

Lista de lucrări

Teza de doctorat: *Noi Polimeri de Coordinație Încorporând Liganzi Polipirazolici Rígizi și Flexibili cu Metale Tranzitionale. Microporozitate, Rezistență Termică, Fotoluminiscentă și Acțiune Antibacteriană* (2010 – 2013, Ciclul al XXV-lea). Departamentul de Științe Chimice, Universitatea din Camerino, Italia. Conducători: Prof. dr. Claudio Pettinari și Prof. dr. Fabio Marchetti. <https://pubblicazioni.unicam.it/handle/11581/401708?mode=full.1041>

1. Publicații științifice

1.1. Cărți și/sau capitole de carte

1. **Aurel Tabacaru, Simona Butan**, *Chimie generală: note de seminar și exerciții*, Galați University Press, Galați, Romania, **2021**, ISBN 978-606-696-212-4.
2. **Aurel Tabacaru**, *Coordination polymers incorporating poly(pyrazole)-type ligands*, Lambert Academic Publishing, Saarbrücken, Germany, **2017**, ISBN 978-3-330-06582-6.

1.2. Articole ISI

1. Nertil Khaferaj, **Aurel Tabacaru**, Claudio Pettinari, Kostiantyn V. Domasevitch, Simona Galli, „*Synthesis and structural characterization of new metal azolate/carboxylate frameworks incorporating the 1-H-pyrazol-3,4,5-tricarboxylate ligand*”, *Inorganica Chimica Acta* **2023**, 544, 121236. DOI: 10.1016/j.ica.2022.121236. <https://www.sciencedirect.com/science/article/pii/S0020169322004480?via%3Dihub>
2. **Aurel Tabacaru**, Simona Butan, Romica Cretu, „*Colloidal matter separation of industrial wastewaters from Galati city area by semipermeable membranes*”, *Ovidius University Annals of Chemistry* **2022**, 33(1), 56-63. DOI: 10.2478/auoc-2022-0008. <http://anale-chimie.univ-ovidius.ro/wp-content/uploads/2022/04/Article-8-2022.pdf>
3. Mihaela Cudalbeanu, David Peitinho, Francisco Silva, Rosa Marques, Teresa Pinheiro, Ana Ferreira, Fernanda Marques, António Paulo, Catarina Soeiro, Sílvia Andreia Sousa, Jorge Humberto Leitão, **Aurel Tabacaru**, Sorin Marius Avramescu, Rodica Mihaela Dinica, Maria Paula Cabral Campello, „*Sono-biosynthesis and characterization of AuNPs from Danube Delta Nymphaea alba root extracts and their biological properties*”, *Nanomaterials* **2021**, 11(6), 1562. DOI: 10.3390/nano11061562. <https://www.mdpi.com/2079-4991/11/6/1562>
4. Federica Bertolotti, **Aurel Tabacaru***, Viorica Musat, Nicolae Tigau, Antonio Cervellino, Norberto Masciocchi, Antonietta Guagliardi, „*Band gap narrowing in silane-grafted ZnO nanocrystals. A comprehensive study by wide-angle X-ray total scattering methods*”, *Journal of Physical Chemistry C* **2021**, 125(8), 4806-4819. DOI: 10.1021/acs.jpcc.0c10502. <https://pubs.acs.org/doi/abs/10.1021/acs.jpcc.0c10502>
5. Mariana Busila, **Aurel Tabacaru***, Viorica Musat, Bogdan Stefan Vasile, Ionela Andreea Neacsu, Teresa Pinheiro, Catarina Roma-Rodrigues, Pedro V. Baptista, Alexandra R. Fernandes, António P. Matos, Fernanda Marques, „*Size-dependent biological activities of fluorescent organosilane-modified zinc oxide nanoparticles*”, *Journal of Biomedical Nanotechnology* **2020**, 16(2), 137-152. DOI: 10.1166/jbn.2020.2882. <https://www.ingentaconnect.com/content/asp/jbn/2020/00000016/00000002/art00001>
6. **Aurel Tabacaru***, Rais Ahmad Khan, Giulio Lupidi, Claudio Pettinari, „*Synthesis, characterization and assessment of the antioxidant activity of Cu(II), Zn(II) and Cd(II) complexes derived from scorpionate ligands*”, *Molecules* **2020**, 25(22), 5298. DOI: 10.3390/molecules25225298. <https://www.mdpi.com/1420-3049/25/22/5298/htm>
7. **Aurel Tabacaru**, Andreea Veronica Botezatu Dediu, Rodica Mihaela Dinica, Geta Carac, Vasile Basliu, Maria Paula Cabral Campello, Francisco Silva, Catarina I.G. Pinto, Joana F. Guerreiro, Marta Martins, Filipa Mendes, Fernanda Marques, „*Biological properties of a new mixed lanthanide(III) complex incorporating a dipyridinium ylide*”, *Inorganica Chimica Acta* **2020**, 506, 119517. DOI: 10.1016/j.ica.2020.119517. <https://www.sciencedirect.com/science/article/pii/S002016931931655X?via%3Dihub>
8. Nertil Khaferaj, **Aurel Tabacaru***, Marco Moroni, Ganna A. Senchyk, Kostiantyn V. Domasevitch, Claudio Pettinari, Simona Galli, „*New coordination polymers of zinc(II), copper(II) and cadmium(II) with 1,3-bis(1,2,4-triazol-4-yl)adamantane*”, *Inorganics* **2020**, 8(11), 60. DOI: 10.3390/inorganics8110060. <https://www.mdpi.com/2304-6740/8/11/60>




9. **Aurel Tabacaru***, Claudio Pettinari, Mariana Busila, Rodica Mihaela Dinica, „*New antibacterial silver(II) coordination polymers based on a flexible ditopic pyrazolyl-type ligand*”, *Polymers* **2019**, 11(10), 1686. DOI: 10.3390/polym11101686. <https://www.mdpi.com/2073-4360/11/10/1686>
10. **Aurel Tabacaru**, Valentina Colombo, Constantin Apetrei, „*Development of sensor based on copper(II) thiocyanate pyridine polymeric complex for detection of catechol*”, *IEEE Sensors Journal* **2019**, 19(22), 10198-10206. DOI: 10.1109/JSEN.2019.2927283. <https://ieeexplore.ieee.org/document/8756163>
11. **Aurel Tabacaru**, Andreea Veronica Dediu Botezatu, Georgiana Horincar, Bianca Furdui, Rodica Mihaela Dinica, „*Green accelerated synthesis, antimicrobial activity and seed germination test of quaternary ammonium salts of 1,2-bis(4-pyridyl)ethane*”, *Molecules* **2019**, 24(13), 2424. DOI: 10.3390/molecules24132424. <https://www.mdpi.com/1420-3049/24/13/2424>
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13. Rais Ahmad Khan, **Aurel Tabacaru***, Farman Ali, Bon H. Koo, „*Anticancer and antimicrobial properties of inorganic compounds/nanomaterials*”, *Bioinorganic Chemistry and Applications* **2019**, 2019, ID 6019632. DOI: 10.1155/2019/6019632. <https://www.hindawi.com/journals/bca/2019/6019632/>
14. **Aurel Tabacaru**, Claudio Pettinari, Simona Galli, „*Coordination polymers and metal-organic frameworks built up with poly(tetrazolate) ligands*”, *Coordination Chemistry Reviews* **2018**, 372, 1-30. DOI: 10.1016/j.ccr.2018.05.024. <https://www.sciencedirect.com/science/article/pii/S0010854518301279>
15. Andreea Carac, Rica Boscencu, Rodica Mihaela Dinica, Joana Guerreiro, Francisco Silva, Fernanda Marques, Maria Paula Cabral Campello, Calin Moise, Oana Brincoveanu, Marius Enachescu, Geta Carac, **Aurel Tabacaru***, „*Synthesis, characterization and antitumor activity of two new dipyrindinium ylide based lanthanide(III) complexes*”, *Inorganica Chimica Acta* **2018**, 480, 83-90. DOI: 10.1016/j.ica.2018.05.003. <https://www.sciencedirect.com/science/article/pii/S0020169317317541>
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17. Claudio Pettinari, **Aurel Tabacaru**, Simona Galli, „*Coordination polymers and metal-organic frameworks based on poly(pyrazole)-type ligands*”, *Coordination Chemistry Reviews* **2016**, 307, 1-31. DOI: 10.1016/j.ccr.2015.08.005. <http://www.sciencedirect.com/science/article/pii/S0010854515002751>
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19. Elisa Lavigna, Nertil Xhaferaj, **Aurel Tabacaru***, Marco Lamperti, Luca Nardo, Massimo Mella, Claudio Pettinari, Simona Galli, „*Investigating the structural features and spectroscopic properties of bis(tetrazolato)-based coordination polymers*”, *Crystal Growth & Design* **2016**, 16(11), 6390-6404. DOI: 10.1021/acs.cgd.6b01056. <http://pubs.acs.org/doi/abs/10.1021/acs.cgd.6b01056>
20. **Aurel Tabacaru**, Viorica Musat, Rodica M. Dinica, Constantin Gheorghies, „*Catalytic effect of zinc oxide nanoparticles prepared through assisted modification with a diquaternary salt of bis(pyridinium)*”, *Revista de Chimie (Bucharest)* **2016**, 67(8), 1508-1512. http://www.revistadechimie.ro/article_eng.asp?ID=5128
21. **Aurel Tabacaru**, Viorica Musat, Nicolae Tigau, Bogdan Stefan Vasile, Vasile-Adrian Surdu, „*Vinyltrimethoxysilane-modified zinc oxide quantum dots with tuned optical properties*”, *Applied Surface Science* **2015**, 359, 766-773. DOI: 10.1016/j.apsusc.2015.10.175. <http://www.sciencedirect.com/science/article/pii/S0169433215025945>
22. **Aurel Tabacaru**, Simona Galli, Claudio Pettinari, Norberto Masciocchi, Thomas M. McDonald, Jeffrey R. Long, „*Ni(II) and Cu(I,II)-based metal-organic frameworks incorporating an extended tris-pyrazolate linker*”, *CrystEngComm* **2015**, 17, 4992-5001. DOI: 10.1039/C5CE00561B. <http://pubs.rsc.org/en/Content/ArticleLanding/2015/CE/c5ce00561b#divAbstract>
23. **Aurel Tabacaru***, Mariana Busila, Viorica (Ghisman) Plescan, Viorica Musat, „*Photocatalytic study of organo-silane modified zinc oxide nanoparticles*”, *Ovidius University Annals of Chemistry* **2015**, 26(2), 61-66. DOI: 10.1515/auoc-2015-0012. <https://content.sciendo.com/view/journals/auoc/26/2/article-p61.xml>



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25. Graham A. Bowmaker, John V. Hanna, Scott P. King, Fabio Marchetti, Claudio Pettinari, Adriano Pizzabiocca, Brian W. Skelton, Alexandre N. Sobolev, **Aurel Tabacaru**, Allan H. White, „Complexes of copper(I) thiocyanate with monodentate phosphine and pyridine ligands and the P(N)-donor diphenyl(2-pyridyl)phosphine", *European Journal of Inorganic Chemistry* **2014**, 6104-6116. DOI: 10.1002/ejic.201402791. <http://onlinelibrary.wiley.com/doi/10.1002/ejic.201402791/abstract>
26. **Aurel Tabacaru***, Claudio Pettinari, Fabio Marchetti, Simona Galli, Norberto Masciocchi, „Bis(pyrazolato)-based MOFs fabricated with 4,4'-bis((3,5-dimethyl-1H-pyrazol-4-yl)methyl)biphenyl and late transition metals", *Crystal Growth & Design* **2014**, 14, 3142-3152. DOI: 10.1021/cg500459v. <http://pubs.acs.org/doi/abs/10.1021/cg500459v>
27. Simona Galli, Carlotta Giacobbe, **Aurel Tabacaru**, Nertil Xhaferaj, Claudio Pettinari, „Unsolvated ruthenium(II) dichloride: the beta polymorph", *Journal of Molecular Structure* **2014**, 1067, 233-238. DOI: 10.1016/j.molstruc.2014.03.046. <http://www.sciencedirect.com/science/article/pii/S0022286014003147>
28. **Aurel Tabacaru***, Claudio Pettinari, Ivan Timokhin, Fabio Marchetti, Francisco Carrasco-Marín, Francisco José Maldonado-Hódar, Simona Galli, Norberto Masciocchi, "Enlarging an isorecticular family: 3,3',5,5'-tetramethyl-4,4'-bipyrazolato-based porous coordination polymers", *Crystal Growth & Design* **2013**, 13, 3087-3097. DOI: 10.1021/cg400495w. <http://pubs.acs.org/doi/abs/10.1021/cg400495w>
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32. Graham A. Bowmaker, John V. Hanna, Robert D. Hart, Peter C. Healy, Scott P. King, Fabio Marchetti, Claudio Pettinari, Brian W. Skelton, **Aurel Tabacaru**, Allan H. White, "Mechanochemical and solution synthesis, X-ray structure and IR and ³¹P solid state NMR spectroscopic studies of copper(I) thiocyanate adducts with bulky monodentate tertiary phosphine ligands", *Dalton Transactions* **2012**, 41, 7513-7525. DOI: 10.1039/c2dt30579h. <http://pubs.rsc.org/en/Content/ArticleLanding/2012/DT/c2dt30579h#divAbstract>
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36. **Aurel Tabacaru***, Claudio Pettinari, Norberto Masciocchi, Simona Galli, Fabio Marchetti, Mariglen Angjellari, „Pro-porous coordination polymers based on 1,4-bis((3,5-dimethyl-1H-pyrazol-4-yl)methyl)benzene with late transition metals", *Inorganic Chemistry* **2011**, 50(22), 11506-11513. DOI: 10.1021/ic2013705. <http://pubs.acs.org/doi/abs/10.1021/ic2013705>

1.3. Articole BDI

1. Nertil Xhaferaj, **Aurel Tabacaru***, Claudio Pettinari, „Synthesis and characterization of new silver(I) coordination polymers incorporating a bis(triazolyl)-type ligand", *Annals of the "Dunarea de Jos" University of Galati, Romania, Fascicle II – Mathematics, Physics, Theoretical Mechanics, Year X (XLI)* **2018**, No. 2, 128-134, ISSN 2067-2071.


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2. Orleans Ngomo, Joseph Sieliechi, Jean Bosco Tchatchueng, Richard Kamga, **Aurel Tabacaru**, Rodica Dinica, Mirela Praisler, „*The effect of chlorhydric acid activation on the physico-chemical and rheological properties of a kaolinite*”, *Int. J. Sci. Eng. Technol.* **2014**, 3(7), 876-879.
<https://www.indianjournals.com/ijor.aspx?target=ijor:ijset1&volume=3&issue=7&article=010>
3. Claudio Pettinari, Corrado di Nicola, **Aurel Tabacaru***, Rodica Dinica, „*Synthesis of the [Cu(NCS)(py)₂(PPh₃)] coordination compound with photoluminescent properties*”, The Annals of the “Dunarea de Jos” University of Galati, Romania, Fascicle II – Mathematics, Physics, Chemistry, Informatics (CD-ROM), Year III (XXXII) **2009**, 195-199, ISSN 2067-2071.

1.4. Articole publicate în volume de conferințe internaționale

1. Orleans Ngomo, Joseph Marie Sieliechi, Jean Bosco Tchatchueng, Richard Kamga, **Aurel Tabacaru**, Rodica Dinica, Mirela Praisler, „*Differences between structural, textural and rheological properties of two Cameroonian mineral clays used as cosmetic mask*”. Proceedings of the 2014 International Conference on Chemistry and Chemical Engineering (CCE 2014), 17-21 July **2014**, Santorini, Greece. Published in: *Advances in Environmental Sciences, Development and Chemistry*, pp 425-431, ISBN: 978-1-61804-239-2.
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2. Participări la conferințe naționale și internaționale

1. **Aurel Tabacaru**, Nertil Xhaferaj, Claudio Pettinari, Kostiantyn V. Domasevitch, Simona Galli, „*New Co(II) and Cd(II) azolate/carboxylate frameworks*” (poster presentation), A XXXVI-a Conferință Națională de Chimie, 4-7 October **2022**, Călimănești-Căciulata, Vâlcea, Romania. Book of abstracts, pag. 94.
2. Nertil Xhaferaj, **Aurel Tabacaru**, Claudio Pettinari, Kostiantyn V. Domasevitch, Simona Galli, „*Synthesis and structural characterization of new metal azolate/carboxylate frameworks incorporating the 1-H-pyrazol-3,4,5-tricarboxylate ligand*” (oral presentation), Scientific Conference of Doctoral Schools (SCDS-UDJG), 10th Edition, 9-10 June **2022**, Galati, Romania. Book of Abstracts, pag. 90.
3. **Aurel Tabacaru**, Rais Ahmad Khan, Giulio Lupidi, Claudio Pettinari, „*Evaluation of the antioxidant activity of new scorpionate complexes*” (oral presentation), Scientific Conference of Doctoral Schools (CSSD-UDJG), 9th Edition, 10-11 June **2021**, Galati, Romania. Book of Abstracts, pag. 108.
4. Andreea Veronica Dediu (Botezatu), Anna Cazanevscaia (Busuioc), **Aurel Tabacaru**, Bianca Furdui, Martine Demeunynck, Rodica Mihaela Dinica, „*Novel indolizine derivatives synthesis and the investigation of their fluorescent properties*” (oral presentation), Scientific Conference of Doctoral Schools (CSSD-UDJG), 9th Edition, 10-11 June **2021**, Galati, Romania. Book of Abstracts, pag. 109.
5. **Aurel Tabacaru**, Rodica Mihaela Dinica, Mariana Busila, Claudio Pettinari, „*New silver(I) coordination polymers with antibacterial action against Escherichia coli and Staphylococcus aureus*” (oral presentation), Polymer Science and Composite Materials Conference (Polymer Connect 2020), 26-28 February **2020**, Lisbon, Portugal. Book of Abstracts, pag. 24.
6. Raluca Maghinici, **Aurel Tabacaru**, „*New photoluminescent copper(I) thiocyanate complexes based on mixed phosphorus- and nitrogen-donor ligands*” (oral presentation), Scientific Conference of Doctoral Schools (CSSD-UDJG), 8th Edition, 18-19 June **2020**, Galati, Romania. Book of Abstracts, pag. 114.
7. **Aurel Tabacaru**, Valentina Colombo, Constantin Apetrei, „*Synthesis, characterization and electrochemical behavior of a copper(II) thiocyanate pyridine polymeric complex*” (poster presentation), 47th IUPAC World Chemistry Congress, 7-12 July **2019**, Paris, France. Abstract number: 100895. Poster number: P560. Book of Abstracts, pag. 3015.
8. **Aurel Tabacaru**, Rodica Mihaela Dinica, Mariana Busila, Claudio Pettinari, „*Novel antibacterial silver(I) coordination polymers based on a flexible bis(pyrazolyl)-type ligand*” (poster presentation), 21st Romanian International Conference on Chemistry and Chemical Engineering (RICCCE21), 4-7 September **2019**, Constanta – Mamaia, Romania.
9. **Aurel Tabacaru**, Nertil Xhaferaj, Claudio Pettinari, Simona Galli, Luca Nardo, „*Metal-organic frameworks incorporating a flexible poly(azolato)-based spacer*” (poster presentation), Scientific Conference of Doctoral Schools (CSSD-UDJG), 7th Edition, 13-14 June **2019**, Galati, Romania. Book of Abstracts, pag. 247.



10. Andreea Veronica Dediu (Botezatu), **Aurel Tabacaru**, Bianca Furdui, Rodica Mihaela Dinica, „*Novel indolizine derivatives as inhibitors of acetylcholinesterase*” (oral presentation), Scientific Conference of Doctoral Schools (CSSD-UDJG), 7th Edition, 13-14 June **2019**, Galati, Romania. Book of Abstracts, pag. 114.
11. Federica Bertolotti, **Aurel Tabacaru**, Viorica Musat, Antonio Cervellino, Norberto Masciocchi, Antonietta Guagliardi, „*A comprehensive structural and morphological characterization of ZnO nanocrystals with tunable band gap*” (poster presentation), The 3rd Joint Conference of the Italian Crystallographic Association (**AIC**) and of the Italian Synchrotron Radiation Society (**SILS**), 25-28 June **2018**, Rome, Italy. Book of Abstracts, pag. 143.
12. Georgiana Horincar, Bianca Furdui, **Aurel Tabacaru**, Rodica Mihaela Dinica, „*Green accelerated synthesis of antimicrobial quaternary ammonium salts*” (poster presentation), A XXXV-a Conferinta Nationala de Chimie cu participare internationala, 2-5 October **2018**, Calimanesti-Caciulata, Valcea, Romania. Book of abstracts, pag. 36.
13. Mariana Busila, Viorica Musat, **Aurel Tabacaru**, Boris Mahltig, „*Optical, photocatalytic and antibacterial properties of GPTMS-functionalized ZnO DQs*” (poster presentation), The 2018 Fall Meeting of the European Materials Research Society (E-MRS), Symposium L: Advances in nanoparticles: synthesis, characterization, theoretical modelling, and applications, 17-20 September **2018**, Warsaw, Poland.
14. Mirela Catalina Stan, Silvia Noaptes, Constantin Apetrei, **Aurel Tabacaru**, „*Synthesis and characterization of a pyridyl-based copper(II) thiocyanate coordination polymer*” (poster presentation), The XIVth International Conference Students for Students – „Chemistry, our superpower!”, 25-30 April **2017**, Cluj-Napoca, Romania. Book of Abstracts, pag. 116.
15. Madalina Constantinescu, George Catalin Moisi, **Aurel Tabacaru**, „*New coordination polymers built with a flexible bis(tetrazole)-type ligand*” (poster presentation), The XIVth International Conference Students for Students – „Chemistry, our superpower!”, 25-30 April **2017**, Cluj-Napoca, Romania. Book of Abstracts, pag. 114.
16. Simona Galli, **Aurel Tabacaru**, Nertil Xhaferaj, Luísa M.D.R.S. Martins, Elisabete C.B.A. Alegria, Rogério S. Chay, Carlotta Giacobbe, Armando J.L. Pombeiro, Claudio Pettinari, „*Metal Azolate/Carboxylate Frameworks as Catalyst sin Oxidative and C-C Coupling Reactions*” (oral presentation), IV Meeting of the Italian and Spanish Crystallographic Associations (MISCA), 21-25 June **2016**, Tenerife, Spain.
17. **Aurel Tabacaru**, Rodica Mihaela Dinica, Viorica Musat, „*Zinc oxide nanoparticles as catalyst in the in situ transformation of a bis(pyridinium) diquaternary salt*” (poster presentation), A XXXIV-a Conferinta Nationala de Chimie, 4-7 October **2016**, Caciulata, Romania.
18. **Aurel Tabacaru**, Rodica Mihaela Dinica, Angela Daciu, Geta Carac, „*Preparation and characterization of some lanthanide compounds with pyridinium ligands as thin films with sensing potential*” (poster presentation), A XXXIV-a Conferinta Nationala de Chimie, 4-7 October **2016**, Caciulata, Romania.
19. **Aurel Tabacaru**, Viorica Musat, Nicolae Tigau, „*Novel hybrid zinc oxide nanoparticles with tuned optical properties through organosilane surface modification*” (poster presentation), The 8th International Conference on Advanced Materials, ROCAM 2015, 7-10 July **2015**, Bucharest, Romania. Book of Abstracts, pag. 60.
20. Viorica Musat, **Aurel Tabacaru**, Mariana Busila, Nicolae Tigau, „*Hybrid ZnO-nanostructures materials with photoluminescent and antimicrobial properties*” (oral presentation), Seminarul National de Nanostiinta si Nanotehnologie, Editia a 14-a, 26 Martie **2015**, Academia Romana, Bucharest, Romania.
21. Elisa Lavigna, Nertil Xhaferaj, **Aurel Tabacaru**, Luca Nardo, Simona Galli, Claudio Pettinari, „*Transition metal-based coordination polymers with a flexible poly(azoloto) tecton: structural aspects and spectroscopic properties*” (poster presentation), 2nd ICSU/IUPAC Workshop on Crystal Engineering, August 30th – September 1st, **2015**, Como, Italy. Book of Abstracts, pag. 94.
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23. Viorica Musat, **Aurel Tabacaru**, „*Organosilane-modified zinc oxide nanoparticles with tuned optical properties*” (poster presentation), The 2015 Spring Conference of the European Materials Research Society (E-MRS), Symposium I: Semiconductor nanostructures towards electronic & opto-electronic device applications V, 11-15 May **2015**, Lille, France.
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35. **Aurel Tabacaru**, Claudio Pettinari, Riccardo Pettinari, „*Rigidity versus flexibility upon the porosity degree of new metal-organic polymeric materials*”, The 10th International Conference on Colloids and Surface Chemistry, 9-11 June **2011** (oral presentation), Galati, Romania. Book of Abstracts, pag. 48.
36. Fabio Marchetti, Corrado di Nicola, **Aurel Tabacaru**, Mariglen Angjellari, „*New Luminescent Porous MOFs*” (poster), 1st Scientific Day of the School of Science and Technology, 8 June **2011**, Camerino, Italy. Book of Abstracts, pag. 24.
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39. Alessandro Marinelli, Claudio Pettinari, Augusto Cingolani, Fabio Marchetti, Adriano Pizzabiocca, Riccardo Pettinari, Corrado Di Nicola, **Aurel Tabacaru**, Norberto Masciocchi, "Coordination Chemistry of Copper (II) and Cadmium (II) acetate with 4,4'-bipyrazolyl ligand. Construction of Supramolecular Networks" (poster), 1st International Workshop on New Hybrid Metal-Organic Materials, 16-18 Jan. **2009**, Camerino, Italy.
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41. Alessandro Marinelli, Corrado di Nicola, Claudio Pettinari, Adele Cerquetella, Norberto Masciocchi, **Aurel Tabacaru**, „Nuovi polimeri di coordinazione contenenti leganti bi-pirazolici”, Tirrenia (Pisa, Italy) 20-22 September **2009**, XXVIII Congresso Interregionale TUMA 2009, Book of Abstracts, pag. CO31.
42. **Aurel Tabacaru**, Claudio Pettinari, Corrado di Nicola, Rodica Dinica, "Photoluminescent properties of [Cu(NCS)(py)₂(PPh₃)] coordination compound" (oral presentation), 1st International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP-1), 28-29 Nov. **2009**, Galati, Romania.
43. Rodica Dinica, Bianca Furdui, Ionel Tabacaru, **Aurel Tabacaru**, "New N-heterocyclic compounds starting from substituted pyridines" (oral presentation), 1st International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP-1), 28-29 Nov. **2009**, Galati, Romania.
44. **Aurel Tabacaru**, Claudio Pettinari, Fabio Marchetti, Norberto Masciocchi, "New Metal-Organic Frameworks Based on Copper(II) and Zinc(II) with 4,4'-bipyrazolyl ligand" (poster), 1st International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP-1), 28-29 Nov. **2009**, Galati, Romania.
45. **Aurel Tabacaru**, Steluta Gosav, "ANN system and PCA method for the identification of illicit amphetamines using molecular descriptors database" (poster), 1st International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP-1), 28-29 Nov. **2009**, Galati, Romania.
46. **Aurel Tabacaru**, Rodica Dinica, Claudio Pettinari, Corrado di Nicola, „Photoluminescent properties of new coordination compounds with copper(I)" (poster), The 9th International Conference on Colloids and Surface Chemistry, 28-30 May **2008**, Galati, Romania. ISBN 973-8316-84-7.

3. Proiecte de cercetare

3.1. Director de proiecte de cercetare

[1] Proiect de cercetare postdoctorala "Polimeri de coordinare pe bază de argint pentru hârtie antibacteriană" (SILVAPAPER), cod PN-III-P1-1.1-PD-2016-0409, 2018-2020, contract nr. 53/2018. Valoare proiect: 250.000 lei.

[2] Proiect individual de cercetare "Noi complecsi moleculari metal-organici" castigat prin competitia de granturi interne organizata de Universitatea „Dunarea de Jos” din Galati, 2018-2020, contract nr. GI-01/2018. Valoare proiect: 50.000 lei.

3.2. Membru în proiecte de cercetare

[1] PRIN 2010-2011 (2010BNZ3F2): DESCARTES - Development of Energy-targeted Self-assembled supramolecular systems: a Convergent Approach through Resonant information Transfer between Experiments and Simulations. Coordonator științific: Prof. dr. Maurizio Casarin (Universitatea din Padova, Italia). Responsabil științific: Prof. dr. Claudio Pettinari (Universitatea din Camerino, Italia).

[2] FP7 263042/2011: Printable Organic-Inorganic Transparent Semiconductor Devices (POINTS). Coordonator: Prof. dr. Viorica Mușat (Universitatea "Dunarea de Jos" din Galati, Romania).