

Nume Prenume: Narcisa VRINCEANU  
Gradul didactic: Sef lucrari dr. Ing.  
Instituția unde este titular: Universitatea „Lucian Blaga” din Sibiu  
Facultatea: de Inginerie  
Departamentul: Masini si Echipamente Industriale

## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

**Vrinceanu Narcisa**, titlul tezei: "Stabilizarea chimica impotriva imbatranirii a suporturilor celulozice pre-tratate prin metode neconventionale", conducator stiintific, prof. univ.dr.ing. Aurelia Grigoriu, Universitatea Tehnica „Gh.Asachi din Iasi, Diploma in Inginerie Chimica, nr. 4698/14.08.2009.

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**D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**

• **Reviste**

1. A.A. Al-Arfaj, R.B. Haj-Kacem, L. Snoussi, **N. Vrinceanu**, M.A. Alkhalidi, N.O. Alzamel, N. Ouerfelli. *Correlation Analysis of the viscosity Arrhenius-type equations parameters for some binary liquids mixtures*, Mediterranean Journal of Chemistry 2017, 6 (2), 23-32. doi: <http://dx.doi.org/10.13171/mjc62/01701041808-Alarfaj>

• **Selecție cu maximum 20 lucrări în volume de conferințe**

1. Sabina NECULAI-VALEANU, Cristina Mihaela RIMBU, Cristina Elena HORHOGEA, **Narcisa VRINCEANU**, *Preparation and antibacterial performance of xanthan gum-based composite hydrogel containing green synthesized silver nanoparticles and essential oils*, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, iunie 2021, <https://photocatalysis-workshop.eu/organizers/> - prezentare orală
2. S. SIAMER, S. BOUAFIA, **N. VRINCEANU**, M. HARJA, D. WOLBERT, L. FAVIER, Solar light driven oxidation of an organic dye with ZnO fabricated through a co-precipitation methodology The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, iunie 2021, <https://photocatalysis-workshop.eu/organizers/> - prezentare orală
3. S. Siamer, S. Bouafia, **N. Vrinceanu**, A. Constandache, A. Berbecaru, E. Matei and L. Favier, SYNTHESIS OF A ZNO CATALYST WITH ENHANCED PHOTOCATALYTIC ACTIVITY IN THE ELIMINATION OF HAZARDOUS WATER POLLUTANTS UNDER SOLAR IRRADIATION, ROMAT 2020 – lucrare invitata, decembrie 2020.
4. Lidia FAVIER, Diana COMAN, Andrei Ionut SIMION, Mariana Liliana PACALA, **Narcisa VRINCEANU**, Enhanced UV Light Assisted Photocatalytic Elimination of an Emergent Organic Water Contaminant, The Fourth Edition Of The International Conference “New Trends In Environmental and Materials Engineering”, TEME 2019, 23th-25th of October 2019, Galați, Romania – prezentare orală.
5. Lidia Favier, Andrei Ionut Simion, Mariana Liliana Pacala, Diana Coman, **Narcisa Vrinceanu**, Enhanced Elimination of a Lipid Lowering Drug over Titanium Nanosized Catalysts and UV Irradiation, RICCE 21, 21st Romanian International Conference on Chemistry and Chemical Engineering, Constanta – Mamaia, ROMANIA, septembrie 2019.
6. Iorgoiaea Guignard M., Campagne C., Giraud S., Brebu M., **Narcisa Vrinceanu**, Suche M.P., Coman D.: “Research Onto Improvement Of Microcapsules Embedding By Air-Plasma Treatment, *International Conference On Radiation And Dosimetry In Various Fields Of Research* (2nd ; 2014 ; Niš) Proceedings [Elektronski izvor] / The Second International Conference on Radiation and Dosimetry in Various Fields of Research, RAD 2014, May 27-30, 2014, Niš, Serbia ; [editor Goran Ristić]. – Niš, **RAD2014** MAY 27 – 30, 2014 | Faculty Of Electronic Engineering | Niš | Serbia |, pp 239-243, ISBN 978-86-6125-101-6 [www.rad2014.elfak.rs](http://www.rad2014.elfak.rs)
7. Coman D., **Narcisa Vrinceanu**, Oancea S., Vlad D.: “Application of antibiotics and peptides for textiles with antimicrobial barrier: interaction and assessment” *Proceedings of the 4th International Proficiency Testing Conference 2013*, pp. 263-274, 2013, ISSN 0949-1775. [www.pt-conf.org](http://www.pt-conf.org)
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9. Coman D., Oancea S., **Narcisa Vrînceanu N**, Vlad D., "The correlation between morphological and structural features and the mechanical behaviour of eco-dyed textile composites" *Proceedings of the WSEAS 6th International Conference on Manufacturing Engineering Quality and Production Systems* MEQAPS '13, Brasov June 1-3, 2013, pp. 254-258, ISSN 2227-4588, ISBN 978-1-61804-193-7. <http://wseas.org/wseas/cms.action?id=369>
10. Oancea S., Coman D., **Narcisa Vrînceanu**: "Eco-friendly process of dyeing materials using bilberry anthocyanin extract" *Proceedings of the 16th International Conference "Modern Technologies, Quality and Innovation"*, ModTech 2012, vol. II, pp. 685-688
11. Hristodor C., **Narcisa Vrinceanu**, Pui A., Brinza F., Copcia V.E., Tanasa D., Popovici E.: "Study of nanosized clay- SnO<sub>2</sub> compounds used in degradation of Eosin Y dye", *Proceedings of the 16th International Conference "Modern Technologies, Quality and Innovation"*, ModTech 2012, vol. II, pp. 445-448, 24-26 May 2012, Sinaia, Romania; [http://www.modtech.ro/Program\\_ModTech2012.pdf](http://www.modtech.ro/Program_ModTech2012.pdf)
12. **Narcisa Vrinceanu**, Hristodor C.M., Tanasa D., Popovici E., Brinza F., Toma S., Coman D., Cirmsariu A., Broasca G.: „Approach regarding the potential of different nanophotocatalysts onto a model textile dye”, *Proceedings of the 16th International Conference "Modern Technologies, Quality and Innovation"*, ModTech 2012, vol. II, pp. 445-448, 24-26 May 2012, Sinaia, Romania, pp. 1057-1060, 24-26 May 2012, [http://www.modtech.ro/Program\\_ModTech2012.pdf](http://www.modtech.ro/Program_ModTech2012.pdf)
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14. **Narcisa Vrinceanu**, Hristodor C.M., Tanasa D., Popovici E., Gherca D., Pui A., Carsmariu A., Bistricianu I.L., Coman D., Grigoriu A.M., Broasca G.: "Study concerning the synergetic effect of synthesis agents onto the surface crystallinity of some fibrous substrates coated with nanooxides, with direct implication onto thermal protection", *Proceedings of Conference entitled „Technical Textiles-Present and Future"*, ISBN 978-973-730-908-2, Iasi, Romania.
15. Tanasa D., **Narcisa Vrinceanu**, Hristodor C.M., Popovici E., Coman D., Brinza F., Bistricianu I.L., Chicet D.L., "A comparative approach towards the degradative potential of two different nanophotocatalysts onto a model textile dye", *The Annals of "Dunarea De Jos" University of Galati. Fascicle LX. Metallurgy And Materials Science* Nr. 3, pp. 71-76, 2011, ISSN 1453 – 083X [http://www.ugal.ro/doc/ugal/Programul\\_manifestarii\\_stiintifice\\_UgalMat\\_2011.pdf?PHPSESSID=861786124349f04ef135b718a84071fd](http://www.ugal.ro/doc/ugal/Programul_manifestarii_stiintifice_UgalMat_2011.pdf?PHPSESSID=861786124349f04ef135b718a84071fd)
16. Coman D., Oancea S., **Vrînceanu Narcisa**, Neagu I.: "Hygienic relevance of textiles ecoimpregnated with antibiotics" *Proceedings of the 3rd International Proficiency Testing Conference*; pp. 220-225, 2011, ISSN 2066-737X, "Lucian Blaga" University Publishing House form Sibiu, volume edited with the contribution of the National Authority for Scientific Research Romania <http://www.pt-conf.org/index.php/conference-final-programme-part-2/>
17. **Vrinceanu Narcisa**, Coman D., Popovici E., Hristodor C.M., Tanasa D., "Laboratory methods used in photocatalytic degradation of dyes in aqueous solution using sol-gel coated cotton fibrous substrate", *Proceedings of the 3rd International Proficiency Testing Conference* www.pt-conf.org, pp. 220-225, 2011, ISSN 2066-737X, "Lucian Blaga" University Publishing House form Sibiu, volume edited with the contribution of the National Authority for Scientific Research Romania, 27-29 September, 2011. <http://www.pt-conf.org/index.php/conference-final-programme-part-2/>
18. Neagu I, Coman D., **Narcisa Vrînceanu**, "New research methods on wear resistance of the clothing products", *Proceedings of the 3rd International Proficiency Testing Conference* www.pt-conf.org, pp. 220-225, 2011, ISSN 2066-737X, "Lucian Blaga" University Publishing House form Sibiu., volume edited with the contribution of the National Authority for Scientific Research Romania, 27-29 September, 2011. <http://www.pt-conf.org/index.php/conference-final-programme-part-2/>

19. Coman D., **Vrinceanu Narcisa**, Popovici E.: "Reducing the environmental impact of textile dyes containing wastewater by photocatalytic degradation with zinc oxide nanocoated fibers", *Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium*, Volum 22, Nr. 1, ISSN 1726-9679 ISBN 978-3-901509-83-4, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2011, pp. 0175-0176.
20. **Narcisa Vrinceanu**, Coman D., Popovici E., Brinza F., Nica V., "Functional finishing of fibrous substrates coated with Ag deposited TiO<sub>2</sub> nanoparticles", *Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium*, Volum 22, Nr. 1, ISSN 1726-9679 ISBN 978-3-901509-83-4, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2011, pp.0203-0204.
21. Popovici E., **Narcisa Vrinceanu**, Alexa I.F., **Hristodor C.M.**, Coman D., "Characterization of some fibrous substrates surfaces coated with Ag-deposited TiO<sub>2</sub> nanoparticles, with potential application in multifunctional finishes", *Proceedings of International symposium in Knitting and Apparel-ISKA 2010*, pp. 58-62, 2010, ISSN 2069-1564, 19-20 November 2010, Iași, Romania.

#### E. Brevete obținute în întreaga activitate

- F. Sandu I.C.A., Vasilache V., Sandu I., **Narcisa Vrinceanu.**, Sandu I.G., Ciocan A.C., Sandu A.V.: „Procedure of active preservation for water-logged old wood”, File OSIM RO 126102 A2/2009; <http://pub.osim.ro/publication-server/pdf-document?PN=RO126102%20RO%20126102&iDocId=861&iepoch=.pdf>

#### PROIECTE DE CERCETARE

##### a. Nationale

**01.05.2013-2016** Membru in Echipa de cercetare a Proiectului "Acoperiri fotocatalitice nanostructurate pe substraturi textile, ca aplicatii in sistemele de purificare a aerului" PNII-RU-TE2012-3-0202, <http://www.chem.uaic.ro/~te0202/index.html> , UEFISCDI;

**01.01.2013-31.12.2014** Membru in echipa proiectului de cooperare bilaterala Romania - Italia, 2013-2014, "Peptaibiotics, an alternative to beta-lactam antibiotics: design, synthesis, bioactivity and textile functionalization" no. 3795/2012, UEFISCDI; [http://www.research.ro/uploads/programe-internationale/cooperari-bilaterale/rezultate-finale/rezultate-finale-annex-2\\_upload-italia.pdf](http://www.research.ro/uploads/programe-internationale/cooperari-bilaterale/rezultate-finale/rezultate-finale-annex-2_upload-italia.pdf) ;

##### b. Proiecte internationale:

(i) PI in proiectul de cercetare Marie Curie, finanțat de Comisia Europeana, in cadrul Department of Industrial Engineering, Univ. of Study of Trento, Via Sommarive n. 14, Povo - 38123 TRENTO - ITALIA: cu proiectul 50% Reduction of Brake Wear Particulate Matter, **2014-2016**;

(ii) **2005-2008** – PI in cadrul Cooperarii Bilaterale (RO-GR) "THE INFLUENCE OF LASER IRRADIATION ON THE ORGANIC COMPONENTS OF HISTORIC MANUSCRIPTS" la IESL (Institute of Electronic Structure and Lasers)/ Foundation of Research and Technology Hellas, Heraklion, Creta, Contract no.32/2005;

(iii) **2005** - Doctorand Marie Curie in proiectul „Lasers for Preservation of Cultural Heritage”, ATHENA Project, Institute of Electronic Structure and Laser/Foundation of Research and Technology Hellas, Heraklion, Creta; (iv) 2005 - coordonator in proiectul de cercetare ULF (Users Laser Facilities), la Electronic Structure and Laser/Foundation of Research and Technology Hellas, Heraklion, Creta;

#### Proiecte nationale:

Coordonator proiecte mobilitate externa (i) UEFISCDI: PN-III-P1-1.1-MCD-2019-0127, 10-

16 octombrie 2019; EEA-MG-RO-NO-2018-0312, in cadrul Programului SEE 2014-2021, 2-8 septembrie 2018, la Department for Microsystems (IMS), University of South-Eastern Norway, Vestfold Campus, Contract no 43/09.08.2018; ]

(ii) PN-III-P1-1.1MC-2018-2529, 1 noiembrie – 1 decembrie 2018, la universitatea TEI of Crete, Heraklion, Grecia, UEFISCDI;

(iii) PN-III-P1-1.1-MCD-2017-0104, noiembrie 2017; Granturi interne: (1) Coordonator al proiectului de cercetare HP Substraturi polimerice inovative, pentru degradarea fotocatalitică a compușilor organici volatili, 2020-2023;

*Coordonator in cadrul proiectului Transfer know-how activities and common scientific research ULBS-Hasso Plattner*, cu titlul “From Intermolecular Interactions to Molecular Mechanical Force Fields and beyond” **noiembrie 2019**;

(3). Coordonator al granturilor interne de cercetare HP: (i) Substraturi polimerice inovative, pentru degradarea fotocatalitică a compușilor organici volatili, **2020-2023**

[https://www.ulbsibiu.ro/wp-content/uploads/documents/ca/2020/Anexa-2\\_Rezultate-competitie-granturi.pdf](https://www.ulbsibiu.ro/wp-content/uploads/documents/ca/2020/Anexa-2_Rezultate-competitie-granturi.pdf) ; (ii) „The Development and Validation of a research database made of nanofibres based system with different surface architectures”, **2016-2019**, nr contract 5421/27.07.2016,

ULBS,

[http://cercetare.ulbsibiu.ro/docs/rapoarte/Proiecte/interne/interne\\_2016.pdf](http://cercetare.ulbsibiu.ro/docs/rapoarte/Proiecte/interne/interne_2016.pdf) ; (iii).

Coordonator al proiectului de cercetare „Alternative Polymeric eco-composites with performance in friction”, **2015–2017**, nr. contract – 20132/25.05.2015, ULBS

[http://cercetare.ulbsibiu.ro/docs/rapoarte/Proiecte/interne/interne\\_2015.pdf](http://cercetare.ulbsibiu.ro/docs/rapoarte/Proiecte/interne/interne_2015.pdf) ;

(1) atragere de fonduri prin proiecte de cercetare internațională (granturi academice sau contracte cu industria): (i) IP in proiect Marie Curie, in cadrul Departamentului de Inginerie Industrială (conform legislației comunitare, art 22, legea 240/2010), la University of Study, Trento, ITALIA, cu titlul 50% Reduction of Brake Wear Particulate Matter, buget 104.000 euro, domeniul de cercetare: INGIND/21 INGIND/22 ICAR/03 CHIM/12, **2014-2016**;

(ii) coordonator in proiectul de cercetare ULF (Users Laser Facility) la Institute of Electronic Structure and Laser/Foundation of Research and Technology Hellas, Heraklion, Crete, Grecia – finanțat de CE, buget € 30.000, **2005**;

(iii) PI in cadrul programului de colaborare bilaterală România – Grecia, cu proiectul The influence of irradiation on the organic components of historic manuscripts, no. 32/2005, buget € 35.000, finanțat de Agenția Națională de Cercetare Științifică, **2005-2008**;

(iv) doctorand Marie Curie la Electronic Structure and Laser/Foundation of Research and Technology Hellas, Heraklion, Creta, Grecia, **mai 2005- august 2005**, Budget €10.000, finanțată de CE;

(v) post doc in cadrul proiectului de cercetare post-doctorală: PHOTOCATALYTIC OXIDIC NANO-COATINGS FOR PROTECTION THE FIBROUS SUBSTRATES, PREVIOUSLY MICROSTRUCTURED BY IRRADIATION, Buget: 4783736 Euro, finanțat de POSDRU, finanțat de Agenția FSE (Fonduri sociale europene) **iulie 2010-martie 2013**,

<http://www.postdoc-uai.ro/index.php?page=whoswho&id=47>; membru in cadrul proiectului de cooperare bilaterală România – Italia, cu titlul Peptaibiotics, an alternative to beta-lactam antibiotics: design, synthesis, bioactivity and textile functionalization no.3795/2012, UEFISCDI, (ITALY) 2013-2014 (Buget € 8076,8);

[http://www.esteri.it/mae/doc\\_politica\\_estera/Cultura/CooperScientificaTecnologica/Programmi%20esecutivi/20121010\\_PE\\_ItaliaRomania\\_2013\\_2014.pdf](http://www.esteri.it/mae/doc_politica_estera/Cultura/CooperScientificaTecnologica/Programmi%20esecutivi/20121010_PE_ItaliaRomania_2013_2014.pdf); membru in cadrul proiectului PNII-RU-TE2012-3-0202, cu titlul Photocatalytic active nanostructured coatings on fabric substrates for applications in air purification systems” Buget 792.220 RON, 2013-2016;

membru in cadrul proiectului CNCSIS 423, IDEI, Tema nr. 423, Contract nr. 127/01.10.2007, <http://www.afir.org.ro/id423/files/2009.htm>; membru in cadrul proiectului CEEEX 3002/2005, cu titlul Biophotonic Nanotechnologies Applied In Textile Industry With

Benefic Effects Onto Human Organsim, prin “Biofotontex” Garments (Buget € 550.000; 2005-2008 <http://www.textuiasi.ro>; IP in cadrul grantelor de cercetare interne, finantate de ULBS: Substraturi polimerice inovative, pentru degradarea fotocatalitică a compușilor organici volatili, buget 10.000 lei, 2020-2023; Eco-compozite polimerice alternative cu performanta in frictiune”, buget 2000 Euro, 2015 –2017, contract nr. 20132/25.05.2015; Dezvoltarea si validarea unei baze de date constand dintr-un sistem de nanofibre cu diverse arhitecturi de suprafeta, buget 2000 Euro, 2016-2019, Contract nr. 5421/27.07.2016;

*Mobilitati ERASMUS, ca profesor invitat:*

- Mobilitate ERASMUS+ programme, STA, la École Nationale Supérieure de Chimie de Rennes, ISCR, UMR CNRS 6226, Equipe Chimie et Ingénierie des Procédés, in perioada 03.03-09.03.2019, 1065 Euro, contract no. 2018-1-RO01-KA103-047641;

- Mobilitate ERASMUS+ WITH PARTNER COUNTRIES programme, la St. Petersburg State Institute of Technology, Russia, in perioada 14 Mai 2018-21 Mai 2018;

- Mobilitate in cadrul proiectului “Training Speaker” Project, Centre d’Etudes et de Recherches Lasers et Applications (CERLA), Faculté des Sciences et Technologies, Université de Lille, 59655 Villeneuve d’Ascq cedex, France, financed by Université de Lille, 30 Martie 2018- 24 Aprilie 2018, cercetator invitat;

- Mobilitate in cadrul Fundatiei DAAAD, Chemnitz, Technical University of Chemnitz, cercetator invitat, noiembrie 2016, in cadrul Proiectului International InProTuc, finantata de Fundatia DAAAD, Chemnitz, Technical University of Chemnitz, Germania;

- Mobilitate in cadrul Financial Mechanism of Europea Economic Space (SEE), 2015 – 2016, [http://www.ulbsibiu.ro/ro/stiri/news.php?news\\_id=2582](http://www.ulbsibiu.ro/ro/stiri/news.php?news_id=2582), la Buskerud and Vestfold University College, Norway, Aprilie 2016, [http://www.ulbsibiu.ro/ro/stiri/news.php?news\\_id=2582](http://www.ulbsibiu.ro/ro/stiri/news.php?news_id=2582), la Buskerud and Vestfold University College – cercetator invitat.

**Data:**

**Semnătura:**



**24 iunie 2021**