

LISTA LUCRĂRILOR ELABORATE ȘI/SAU PUBLICATE

Dr. Violeta MANGALAGIU (VASILACHE)

I. Lucrări relevante pentru realizările profesionale proprii

- 1) Matei E., Enculescu I., **Vasilache V.**, Teodorescu C.M., (2010), *Cobalt doped ZnO prepared by electrochemistry: chemistry, morphology, and magnetism*, Physica Status Solidi, Phys.Status Solidi A, 207(11), pg.2517-2522, ISSN 1862-6300, (ISI 1.458)
- 2) **Vasilache V.**, Filote C., Cretu M.C., Sandu I., Coisin V., Vasilache T., Maxim C., (2012), *Monitoring of groundwater quality in some vulnerable areas in Botosani county for nitrates and nitrites based pollutants*, Environmental Engineering and Management Journal, vol.11(2), pag.471-481, ISSN: 1582-9596 (ISI 1.117)
- 3) **Vasilache V.**, Apostol N.G., Lungu A., Macovei D., Teodorescu C.M., (2012), *Manganese-based room temperature ferromagnetism in gallium arsenide*, Optoelectronics And Advanced Materials – Rapid Communications Vol. 6, No. 11-12, Nov. – Dec. 2012, p. 1054 - 1060, ISSN:**1842-6573**, (ISI 0.304)
- 4) Preda N., Enculescu M., Zgura I., Socol M., Matei E., **Vasilache V.**, Enculescu I., (2013), *Superhydrophobic properties of cotton fabrics functionalized with by electroless deposition*, Materials Chemistry and Physics, 138, p.253-261, ISSN: 0254-0584, (ISI 2.385)
- 5) **Vasilache V.**, Lungu G.A., Logofatu C., Medianu R.V., Teodorescu C.M., (2013), *Ferromagnetism and reactivity of Fe deposited on GaAs(001) by magnetron sputtering*, Digest Journal of Nanomaterials and Biostructures, Vol. 8, No. 1, January - March 2013, p. 255 - 261, ISSN 1842 - 3582 (ISI 1.2)
- 6) **Vasilache V.**, Moldoveanu C., Fărtăiș L., Rîșca M.I., (2014), *Effect of Some New Imidazole Derivatives on Wheat (Triticum Aestivum) Germination*, Revista de Chimie, București, 65 (2), p.177-180, ISSN 0034-7752, (ISI 0.677)
- 7) Moldoveanu C., **Vasilache V.**, Risca I.M., (2015), *Biological Effects of Some New Imidazole Derivatives on Spruce (Picea Abies) Germination*, 66 (1), p.104-108, Revista de Chimie, București, ISSN 0034-7752, (ISI 0.693)
- 8) Danac R., Daniloaia T., Antoci V., **Vasilache V.**, Mangalagiu I., (2015), *Design, Synthesis and Antimycobacterial Activity of Some New Azaheterocycles: Phenanthroline with p-halo-benzoyl Skeleton. Part V*, Letters in Drug Design & Discovery, 12, p.14-19, (ISI 0.974)
- 9) Marusic G., Sandu I., **Vasilache V.**, Filote C., Sevcenco N., Cretu M.-A. (2015), *Modeling of Spacio-temporal Evolution of Fluoride Dispersion in "River-type" Systems*, REV. CHIM. (Bucharest), 66 (4), pag.503-506, (ISI 0.956)
- 10) Mantu D., Antoci V., **Vasilache V.**, Luca C.M.,(2016), *Structure and anticancer activity of some bis-pyridazine derivatives*,67(1), p. 127-130, Revista de Chimie, București, ISSN 0034-7752, (ISI 0.956)
- 11) Ciobanu C.I., Drochioiu G., Carlescu I., Lisa G., Antoci V., **Vasilache V.**, Scutaru D., (2016), *Thermal behavior of some bent-core resorcinol derivatives with azo-Type spacers and variable flexible chain*, Letters in Organic Chemistry, Volume 13, Issue 2, 1 February 2016, Pages 156-161, (ISI 0.756)
- 12) Zbancioc Gh., Moldoveanu C., Humelnicu I., **Vasilache V.**, Mangalagiu I.I.,(2016), *Pyridine/quinoline*

derivates bearing a imidazole/ benzimidazole moiety: a LC-MS approach of structure determination, 67(8), p.1516-1519, Revista de Chimie, București, ISSN 0034-7752, (ISI 0.956)

13) Antoci V., Humelnicu I., **Vasilache V.**, Mantu D., (2016), *Synthesis, structure and biological activity of some hybrid benzimidazole/quinoline derivatives*, 67(9), p.1713-1716, Revista de Chimie, București, ISSN 0034-7752, (ISI 1.23)

14) Mantu D., Antoci V., Nicolescu A., Deleanu C., **Vasilache V.**, Mangalagiu I.I., (2017), *Synthesis, stereochemical studies and antimycobacterial activity of new acetylhydrazines pyridazinone*, Curr. Org. Synth., 14(10), 112-119 (FI=2.05)

15) Humelnicu I., **Vasilache V***.,(2017), *Synthesis and Structure of a New class of Fused Heterocycle with Pyridazino-triazine Skeleton*, Rev. Chim (Bucharest), 68 (6), 1159-1162 (ISI 1.23)

16) Olaru A., **Vasilache V.**, Danac R., Mangalagiu I.I., (2017), *Antimycobacterial activity of nitrogen heterocycles derivatives: 7-(pyridine-4-yl)- indolizine derivatives. Part VII*, J. Enzym. Inh. Med. Ch., 32(1), 1291-1298 (ISI 4.28)

17) **Vasilache V.**, Cretu M-A. , Sandu I., Risca M.I., Vasilache T., (2017), *A statistical study about photocatalytic properties of titania crystals deposited by sputtering*, Rev. Chim (Bucharest) (2017), 68 (7), 1578-1580, (ISI 1.23)

18) **Vasilache V.**, Cretu A.M., Pascu L.F., Risca M., Ciomea E., Maxim C., Sandu I.G., Ciobanu C.I., (2015), *Dehydrogenases activity In sludge samples of Suceava river*, International Journal Of Conservation Science, 6, (1), pag. 93-98

A. Teza de doctorat

Contribuții la optimizarea procesului de depunere galvanică a nichelului și a aliajelor de nichel folosite în construcția de mașini

B. Cărți și capitole în cărți publicate în ultimii 10 anii

1. **Vasilache V., Sandu I.**, (2009), *Sisteme disperse și fizico-chimia suprafețelor*, Editura Universității Ștefan cel Mare Suceava, ISBN 978-973-666-319-2, pag. 324

2. **Vasilache V.**, (2009), *Electrodepunerea nichelului și a aliajelor sale*, Editura Universității Ștefan cel Mare Suceava, ISBN 978-973-666-320-8, pag. 420

3. **Vasilache V.**, (2012), *Chimie anorganică. Îndrumar de laborator*, format electronic disponibil pe web-ul Platformei DidaTec: Proiectul "Școală universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și ingineresti", POSDRU/87/1.3/S/6089, cursant în cadrul proiectului, Universitatea Tehnică Cluj-Napoca, pag. 60

4. **Vasilache V.**, (2012), *Chimie anorganică (Curs)*, format electronic disponibil pe web site-ul Platformei DidaTec: Proiectul "Școală universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și ingineresti", POSDRU/87/1.3/S/6089, cursant în cadrul proiectului, Universitatea Tehnică Cluj-Napoca, pag.148

C. Lucrări indexate ISI/BDI publicate în ultimii 10 anii

1. Articole ISI Thomson

1. **Vasilache V.**, Gutt Gh., Vasilache T., (2008), *Electrochemical researches about influence of the additives of Watts solutions on throwing power and brightness*, Revista de Chimie, București, 59(8), p.912-919, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/VASILACHE%20V...pdf>, (FI=0,693)
2. **Vasilache V.**, Gutt Gh., Vasilache T., (2008), *Studies about electrochemical plating with zinc-nickel alloys-the influence of potential through stoichiometric composition*, Revista de Chimie, București, 59(9), p.1005-1009; 2008, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/VASILACHE%20Vio.pdf>, (FI=0,693)
3. **Vasilache V.**, Gutt S., Gutt G., Vasilache T., Filote C., Sandu I., (2009), *Studies of hardness for the electrodeposited nickel from Watts Baths with addition of polyvinyl pyrrolidone (PVP)*, Revue Roumaine de Chimie, 54(3), p.245-248, ISSN: 0035-3930, <http://web.icf.ro/rrch/>, (FI=0,418)
4. **Vasilache V.**, Gutt G., Vasilache T., Sandu I., (2009), *Studies Concerning Nickel Electrodeposition from Watts bath with Addition of PolyvinylPyrolidone (PVP)*, Revista de Chimie, București, 60(1), p.15-19, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/VASILACHE%20Vio.pdf>, (FI=0,693)
5. **Vasilache V.**, Gutt S., Gutt G., Vasilache T., Sandu I., Sandu G.I., (2009), *Determination of the Dimension of Crystalline Grains of Thin Layers of Zinc - Nickel Alloys Electrochemically Deposited*, Metalurgia International, vol.XIV, no.3, p.49-53, ISSN 1582-2214, http://www.metalurgia.ro/metalurgia_int.html, (FI=0.173)
6. **Vasilache V.**, Gutt S., Gutt G., Vasilache T., (2010), *Studies about magneto-optic kerr effect on electrodeposited nickel layers*, Revista de Chimie, București, 61(5), pag. 471-474, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/VASILACHE%20V.pdf%205%2010.pdf>, (FI=0,693)
7. Matei E., Enculescu I., **Vasilache V.**, Teodorescu C.M., (2010), *Cobalt doped ZnO prepared by electrochemistry: chemistry, morphology, and magnetism*, Phys.Status Solidi A, 207(11), pg.2517-2522, ISSN 1862-6300, <http://www.infim.ro/content/cobalt-doped-zno-prepared-electrochemistry-chemistry-morphology-and-magnetism-0>, (FI=1.463)
8. **Vasilache V.**, Filote C., Cretu M.C., Sandu I., Coisin V., Vasilache T., Maxim C., (2012), *Monitoring of groundwater quality in some vulnerable areas in Botosani county for nitrates and nitrites based pollutants*, Environmental Engineering and Management Journal, vol.11(2), pag.471-481, ISSN: 1582-9596, http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol11/no2/30_729_Vasilache_11.pdf, (FI=1.435)
9. Vasilache T., Stamate M., Sandu I., Lazar G., **Vasilache V***, (2012), *Influence of Working Parameters on Some Properties of TiO₂ Thin Layers Deposited through Sputtering Method*, 63(11), p.1116-1119, Revista de Chimie, București, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/VASILACHE%20T.pdf%2011%2012.pdf>, (FI=0.677)
10. **Vasilache V.**, Apostol N.G., Lungu A., Macovei D., Teodorescu C.M., (2012), *Manganese-based room temperature ferromagnetism in gallium arsenide*, Optoelectronics And Advanced Materials – Rapid Communications Vol. 6, No. 11-12, Nov. – Dec. 2012, p. 1054 - 1060, ISSN:1842-6573, <http://www.infim.ro/user/290/papers?page=1>, (FI=0,304)
11. Preda N., Enculescu M., Zgura I., Socol M., Matei E., **Vasilache V.**, Enculescu I., (2013), *Superhydrophobic properties of cotton fabrics functionalized with by electroless deposition*, Materials Chemistry and Physics, 138, p.253-261 (FI = 2,385), ISSN: 0254-0584, <http://www.sciencedirect.com/science/journal/02540584/138/1>, (FI=2.385)
12. **Vasilache V.**, Lungu G.A., Logofatu C., Medianu R.V., Teodorescu C.M., (2013), *Ferromagnetism and reactivity of Fe deposited on GaAs(001) by magnetron sputtering*, Digest Journal of Nanomaterials and

Biostructures, Vol. 8, No. 1, January - March 2013, p. 255 - 261, ISSN 1842 - 3582, <http://www.chalcogen.infirm.ro/digest.html>, (FI=1.2)

13. **Vasilache V.**, Moldoveanu C., Fărtăiş L., Rîşca M.I., (2014), *Effect of Some New Imidazole Derivatives on Wheat (Triticum Aestivum) Germination*, Revista de Chimie, Bucureşti, 65 (2), p.177-180, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/VASILACHE%20VIOLETA.pdf%202%2014.pdf> (FI = 0,677)

14. Moldoveanu C., **Vasilache V.**, Risca I.M., (2015), *Biological Effects of Some New Imidazole Derivatives on Spruce (Picea Abies) Germination*, 66 (1), p.104-108, Revista de Chimie, Bucureşti, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/MOLDOVEANU%20C.pdf%201%2015.pdf>, (FI=0,693)

15. Danac R., Daniloaia T., Antoci V., **Vasilache V.**, Mangalagiu I., (2015), *Design, Synthesis and Antimycobacterial Activity of Some New Azaheterocycles: Phenanthroline with p-halo-benzoyl Skeleton. Part V*, Letters in Drug Design & Discovery, 12, p.14-19, <http://archive.li/kFyd7>, (FI=0,974)

16. Marusic G., Sandu I., **Vasilache V.**, Filote C., Sevcenco N., Cretu M.-A. (2015), *Modeling of Spacio-temporal Evolution of Fluoride Dispersion in "River-type" Systems*, REV. CHIM. (Bucharest), 66 (4), pag.503-506, <http://www.revistadechimie.ro/pdf/MARUSIC%20G.pdf%204%2015.pdf>, (FI=0,956)

17. Mantu D., Antoci V., **Vasilache V.**, Luca C.M.,(2016), *Structure and anticancer activity of some bis-pyridazine derivatives*,67(1), p. 127-130, Revista de Chimie, Bucureşti, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/MANTU%20D%201%2016.pdf>, (FI=0,956)

18. Ciobanu C.I., Drochioiu G., Carlescu I., Lisa G., Antoci V., **Vasilache V.**, Scutaru D., (2016), *Thermal behavior of some bent-core resorcinol derivatives with azo-Type spacers and variable flexible chain*, Letters in Organic Chemistry, Volume 13, Issue 2, 1 February 2016, Pages 156-161, <http://benthamsience.com/journals/letters-in-organic-chemistry/volume/13/issue/2/page/156/>, (FI=0,756)

19. Zbancioc Gh., Moldoveanu C., Humelnicu I., **Vasilache V.**, Mangalagiu I.I.,(2016), *Pyridine/quinoline derivates bearing a imidazole/ benzimidazole moiety: a LC-MS approach of structure determination*, 67(8), p.1516-1519, Revista de Chimie, Bucureşti, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/ZBANCIOC%208%2016.pdf>, (FI=0,956)

20. Antoci V., Humelnicu I., **Vasilache V.**, Mantu D., (2016), *Synthesis, structure and biological activity of some hybrid benzimidazole/quinoline derivatives*, 67(9), p.1713-1716, Revista de Chimie, Bucureşti, ISSN 0034-7752, <http://www.revistadechimie.ro/pdf/ANTOCI%20V%209%2016.pdf>, (FI=1,23)

21. Mantu D., Antoci V., Nicolescu A., Deleanu C., **Vasilache V.**, Mangalagiu I.I., (2017), *Synthesis, stereochemical studies and antimycobacterial activity of new acetylhydrazines pyridazinone*, Curr. Org. Synth., 14(10), 112-119 (FI=2.05)

22. Humelnicu I., **Vasilache V***,(2017), *Synthesis and Structure of a New class of Fused Heterocycle with Pyridazino-triazine Skeleton*, Rev. Chim (Bucharest), 68 (6), 1159-1162 <http://www.revistadechimie.ro/pdf/3%20HUMELNICU%206%2017.pdf>, (FI=1,23)

23. Olaru A., **Vasilache V.**, Danac R., Mangalagiu I.I., (2017), *Antimycobacterial activity of nitrogen heterocycles derivatives: 7-(pyridine-4-yl)- indolizine derivatives. Part VII, J. Enzym. Inh. Med. Ch.*, 32(1), 1291-1298 <https://www.ncbi.nlm.nih.gov/pubmed/29072097> (FI=4.28)

24. **Vasilache V.**, Cretu M-A., Sandu I., Risca M.I., Vasilache T., (2017), *A statistical study about photocatalytic properties of titania crystals deposited by sputtering*, Rev. Chim (Bucharest) (2017), 68 (7), 1578-1580, <http://www.revistadechimie.ro/pdf/35%20VASILACHE%207%2017.pdf> (FI=1,23)

25. **Vasilache V.**, Cretu A.M., Pascu L.F., Risca M., Ciornea E., Maxim C., Sandu I.G., Ciobanu C.I., (2015), *Dehydrogenases activity In sludge samples of Suceava river*, International Journal Of Conservation Science, 6, (1), pag. 93-98, <http://www.ijcs.uaic.ro/public/content61.pdf>, https://apps.webofknowledge.com/Search.do?product=WOS&SID=W2XHELNBNXnNN5KhgN2n&search_mode=GeneralSearch&prID=fa13ebd4-a93f-405f-a029-2cd247c2b449

26. **Vasilache V.**, Gutt S., Rusu O.E., Vasilache T., Sasu G., Gutt G., (2010), *Studies regarding the eutrophication of the Negreni reservoir in Botosani county*, International Journal Of Conservation Science, Vol. I(1), pg.40-47, ISSN 2067-533X, http://www.ijcs.uaic.ro/public/IJCS-15-09_Vasilache.pdf, https://apps.webofknowledge.com/Search.do?product=WOS&SID=W2XHELNBXnNN5KhgN2n&search_mode=GeneralSearch&prID=fa13ebd4-a93f-405f-a029-2cd247c2b449

Articole in volume indexate ISI proceedings

27. Vasilache T., Gutt S., **Vasilache V.**, Gutt G., (2010), *Studies regarding nickel electrodeposition from Watts bath with addition of polyvinylpyrrolidone and sodium lauryl sulfate*, 19-th International Conference on Metallurgy and Materials May 18-20 th 2010 Roznov pod Rodhostem, Czech Republic, EU, ISBN 978-0-87294-15-4, pg. 172, <http://www.metal2010.com/en/>, https://apps.webofknowledge.com/Search.do?product=WOS&SID=W2XHELNBXnNN5KhgN2n&search_mode=GeneralSearch&prID=fa13ebd4-a93f-405f-a029-2cd247c2b449

28. **Vasilache V.**, Gutt S., Vasilache T., Gutt G., (2010), *The influence of working parameters against composition of zinc-cobalt alloy co-deposited layers*, 19-th International Conference on Metallurgy and Materials May 18-20 th 2010 Roznov pod Rodhostem, Czech Republic, EU, ISBN 978-0-87294-15-4, pg. 173, <http://www.metal2010.com/en/>, https://apps.webofknowledge.com/Search.do?product=WOS&SID=W2XHELNBXnNN5KhgN2n&search_mode=GeneralSearch&prID=fa13ebd4-a93f-405f-a029-2cd247c2b449

29. **Vasilache V.**, Popa C., Vasilache T., (2012), *Studies about Structure and Some Physical Properties of Nickel and Zinc-Nickel Alloy Layers Electrochemically Deposited*, 21-th International Conference on Metallurgy and Materials May 23-25 th 2012 Brno, Czech Republic, EU, <http://metal2012.tanger.cz/files/proceedings/02/reports/458.pdf>, https://apps.webofknowledge.com/Search.do?product=WOS&SID=W2XHELNBXnNN5KhgN2n&search_mode=GeneralSearch&prID=fa13ebd4-a93f-405f-a029-2cd247c2b449

Lucrări indexate BDI

30. **Vasilache V.**, Vasilache T., (2007), *Studiul procesului de nichelare prin metoda spectroscopiei de impedanță electrochimică*, Lucrări Științifice. USAMV Iași Seria Agronomie, vol.50(2), pg.86-92, ISSN 1454-7414 , http://www.revagrois.ro/PDF/2007s_86.pdf

31. **Vasilache V.**, (2009), *Advanced characterization methods for nickel layers electrochemically deposited - reflectance of the films*, Annals of the Suceava University, Food Engineering, VIII(2), pg. 37-40, ISSN 1842-4597, http://www.fia.usv.ro/fiajournal/en/index_en.html

32. Gutt S., Gutt G., **Vasilache V.**, (2010), *Messung und Bestimmung wichtiger Größen und Indikatoren bei galvanischen Prozessen*, Teil1, Galvanotechnik, Germania, 101(2), pg.268-272, ISSN. 0016-4232 [Google], <http://cat.inist.fr/?aModele=afficheN&cpsid=22573318>

33. Vasilache T., Gutt S., Sandu I., **Vasilache V.**, Gutt G., Rișca I.M., Sandu A.V., (2010), *Electrochemical Mechanism of Nickel and Zinc-Nickel Alloy Electrodeposition*, Recent Patents on Corrosion Science, No.2, pg.1-5, ISSN: 1877-6108, <https://benthamopen.com/contents/pdf/RPTCS/RPTCS-2-1.pdf>

34. **Vasilache V.**, (2010), *The present state of researches regarding electroplating problems*, Food and Environment Safety-Journal of Faculty of Food Engineering, Suceava, IX(3), pg. 50-59, ISSN 2068-6609, <http://www.fia.usv.ro/avizier/biotehnologii/abstracte/a2.pdf>

35. **Vasilache V.**, Gutt S., Sandu I., Gutt Gh., Vasilache T., (2010), *Electrodeposition and Characterization of*

Zinc-Cobalt Alloy Coatings, The Annals of "Dunarea de Jos" University of Galati. Fascicle IX. Metallurgy and Materials Science N 0 . 1 – 2010, ISSN 1453 – 083X, p.37-40, http://s3.amazonaws.com/academia.edu.documents/41205987/555df03a08ae9963a1140cff.pdf20160115-199086eeqz0.pdf?AWSAccessKeyId=AKIAIWOWYYGZ2Y53UL3A&Expires=1496080080&Signature=uBEsRHeE4XINTRNQT4%2FsriWTZD4%3D&response-content-disposition=inline%3B%20filename%3DMelting-Casting_Plant_Using_Vibrating_of.pdf#page=36

36. **Vasilache V.**, Popa C., Filote C., Cretu M.A., Benta M., (2011), *Nanoparticles applications for improving the food safety and food processing*, Recent, Vol. 12, No.1(31), pg. 77-81, ISSN 1582-0246, http://www.recentonline.ro/031/Vasilache_R31.pdf

37. **Vasilache V.**, Cretu M. A., Sandu I., Vasilache T., (2011), *Pesticides use in Botosani County. Regional informations and perspectives*, The Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, Year XXIX(XXXIV), Special Issue, pg. 175-179, ISSN 1453-083X, [Google]

38. Benta M.D., Mihai C., Pearsica M., Strambu C., **Vasilache V.**, (2011), *Ways of working the data obtained through atomic force microscopy technology*, Review of the Air Force Academy, The Scientific Informative Review, Brasov, vol. IX, No.1(18), pg. 21-25, ISSN-L 1842-9238 , http://www.afahc.ro/ro/revista/Nr_1_2011/nr_1_2011.pdf#page=22

39. **Vasilache V.**, Popa C., Vasilache T., (2011), *New materials for photocatalytic purification of air – a review*, Food and Environment Safety - Journal of Faculty of Food Engineering, Ștefan cel Mare University, X(4), pg. 42-48, ISSN 2068-6609, http://www.fia.usv.ro/fiajournal/files/Journal2011/2011_4/single/7/7_abs.pdf

40. **Vasilache V.**, Gutt S., Gutt G., Vasilache T., (2009), *EQCM uses for the study in situ of nickel and zinc-nickel alloy electroplating process*, Buletinul Institutului Politehnic din Iași, Tomul LV(LIX), Fasc.4, Secția Știința și Ingineria Materialelor, pg.461-467, ISSN: 1453-1690, <http://www.sim.tuiasi.ro/wp-content/uploads/2015/03/BIPI-4-2009.pdf>

A. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referințe (neindexate)

- Reviste

1. Marusic G., Sandu I., Moraru V., Filote C., Ciufudean C., Beșliu V., **Vasilache V.**, Stefanescu B., Șevcenco N., (2012), *Fluoride dispersion modeling for "River-type" systems*, Meridian Ingineresc, nr.4, pag. 28-32, ISSN 1683-853X, [Google Academic], http://utm.md/meridian/2012/MI_4_2012/5_Art_Marusic_G_Fluoride.pdf

2. Benta D.M., Strambu C., Nedelcu St., **Vasilache V.**, (2011), *The description of metallic layers throung sensor-surface interaction*, The 13-th International Conference of Stiintific Papers AFASES 2011, 26-28 May, Brasov, pg.856-860, ISSN 2247-3173, ISSN-L 247-3173, http://www.afahc.ro/ro/afases/2011/eng/4.3/Benta_Strimbu_Nedelcu_Vasilache.pdf

3. **Vasilache V.**, Crețu A-M., Sandu I., (2014), *Evaluation of the methodology of case study used at the lessons of chemistry*, Rev. Tehnoscopia, 2(11),2014, p.60-70, ISSN 1857-4904, Chișinău , Republica Moldova, [http://libruniv.usarb.md/publicatie/tehnoscop.files/tehnoscopia2\(11\)2014.pdf](http://libruniv.usarb.md/publicatie/tehnoscop.files/tehnoscopia2(11)2014.pdf)

4. **Vasilache V.**, Gutt S., Gutt G., Vasilache T., *Influence of polyvinilpyrrolidone and sodium lauryl sulfate as additives in Watts baths against nickel electrodeposition*, International Conference of Applied Sciences. Chemistry and Chemical Engineering, CISA 2010, 8-10 aprilie 2010, Slanic Moldova, Bacau, ISSN 2066-7817, p.305-311, [Google]

- Selecție cu maximum 20 lucrări în volume de conferințe

1. **Vasilache V.**, Mantu D., Antoci V., Mangalagiu I.I., (2017), *Polyfused azaheterocycles compounds of potential interest in leishmaniasis*, 4th COST Action CM1307 Conference / SOCEPA / SEFIG Joint Meeting "Antiparasitic Chemotherapy for Human and Veterinary Use", October 25-27, Laussane, Elvetia. Pag. 37
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B. Brevete obținute în întreaga activitate

• Internationales:

1. Patent **MD 4298 (B1)**: *Process for water treatment of ground and surface waters*,

Inventor(s): Sandu I.(UAIC-RO), Cretu A.M.(UAIC-RO), Lupașcu T.(ASM-MD), Sielienci Joseph-Marie(CM), Koume I.K.(CM), Guifo K.J.(CM), Sandu A.V.(TUIASI), **Vasilache V.**(USV-RO), Sandu I.G.(TUIASI), Vasilache V.(UAIC-RO), <http://agepi.gov.md/pdf/publishing/bopi/bopi-08-2014/BOPI-Inven-08-2014-.pdf>, <http://worldwide.espacenet.com/searchResults?compact=false&ST=singleline&query=Vasilache+violeta&locale>

[=en EP&DB=worldwide.espacenet.com](http://worldwide.espacenet.com)

2. Patent **MD MD4106 (B1)**: Process for the obtaining of an injection oil silver nanodispersion

Inventor(s): Hagiu B. A. [Ro]; Sandu I. [Ro]; Lupascu T. [Md]; **Vasilache V. [Ro]**; Tura V. [Ro]; Mangalagiu I.[Ro]; Sandu A. V. [Ro]; Gonchiar V. [Md];

http://worldwide.espacenet.com/searchResults?compact=false&ST=singleline&query=Vasilache+Violeta&locale=en_EP&DB=worldwide.espacenet.com

• **Nationale**

1. Patent Number(s): **RO125793 (B1)** *Galvanic cell for automatically measuring the lustre and the thickness of a layer*, Inventor(s): Gutt Gh., Gutt S., **Vasilache V.**, Gutt A.

http://worldwide.espacenet.com/searchResults?compact=false&ST=singleline&query=Vasilache+Violeta&locale=en_EP&DB=worldwide.espacenet.com

2. Patent Number(s): **RO125457 (B1)**, *Process for the micro crystalline phosphate-coating of iron-based metal pieces* Inventor(s): Bejinariu C., Sandu I., Sandu I.G., Predescu C., Munteanu C., Sandu A.V., **Vasilache V.**, Bejinariu M.G.

http://worldwide.espacenet.com/searchResults?compact=false&ST=singleline&query=Vasilache+Violeta&locale=en_EP&DB=worldwide.espacenet.com

3. Patent Number(s): **RO125456 (B1)** *Process for micro-crystalline phosphate-coating of ferrous metal pieces*

Inventor(s): Bejinariu C., Sandu I., **Vasilache V.**, Sandu I.G., Bejinariu M.G., Sandu A.V.

http://worldwide.espacenet.com/searchResults?compact=false&ST=singleline&query=Vasilache+Violeta&locale=en_EP&DB=worldwide.espacenet.com

4. Patent Number(s): **RO127723 (B1)**, *Procedeu de obținere a unei nanodispersii uleioase cu capacitate regenerativă*, Inventor(s): Hagiu B.A., Sandu I., **Vasilache V.**, Țura V., Mangalagiu I.I., Mungiu O.C., Filote C., Sandu A.V.,

https://worldwide.espacenet.com/searchResults?ST=singleline&locale=en_EP&submitted=true&DB=&query=Vasilache+Violeta&Submit=Search

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Semnătura: