ungureanu, C. Costentin, M.-N. Collomb and J. Fortage*, “A cobalt oxide–polypyrrole nanocomposite as an efficient and stable electrode material for electrocatalytic water oxidation”, in *Sustainable Energy Fuels*, **vol. 5**, no. 18, Aug. 2021, pp. 4710-4723. - **Premiu PRECISI**.
11. *L.-B. Enache, V. Anăstăsoaie, C. Lete, A. G. Brotea, O.-T. Matica, C.-A. Amarandei, J. Brandel, E.-M. Ungureanu and M. Enăchescu*, “Polyazulene-Based Materials for Heavy Metal Ion Detection. 3. (E)-5-((6-t-Butyl-4,8-dimethylazulen-1-yl) diazenyl)-1H-tetrazole-Based Modified Electrodes”, in *Symmetry*, **vol. 13**, no. 9, Sept. 2021, 1642. - **Premiu PRECISI**.
12. *V. Anăstăsoaie, C. Omocea, L.-B. Enache, L. Anicăi, E.-M. Ungureanu, J.F. van Staden and M. Enăchescu*, “Surface Characterization of New Azulene-Based CMEs for Sensing”, in *Symmetry*, **vol. 13**, no. 12, Dec. 2021, 2292.
13. *R. Tomescu, F. Nita, S. Caramizoiu, V. Anăstăsoaie and D. Cristea*, “Numerical analysis of plasmonic metasurfaces for fluorescence enhancement” in *EPJ Web of Conferences*, **vol. 255**, Nov. 2021, 04004.

14. E.-M. Ungureanu, V. **Anăstăsoaie**, M.-R. Bujduveanu, A.-G. Brotea, R. Isopescu, G. Stanciu, "Polyazulene Based Materials for Heavy Metal Ions Detection. 4. Search for Conditions for Thiophen-Vinyl-Pyridine-Azulene Based CMEs Preparation", in *Symmetry*, **vol. 14**, no. 2, Jan. 2022, 225.
15. V. **Anăstăsoaie**, R. Tomescu, C. Kusko, I. Mihalache, A. Dinescu, C. Parvulescu, G. Craciun, S. Caramizoiu and D. Cristea, "Influence of Random Plasmonic Metasurfaces on Fluorescence Enhancement", in *Materials*, **vol. 15**, no. 4, 2022, 1429.
16. C. Omocea, V. **Anăstăsoaie**, R. Mandoc, M.-R. Bujduveanu and E.-M. Ungureanu, "Electrochemical studies on new triphenyl arsonium derivatives", in *Sci. Bull., U.P.B. Sci. Bull., Series B*, **vol. 84**, no. 2, 2022.

SCIENTIFIC MEETINGS ATTENDED

1. V. Stănescu, C. Iordache, I. Stanescu, M.-R. Bujduveanu, V. **Anastasoiaie**, M. D. Pop, E.-M. Ungureanu, Polyazulene Based Materials for Heavy Metal Ions Detection, 29th European Symposium on Applied Thermodynamics, Bucharest, Romania, ESAT 2017, 18-21 May 2017, Poster P67;
2. A. Oprisanu, M. D. Pop, V. **Anăstăsoaie**, E.-M. Ungureanu, M. Cristea, I. Chilibon, L. Birzan, Thermodynamics of Polyazulene Based Materials, 29th European Symposium on Applied Thermodynamics, Bucharest, Romania, ESAT 2017, 18-21 May 2017,
3. M. Apostoiu Popescu, V. **Anăstăsoaie**, G.-O. Buica, E. -M. Ungureanu, A. Oprisanu, M. Cristea, New Azulene Modified Electrodes for Heavy Metal Ion Complexation, RICCE20/2017-Romanian International Conference on Chemistry and Chemical Engineering, Poiana Braşov, ROMANIA, 6-9.09.2017, Poster S3-375 Section 3, Physical Chemistry; Electrochemistry & Corrosion, Poster, 07.09.2017.
4. C. Omocea, V. **Anăstăsoaie**, M.-R. Bujduveanu, L. Birzan, E.-M. Ungureanu, Electrochemical Study of Certain Triphenylalkylarsonium Derivatives, 8th International Conference "Chimia", workshop NOMARES, Constanta Romania, 24- 26 May, 2018, Poster PW5, 25.05.2018.
5. V. **Anăstăsoaie**, M. Apostoiu Popescu, M. Cristea, M.-R. Bujduveanu, E.- M. Ungureanu, New Modified Electrodes for Heavy Metal Sensing, 8th International Conference "Chimia", NOMARES workshop, Constanta Romania, 24- 26 May 2018;
6. V. **Anăstăsoaie**, C. Omocea, M.-R. Bujduveanu, L. Birzan, E.-M. Ungureanu, Electrochemical Study of Certain Triphenylalkylarsonium Derivatives, XXXV National Chemistry Conference, Calimăneşti-Căciulata Romania, 02-05 October 2018, Poster (P.S.IV. - 1.) 04.08.2018.
7. L.-B. Enache, V. **Anăstăsoaie**, M. Cristea, E.-M. Ungureanu, Electrochemical Properties of Modified Electrodes Based on Azulene Azotetrazole, 9th International Conference of the Chemical Societies of the South-East European Countries, 8-11 May 2019, Targoviste, Romania, poster (S4_P_17) 09.05.2019;
8. L.-B. Enache, C. Moise, V. **Anăstăsoaie**, G. Mihai, O. Lazar, E.-M. Ungureanu, L. Anicai, M. Enachescu, Platinum Nanoparticles as Smart Catalyst Synthesized by Krf Laser Ablation in Liquids, 9th International Conference of the Chemical Societies of the South-East European Countries, 8- 11 May 2019, Targoviste, Romania, poster (S1_P_31) 09.05.2019;
9. A. Petica, V. **Anăstăsoaie**, G. Mihai, M. Enachescu, L. Anicai, Electrochemical synthesis of bismuth and copper nanowires involving ionic liquids analogues, 9th International Conference of the Chemical Societies of the South-East European Countries, 8-11 May 2019, Targoviste, Romania, poster (S4_P_16) 09.05.2019;
10. V. **Anăstăsoaie**, M. Apostol (Apostoiu), L.-B. Enache, L. Birzan, E.-M. Ungureanu, M. Enachescu, Comparison of electrochemical properties of azulene-azothiadiazoles, 9th International Conference of the Chemical Societies of the South-East European Countries,

- 8–11 May 2019, Targoviste, Romania, prezentare orală (S4_OP_02) 09.05.2019;
11. **V. Anăstăsoaie**, L. Enache, C. Omocea, L. Bîrzan, R. Isopescu, E.-M. Ungureanu, Electrochemical behaviour of new (azulen-1-ylidiazenyl)-heteroaromatic compounds containing 1,2,5- thiadiazol-3-yl moieties, 7th Regional Symposium on Electrochemistry for South-East Europe, 27-30 May 2019, Split, Croatia, poster (EAS-P-13) 27-28.05.2019.
 12. E. Diacu, E.-M. Ungureanu, A. A. Ivanov, S.-V. Pistol, **V. Anăstăsoaie**, C. Omocea, L. Bîrzan, Study of electroactive properties of a new tetrazole azulene derivative for modified electrodes, 7th Regional Symposium on Electrochemistry for South-East Europe, 27-30 May 2019, Split, Croatia, prezentare orală, poster (EAS-P-12) 27-28.05.2019;
 13. **V. Anăstăsoaie**, L. Enache, M. Cristea, R. Isopescu, G. Stanciu, E.-M. Ungureanu, Electrochemical properties of substituted thioxothiazolidin-azulene, 7th Regional Symposium on Electrochemistry for South-East Europe, 27-30 May 2019, Split, Croatia, prezentare orală (ORG-O-4) 30.05.2019;
 14. **V. Anăstăsoaie**, M. Apostoiu (Popescu), G.-L. Tatu (Arnold), L. Birzan, E.- M. Ungureanu, M. Enachescu, Carbon Based-Nanomaterials for Analytical Applications, 70th Annual Meeting of the International Society of Electrochemistry, 4-9 August 2019, Durban, South Africa, poster (S14-011) 06.08.2019;
 15. C. Omocea, E.-M. Ungureanu, L. Bîrzan, **V. Anăstăsoaie**, L.-B. Enache, M. Enăchescu, Detection of lead ions by voltammetry on azulene based CMEs, 21st Romanian International Conference on Chemistry and Chemical Engineering, 4–7 September 2019, Constanta-Mamaia, ROMANIA, poster (S3 – 367) 05.09.2019.
 16. L.-B. Enache, **V. Anăstăsoaie**, L. Birzan, E.-M. Ungureanu, M. Enachescu, Surface and electrochemical techniques for characterization of azulene azotetrazoles and heavy metal ions detection, 21st Romanian International Conference on Chemistry and Chemical Engineering, 4–7 September 2019, Constanta- Mamaia, Romania, poster (S3 – 159) 05.09.2019;
 17. **V. Anăstăsoaie**, M. Apostoiu(Popescu), L.-B. Enache, L. Birzan, E.-M. Ungureanu, M. Enachescu, Azulene-azothiadiazoles ligands for heavy metals detection using CME, 21st Romanian International Conference on Chemistry and Chemical Engineering, 4–7 September 2019, Constanta- Mamaia, ROMANIA, poster (S3 – 158) 05.09.2019;
 18. A. Petica, **V. Anăstăsoaie**, O. Lazar, M. Enachescu, T. Visan, L. Anicai, Electrochemical synthesis of 1D bismuth nanostructures using deep eutectic solvents, 21st Romanian International Conference on Chemistry and Chemical Engineering, 4–7 September 2019, Constanta-Mamaia, Romania, poster (S3 – 67) 05.09.2019;
 19. J. Fortage, D.V. Morales, C. N. Astudillo, **V. Anăstăsoaie**, E.-M. Ungureanu, B. Urbano, B. L. Rivas, C. Gondran, D. Aldakov, C. Costentin, M.-N. Collomb, Highly stable cobalt oxide-polypyrrole nanocomposite for electrocatalytic water oxidation, 5th International Conference New Trends on Sensing - Monit.g - Telediagnosis for Life Sciences, NOMARES Workshop, July 3-4, 2020, Online, KN 4.2.;
 20. G. Mihai, C. Moise, O. Lazar, **V. Anăstăsoaie**, L.-B. Enache, S. Rosoiu, M. Vardaki, A. Pantazi, M. Enachescu, GaN nanostructuring, 5th International Conference New Trends on Sensing - Monit.g - Telediagnosis for Life Sciences, NOMARES Workshop, July 3-4, 2020, Online, prezentare orală (O. 4.3.);
 21. **V. Anăstăsoaie**, L.-B. Enache, M.-R. Bujduveanu, E.-M. Ungureanu, L. Birzan, M. Enachescu, Heavy metals ions detection on azulene-azothiadiazoles based CMEs, 5th International Conference New Trends on Sensing - Monit.g - Telediagnosis for Life Sciences, NOMARES Workshop, July 3-4, 2020, Online, poster (P. 4.1.) - **premiu pentru cel mai bun poster**;
 22. L.-B. Enache, **V. Anăstăsoaie**, L. Birzan, M. Enachescu, G. Stanciu, E.-M. Ungureanu, (E)-5-(azulen-1-ylidiazenyl)-1h-tetrazole modified electrodes for heavy metal sensing, 5th International Conference New Trends on Sensing - Monitoring - Telediagnosis for Life

- Sciences, NOMARES Workshop, July 3-4, 2020, Online, poster (P. 4.9.);
23. C. Omocea, E.-M. Ungureanu, L. Birzan, **V. Anăstăsoaie**, L.-B. Enache, M. Enachescu, Detection of lead ions by voltammetry on azulene based CMEs, 5th International Conference New Trends on Sensing - Monitoring - Tediagnosis for Life Sciences, NOMARES Workshop, July 3-4, 2020, Online, poster (P. 4.15.);
 24. E.-M. Ungureanu, **V. Anăstăsoaie**, L.-B. Enache, L. Birzan, M. Enachescu, Azulene Azotetrazoles Modified Electrodes for Heavy Metal Ions Detection, 71st Annual Meeting of the International Society of Electrochemistry, Symposium 14 D (smart electroactive molecules), 31 Aug – 01 Sep 2020, Belgrade, Online, Lecture (D6);
 25. **V. Anăstăsoaie**, L. B. Enache, M. R. Bujduveanu, E.-M. Ungureanu, L. Birzan, M. Enachescu, Evidence of Lead Ions Detection on Azulene Based CMEs by Voltammetry, 71st Annual Meeting of the International Society of Electrochemistry, Symposium 14 D (smart electroactive molecules), 31 Aug– 01 Sep 2020, Belgrade, Online, poster (D7);
 26. A. Ștefaniu, E.-M. Ungureanu, L. Bîrzan, **V. Anăstăsoaie**, In Silico Analysis of Reactivity Parameters of 1,3,4-Thiadiazole Derivatives, International Chemical Engineering and Materials Symposium, SICHEM, University Politehnica of Bucharest, Romania, online 17– 18 September 2020, Section B Applied organic, inorganic, and supramolecular chemistry in process engineering, poster 6;
 27. **V. Anăstăsoaie**, E. Diacu, E.-M. Ungureanu, M. R. Bujduveanu, L. Birzan, M. Cristea, New Chemically Modified Electrodes Based on Crown Ether-Azulenenes for Heavy Metal Analysis, 8th International Conference on Materials Science and Technologies – RoMat 2020, Bucharest, Romania, November 26-27th, 2020, online, poster;
 28. A.-A. Vasile (Corbei), **V. Anastasoiaie**, E.-M. Ungureanu, A. Ștefaniu, Theoretical Studies Using Quantum Mechanical Calculations for 1,3,4-Thiadiazole Derivatives with Electrochemical Applications, XXVIth International Symposium on Bioelectrochemistry and Bioenergetics BES (online), 9–13 Mai 2021, Cluj-Napoca, ROMANIA, Poster S2-P017.
 29. C. Parvulescu, N. Varachiu, R. Tomescu, **V. Anăstăsoaie**, D. Cristea, DOE (Design of Experiment) for TiO₂ nanotubes for VOCs applications, 18th International Conference on Nanosciences & Nanotechnologies (NN 21), 6-9 July 2021, Thessaloniki, Greece, prezentare orală;
 30. R. Tomescu, F. Nita, S. Caramizoiu, **V. Anăstăsoaie**, D. Cristea, Numerical analysis of plasmonic metasurfaces for fluorescence enhancement, The European Optical Society Annual Meeting, EOSAM, 13 - 17 September 2021, Rome, Italy, poster;
 31. R. Tomescu, **V. Anăstăsoaie**, C. Parvulescu, L. Mihai, C. Paun, D. Cristea, Metasurface for sensing applications, 4th Autumn School on Physics of Advanced Materials (PAMS-4), Sant Feliu de Guixols, Spain, September 24-30, 2021, poster – **organizing committee prize**
 32. **V. Anastasoiaie**, R. Tomescu, I. Mihalache, A. Dinescu, C. Parvulescu, D. Cristea, Metasurface structures for electromagnetic field enhancement, The 13th International Conference on Physics of Advanced Materials (ICPAM-13), Sant Feliu de Guixols, Spain, September 24-30, 2021, prezentare orală;
 33. **V. Anastasoiaie**, C. Omocea, L.-B. Enache, E.-M. Ungureanu, Azulene-thiadiazole modified electrodes for heavy metal sensing, 44th International Semiconductor Conference (CAS), 6 - 8 October 2021, online, student paper, prezentare orală;
 34. R. Tomescu, **V. Anăstăsoaie**, D. Cristea, Fluorescence enhancement with metasurfaces structures, NanoSpain2022, Madrid, Spania, 17-20 May 2022, poster.