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 Inginerie chimica

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.

Brevete

Sandu I.C.A., Vasilache V., Sandu I., **Narcisa Vrînceanu**, 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&iepatch=.pdf

B. Cărți si capitole în cărți publicate în ultimii 10ani

1. **Narcisa Vrinceanu**, Diana Coman, *UV Protection: Historical Perspectives and State-of- the-Art Achievements*, Luqman Jameel Rather, Mohd Shabbir and Aminoddin Haji (eds.) Sustainable Practices in the Textile Industry, (167–206), **2021** Scrivener Publishing LLC, 40 pg., capitol de carte https://bookshelf.vitalsource.com/reader/books/9781119818892/epubcfi/6/30[%3Bvnd.vst.idref%3Dc07]!/4
2. **Narcisa Vrinceanu** and Diana Coman, *Increased-Value Oxide Powders for Polymeric Fibrous Matrices with Tailored Surfaces for Clothing Wear Comfort: A Review*, https://www.intechopen.com/online-first/increased-value-oxide-powders-for-polymeric-fibrous-matrices-with-tailored-surfaces-for-clothing-wea, DOI: 10.5772/intechopen.88541, Smart and Functional Soft Materials, sau de pe INTECHOPEN: Narcisa Vrinceanu and Diana Coman (August 20th **2019**). Increased-Value Oxide Powders for Polymeric Fibrous Matrices with Tailored Surfaces for Clothing Wear Comfort: A Review [Online First], IntechOpen, DOI: 10.5772/intechopen.88541; 16 pag., capitol de carte; https://www.intechopen.com/online-first/increased-value-oxide-powders-for-polymeric-fibrous-matrices-with-tailored-surfaces-for-clothing-wea
3. Ioan Valentin Tudose, **Narcisa Vrinceanu**, Cristina Pachiu, Stefan Bucur, Petronela Pascariu, Laurentiu Rusen, Emmanouel Koudoumas and Mirela Suchea, *Nanostructured ZnO based materials for biomedical and environmental applications, Functional Nanostructured Interfaces for Environmental and Biomedical Applications*, 1st Edition, Editors: Valentina Dinca Mirela Suchea, ISBN: 9780128144015, Elsevier, **2019**, 21 pag. https://www.elsevier.com/books/functional-nanostructured-interfaces-for-environmental-and-biomedical-applications/dinca/978-0-12-814401-5
4. **Narcisa Vrinceanu**, Diana Coman (Eds), *Advanced health-improved textile composites*, Lambert Academic Publishing https://www.lap-

publishing.com/catalog/details//store/gb/book/978-3-330-00480-1/advanced-health-improved-textile-composites ; http://biblioteca.ulbsibiu.ro:8080/liberty/opac/search.do?queryTerm=vrinceanu%2C%20narcisa&mode=BASIC&operator=ADJ1&includeNonPhysicalItems=true&title=Title%20...%20enter%20here&publicationYear=Year%20From&yearTo=Year%20To&catalogAuthors=Author%20...%20enter%20here&publisher=Publisher%20...%20enter%20here&mainSubject=Subject%20; 2017, ISBN 978-3-330-00480-1, 145 pag.

5. **Narcisa Vrinceanu**, Paraschiva Postolache: Novel Approach of Added-Value Zinc Oxide Powders for Polymeric Fibrous Matrices with Engineered Architectures for High Performance Textiles, Nova Science Publishers, ISBN: 978-1-63483-432-2, Series: Materials and Manufacturing Technology, Binding: ebook, **2015**, ISBN: 978-1-63483- 458-2, 156 pag, https://www.novapublishers.com/catalog/product_info.php?products_id=55654&osCsid=
6. Popovici E., **Narcisa Vrinceanu**, Suchea M.P., Cioca L.I. The Nanostructured Materials Contribution in the Enhancement of the Performance Attributes of the Textile Materials, volume's editor Mahmood Aliofkhazraei, in book entitled "Comprehensive Guide for Mesoporous Materials". Publishing House Nova Science Publishers, Inc., 400 Oser Avenue, Suite 1600, Hauppauge, New York 11788, **2015**, Series: Materials Science and Technologies, Binding: ebook, Pub. Date: 2015, Pages: 7x10 - (NBC-C), ISBN: 978-1-63463-991-0, 35 pag, capitol de carte; https://www.novapublishers.com/catalog/product_info.php?products_id=53491&osCsid=0d1b931260a9caad507273a5fc5320d0
7. Mirela Guignard, ed. **Narcisa Vrinceanu**: Tendințe actuale și de perspectivă în aplicarea nanotehnologiilor in industria textila. Contributii la realizarea unor materiale textile din fire de bambus si in amestec cu alte fibre, destinate cosmeto-textilelor, Ed. PIM, IASI, ISBN 978-606-685-185-5, **2015**, 223 pag
8. Gianina ASAVEI, ed. **Narcisa VRÎNCEANU**, Abordari teoretice si experimentale privind optimizarea imbracamintei cu destinatie speciala: design si arhitectura, Editura PIM,Iasi, ISBN 978-606-13-2702-7, **2015**, 202 pag
9. **Narcisa Vrinceanu**, Petre A.B., Hristodor C.M., Popovici E., Pui A., Coman D., Tanasa D., Zinc Oxide — Linen Fibrous Composites: Morphological, Structural, Chemical, Humidity Adsorptive and Thermal Barrier Attributes, volume's editor Mahmood Aliofkhazraei, in book entitled "Modern Surface Engineering Treatments", Publishing House INTECH- OPEN, ISBN 978-953-51-1149-8, **2013**; 23 pag., capitol de carte
10. **Narcisa Vrinceanu**, Metode neconventionale pentru stabilizarea suporturilor celulozice, Editura Performantica, ISBN 978-973-730-469-8, **2009**, Iasi, Romania, 225 pag, http://www.performantica.inventica.org.ro/carti2009.html
11. Stanciulescu T. D., Guja C., Manu D. M., Poenaru A. D., Stanciulescu G. D., Grigoriu A., Blascu V., Bulgaru V.-M., Diac C., Grigoriu A.M., Grigoriu G.E., Sovan A., **Narcisa Vrinceanu**, Bio-Photonic Garment, a Chance for Human Health, Publishing House Performantica, Iasi, Romania, ISBN: 978-973-730-517-6, **2008**, (458 pag). http://www.performantica.inventica.org.ro/colectii/semiologica/vestimentatie%20biofotonica.pdf
12. Coman, D.; Blascu, V., **Vrinceanu Narcisa**, Testarea fibrelor textile, Sibiu: Editura ALMA MATER, 2007. 257 pag., ISBN-978-973-632-360-7
13. Iliescu; E., **Narcisa Vrinceanu**; Cosmin, D., Finisarea superioara a materialelor textile. Antistatizarea, Iasi: Editura Tehnopress, 2004. 148 pag., ISBN 973-8048-25-7, 2004
14. **Narcisa Vrînceanu**; Grigoriu, A.; Coman, D., Metode de investigare a obiectelor din patrimoniul cultural, Iasi: Editura Tehnopress, 2003. 203 pag., ISBN: 973-8377-77-3, 2003
15. **Narcisa Vrînceanu**, Grigoriu, A., et al Dictionar Tehnic Textil Poliglot, vol. I si II, Bucuresti: Editura CERTEX, 1999. 1295 pag. ISBN: 973-96605-1-7

Lucrări indexate WOS

16. Ullah, W; Shah, ZH; Sulaiman, M; Alshehri, MH; Antonescu, E; **Vrinceanu, N** (2025). Fractal flow model for Darcy–Forchheimer couple stress cluster interfacial nanolayer magnetized metallic nanofluid flow through a porous channel. Fractals: Complex Geometry, Patterns and Scaling in Nature and Society. https://doi.org/10.10.1142/S0218348X25402455 ,

    WOS:001565376800001

17. Yasin, N., Ahmad, S., Umair, M., Shah, Z., **Vrinceanu, N.,** Alhawael, G. (2025). Investigations of conjugate heat transfer and fluid flow in partitioned porous cavity using Darcy Forchheimer model: Finite element based computations. Case Studies in Thermal Engineering, 72, (pp. 1–13). https://doi.org/10.1016/j.csite.2025.106252 ,

    WOS:001496143500004

18. Zeb, M., Awais, M., Waheed, A., Shah, Z., **Vrinceanu, N**., Antonescu, E. (2025). Intelligent framework for dual solutions of copper oxide nanoparticles suspension in thermally varied fluid reservoirs using the Koo–Kleinstreuer–Li (KKL) Model. Alexandria Engineering Journal, 124, 435–445. https://doi.org/10.1016/j.aej.2025.03.126

    WOS: 001465287200001

19. Jameel, M., Shah, Z. H., Rooman, M., Alshehri, M. H., **Vrinceanu, N.,** Antonescu, E. (2024). Entropy driven optimization of non linear radiative chemically reactive Sutterby nanofluid flow in presence of gyrotactic micro organism with Hall effect and activation energy. Scientific Reports, 14, https://doi.org/10.1038/s41598-024-81932-8

    WOS: 001372606600028

20. Zaman, T., Shah, Z. H., Rooman, M., Khan, W., Alshehri, M. H., **Vrinceanu, N**. (2024). Rheological analysis of magnetized trihybrid nanofluid drug carriers in unsteady blood flow through a single stenotic artery. Chinese Journal of Physics, 91, 538–559. https://doi.org/10.1016/j.cjph.2024.08.002

    WOS 001297613700001

21. Jameel, M., Shah, Z. H., Rooman, M., Alshehri, M. H.**, Vrinceanu, N.,** Antonescu, E. (2024). Entropy driven optimization of non linear radiative chemically reactive Sutterby nanofluid flow in presence of gyrotactic micro organism with Hall effect and activation energy. Scientific Reports, 14, https://doi.org/10.1038/s41598-024-81932-8

    WOS: 001372606600028

22. Zaman, T., Shah, Z. H., Rooman, M., Khan, W., Alshehri, M. H., **Vrinceanu, N.** (2024). Rheological analysis of magnetized trihybrid nanofluid drug carriers in unsteady blood flow through a single stenotic artery. Chinese Journal of Physics, 91, 538–559. https://doi.org/10.1016/j.cjph.2024.08.002

    WOS 001297613700001

23. Khan, M. S., Shah, Z. H., Rooman, M., AL Garalleh, H., **Vrinceanu, N**., Khan, W. (2024). Rayleigh Benard convection and sensitivity analysis of magnetized couple stress water conveying bionanofluid flow with thermal diffusivities effect. Results in Engineering. 23 https://doi.org/10.1016/j.rineng.2024.102652

    WOS: 001288679700001

24. Raza, J., Lund, L. A., Ashraf, H., Shah, Z. H., Alshehri, M. H., **Vrînceanu, N.** (2024). Fuzzy TOPSIS optimization of MHD trihybrid nanofluid in heat pipes. Case Studies in Thermal Engineering, 64, https://doi.org/10.1016/j.csite.2024.105493

WOS:001360125100001

25. Deebani, W., Yashkun, U., Dero, S., Lund, L. A., Shah, Z. H., **Vrinceanu, N**., Shutaywi, M. (2024, June). Numerical simulation and stability analysis of radiative magnetized hybridized ferrofluid flow with acute magnetic force over shrinking/ stretching surface. Results in Engineering, 22, https://doi.org/10.1016/j.rineng.2024.102315

    WOS:001243589100001

26. Panda, S., Shamshuddin, M., Pattnaik, P. K., Mishra, S. R., Shah, Z. H., Alshehri, M. H., **Vrinceanu, N**. (2024). Ferromagnetic effect on Casson nanofluid flow and transport phenomena across a bi-directional Riga sensor device: Darcy–Forchheimer model. Nanotechnology Reviews, 13(1), https://doi.org/10.1515/ntrev-2024-0021

    WOS:001250670200001

27. Raza, J., Mustafa, F., Lund, L. A., Shah, Z. H., Alshehri, M. H., **Vrinceanu, N**. (2024). Optimization of heat transfer rate of trihybrid nanofluid embedded between two horizontal coaxial cylinders by RSM. Case Studies in Thermal Engineering, 60, 104637. https://doi.org/10.1016/j.csite.2024.104637

    WOS: 001258282700001

28. Soomro, A. M., Fadhel, M. A., Lund, L. A., Shah, Z., Alshehri, M. H., **Vrinceanu, N**. (2024). Dual solutions of magnetized radiative flow of Casson Nanofluid over a stretching/shrinking cylinder: Stability analysis. Heliyon, 10(8), https://doi.org/10.1016/j.heliyon.2024.e29696

    WOS: 001233374400001

29. Khan, M. S., Ahmad, S., Shah, Z. H., **Vrinceanu, N.,** Alshehri, M. H. (2024). Natural convection heat transfer of a hybrid nanofluid in a permeable quadrantal enclosure with heat generation. Case Studies in Thermal Engineering, 56, https://doi.org/10.1016/j.csite.2024.104207

    WOS:001209098600001

30. Khan, M. S., Ahmad, S., Al Garalleh, H., **Vrinceanu N.** (2024). Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders. Results in Engineering, 21,

    https://doi.org/10.1016/j.rineng.2024.101925

    WOS 001204028600001

31. Shah, Z. H., Sulaiman, M., Alshehri, M. H., **Vrinceanu, N.,** (2024). Gyrotactic microorganism's and heat transfer analysis of water conveying MHD SWCNT nanoparticles using fourth-grade fluid model over Riga plate. Case Studies in Thermal Engineering, 55, https://doi.org/10.1016/j.csite.2024.104119

    WOS:001198726700001

32. Fadhel, M. A., Asghar, A., Lund, L. A., Shah, Z. H., **Vrinceanu, N**., Tirth, V. (2024). Dual numerical solutions of Casson SA-hybrid nanofluid toward a stagnation point flow over stretching/shrinking cylinder. Nanotechnology Reviews, 13(1). https://doi.org/10.1515/ntrev-2023-0191

    WOS:001162198300001

33. Shah, Z. H., Asghar, A., Ying, T. Y., Lund, L. A., Alshehri, A., **Vrinceanu, N**. (2024). Numerical investigation of sodium alginate alumina/copper radiative hybrid nanofluid flow over a power law stretching/shrinking sheet with suction effect: A study of dual solutions. Results in Engineering, 21, https://doi.org/10.1016/j.rineng.2024.101235

WOS:001183777300001

34. Sheikholeslami, M., Shah, Z. H., Saeed, A., **Vrinceanu, N**., Suliman, M. (2024). Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator. Results in Physics, 56, https://doi.org/10.1016/j.rinp.2023.107271

    WOS:001144135200001

35. Khan, M. S., Shah, Z., Roman, M., Khan, W., **Vrinceanu, N.,** Alshehri, M. H. (2023). Entropy generation in magneto couple stress bionanofluid flow containing gyrotactic microorganisms towards a stagnation point on a stretching/shrinking sheet. Scientific Reports, 13(1), https://doi.org/10.1038/s41598-023-48676-3

    WOS:001201688200001

36. Jameel, M., Shah, Z. H., Rooman, M., Alshehri, M. H., **Vrinceanu, N**. (2023).

    Entropy generation analysis on Darcy-Forchheimer Maxwell nanofluid flow past a porous stretching sheet with threshold Non-Fourier heat flux model and Joule heating. Case Studies in Thermal Engineering, 52, https://doi.org/10.1016/j.csite.2023.103738
    WOS:001119302700001

37. Dero, S., Fadhel, M. A., Shah, Z. H., Lund, L. A., **Vrinceanu, N**., Dewidar, A. Z., Elansary, H. O. (2023). Multiple solutions of Hiemenz flow of CNTs hybrid base $C_2H_6O_2 + H_2O$ nanofluid and heat transfer over stretching/shrinking surface: Stability analysis. Case Studies in Thermal Engineering, 49, https://doi.org/10.1016/j.csite.2023.103190

    WOS:001034326400001

38. Asghar, A., Vrinceanu, N., Ying, T. Y., Lund, L. A., Shah, Z., & Tirth, V., **Vrinceanu N**. (2023). Dual solutions of convective rotating flow of three-dimensional hybrid nanofluid across the linear stretching/shrinking sheet. Alexandria Engineering Journal, 75, 297–312, https://doi.org/10.1016/j.aej.2023.05.089

    WOS:001016622200001

39. Ali, F., Awais, M., Ali, A., **Vrinceanu, N**., Shah, Z. H., & Tirth, V. (2023). Intelligent computing with Levenberg-Marquardt artificial neural network for Carbon nanotubes-water between stretchable rotating disks. Scientific Reports, 13(1) https://doi.org/10.1038/s41598-023-30936-x

    WOS:000985158100012

40. Asghar, A., Chandio, A. F., Shah, Z. H., **Vrinceanu, N**., Deebani, W., Shutaywi, M., Lund, L. A. (2023). Magnetized mixed convection hybrid nanofluid with effect of heat generation/absorption and velocity slip condition. Heliyon, https://doi.org/10.1016/j.heliyon.2023.e13189

    WOS:000968543100001

41. Khan, M. S., Ahmad, S., Shah, Z., Alshehri, A.**, Vrinceanu, N.,** AL Garalleh, H. (2024). Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders. Results in Engineering, 21, https://doi.org/10.1016/j.rineng.2024.101925

    WOS:001204028600001

42. Rooman, M., Shafiq, A., Shah, Z., **Vrinceanu, N**., Deebani, W., Shutaywi, M. (2022). Statistical modeling for Ree-Eyring nanofluid flow in a conical gap between porous rotating

surfaces with entropy generation and Hall Effect. Scientific Reports, 12(1) https://doi.org/10.1038/s41598-022-25136-y
WOS:000905463900026

43. Hussain, S., Rasheed, K., Ali, A., **Vrinceanu, N**., Alshehri, A., Shah, Z. (2022). A sensitivity analysis of MHD nanofluid flow across an exponentially stretched surface with non-uniform heat flux by response surface methodology. Scientific Reports, 12(1) https://doi.org/10.1038/s41598-022-22970-y
WOS:000878306800039

44. Shah, Z., Rooman, M., Jan, M.A., **Vrinceanu, N**., Deebani, W., Shutaywi, M., Bou, S.F. (2022). Radiative Darcy-Forchheimer Micropler Bodewadt flow of CNTs with viscous dissipation effect. Journal of Petroleum Science and Engineering, 217, https://doi.org/10.1016/j.petrol.2022.109118
WOS:000853040100005

45. Pop, D.N., **Vrinceanu, N.,** Al-Omari, S., Ouerfelli, N., Baleanu, D., Nisar, K.S. (2021). On the solution of a parabolic PDE involving a gas flow through a semi-infinite porous medium. Results in Physics, 22, https://doi.org/10.1016/j.rinp.2021.103884
WOS:000630406800032

46. Sohail, S., Shah, Z.H., Rooman, M., Khan, W., Alshehri, M.H., **Vrinceanu, N.,** Antonescu, E. (2025). Computational modeling and thermal analysis of magnetized nanofluid flow with physio-chemical interaction and chemical reaction between two non-parallel walls. Frontiers in Chemistry, 13. https://doi.org/10.3389/fchem.2025.1466356
WOS:001498898500001

47. Shutaywi, M., Raza, J., Abualnaja, K.M., Shah, Z., **Vrinceanu, N.,** Deebani, W. (2025), Integrated Taguchi-GRA-PCA for optimizing the heat transfer performance of trihybrid Casson nanofluid flow over stretching sheet with quadratic velocity. Journal of Radiation Research and Applied Sciences, 18(3). https://doi.org/10.1016/j.jrras.2025.103157
WOS:001490460900001

48. Nazneen, Y., Rooman, M., Shah, Z.H., Alshehri, M.H., **Vrinceanu, N**. (2024). Unsteady magnetized Ree-Eyring radiative hybrid nanofluid flow over a permeable biaxial shrinking sheet with Cattaneo-Christov heat flux effect. Journal of Radiation Research and Applied Sciences, 18(1). https://doi.org/10.1016/j.jrras.2024.100471
WOS:001400386200001

49. Deebani, W., Fadhel, M.A., Lund, L.A., Shah, Z., **Vrinceanu, N.,** Shutaywi, M. (2024). Investigating the interplay between duality and stability in magnetized radiative mixed convection of Casson nanofluid flow over a stretching/shrinking cylinder. Journal of Radiation Research and Applied Sciences, 18(1) https://doi.org/10.1016/j.jrras.2025.1267
WOS:001402513900001

50. Shamshuddin, M., Shah, Z.H., Usman, A., Saeed, A., Alshehri, M.H., **Vrinceanu, N.,** Antonescu, E. (2024). Investigation of convective heat transport in a Carreau hybrid nanofluid between two stretchable rotatory disks. Open Physics, 22(1) https://doi.org/10.1515/phys-2024-0416
WOS:001347035000001

51. Ouerfelli, N., **Vrinceanu, N**., Mliki, E., Amin, K. A., Snoussi, L., Coman, D., Mrabet, D.

(2024). Rheological behavior of the synovial fluid: a mathematical challenge. Frontiers in Materials, 11 https://doi.org/10.3389/fmats.2024.1386694
WOS:001293760300001

52. Deebani, W., Shah, Z., Rooman, M., Khan, N. U., **Vrinceanu, N.,** Shutaywi, M. (2024). Computational modelling of micropolar blood-based magnetised hybrid nanofluid flow over a porous curved surface in the presence of artificial bacteria.
Frontiers in Chemistry, 12 https://doi.org/10.3389/fchem.2024.1397066
WOS:001250498600001

53. Deebani, W., Yashkun, U., Dero, S., Lund, L. A., Shah, Z. H., **Vrinceanu, N**., Shutaywi, M. (2024). Numerical simulation and stability analysis of radiative magnetized hybridized ferrofluid flow with acute magnetic force over shrinking/stretching surface. Results in Engineering, 22,
WOS:001243589100001

54. Sheikholeslami, M., Shah, Z. H., Saeed, A., **Vrinceanu, N**., Suliman, M. (2023). Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator.
Results in Physics, 56 https://doi.org/10.1016/j.rinp.2023.107271
WOS:001144135200001

55. Tang, T.-Q., Shah, Z. H., Thumma, T., Rooman, M., **Vrinceanu, N**., Alshehri, M. H. (2023). Response surface optimization and sensitivity analysis on biomagnetic blood Carreau nanofluid flow in stenotic artery with motile gyrotactic microorganisms.SN Applied Sciences, 5(12). https://doi.org/10.1007/s42452-023-05576-5
WOS:001119627500002

56. Deebani, W., Rooman, M., **Vrinceanu, N.,** Shah, Z. H., Shutaywi, M., Jeli, R. A. A. (2023). Computational analysis and biomechanical study of Oldroyd-B fluid with homogeneous and heterogeneous reactions through a vertical non-uniform channel. Open Physics, 21(1). https://doi.org/10.1515/phys-2022-0241
WOS:001037121900001

57. Tang, T. Q., Rooman, M., Shah, Z., Khan, S., **Vrinceanu, N.,** Alshehri, A., Racheriu, M. (2023). Numerical study of magnetized Powell-Eyring hybrid nanomaterial flow with variable heat transfer in the presence of artificial bacteria: Applications for tumor removal and cancer cell destruction.
Frontiers in Materials, 10 https://doi.org/10.3389/fmats.2023.1144854
WOS:000966904400001

58. Tang, T. Q., Rooman, M., Shah, Z. H., Jan, M. A., **Vrinceanu, N**., Racheriu, M. (2023). Computational study and characteristics of magnetized gold-blood Oldroyd-B nanofluid flow and heat transfer in stenosis narrow arteries. Journal of Magnetism and Magnetic Materials, https://doi.org/10.569. 10.1016/j.jmmm.2023.170448
WOS:000926570500001

59. Lund, L. A., Chandio, A. F., **Vrinceanu, N**., Yashkun, U., Shah, Z. H., Alshehri, A. (2023). Darcy-Forchheimer magnetized nanofluid flow along with heating and dissipation effects over a shrinking exponential sheet with stability analysis. Micromachines, 14(1), https://doi.org/10.3390/mi14010106

WOS:000916174800001

60. Tang, T. Q., Rooman, M., **Vrinceanu, N**., Shah, Z., Alshehri, A. (2022). Blood flow of Au-nanofluid using Sisko model in stenotic artery with porous walls and viscous dissipation effect. Micromachines, 13(8), https://doi.org/10.3390/mi13081303
WOS:000846730300001

61. Bibi, S., Shah, Z. H., Rooman, M.**, Vrinceanu, N.,** Abualnaja, K. M., Racheriu, M. (2025). Peristaltic transport of an electro-osmotic couple stress Jeffrey hybrid blood-based magnetized nanofluid flow with entropy analysis. Journal of Nonlinear Mathematical Physics, 32(1). https://doi.org/10.1007/s44198-025-00284-7
WOS:001500451300001

62. Naz, R., Saeed, A., Tirth, V., Shukla, N. K., Mayet, A. M., Khan, A., **Vrinceanu, N**., Racheriu, M., Amir, T., & Iqbal, A. (2023). Structural and functional characterization of novel phosphotyrosine phosphatase protein from Drosophila melanogaster (pupal retina). ACS Omega, 8(2), 1937–1945 10.1021/acsomega.2c04760
WOS:000907741200001

63. Shutaywi, M., Rooman, M., Jan, M. A., **Vrinceanu, N**., Shah, Z., Deebani, W. (2022). Entropy generation and thermal analysis on MHD second-grade fluid with variable thermophysical properties over a stratified permeable surface of paraboloid revolution. ACS Omega, 7(31), https://doi.org/10.1021/acsomega.2c02452
WOS:000834596800001

64. Shah, Z. H., Ullah, A., Musa, A., **Vrinceanu, N.,** Bou, S. F., Iqbal, S., Deebani, W. (2022). Entropy optimization and thermal behavior of a porous system consider hybrid nanofluid. Frontiers in Physics, 10, https://doi.org/10.3389/fphy.2022.929463
WOS:000828113500001

65. Rooman, M., Jan, M. A., Shah, Z., **Vrinceanu, N**., Bou, S. F., Iqbal, S., Deebani, W. (2022). Entropy optimization on axisymmetric Darcy-Forchheimer Powell-Eyring nanofluid over a horizontally stretching cylinder with viscous dissipation effect. Coatings, 12(6), https://doi.org/10.3390/coatings12060749
WOS:000818287800001

66. Asghar, A., Lund, L. A., Shah, Z. H., **Vrinceanu, N**., Deebani, W., Shutaywi, M. (2022). Effect of thermal radiation on three-dimensional magnetized rotating flow of a hybrid nanofluid. Nanomaterials, 12(9) https://doi.org/10.3390/nano12091566
WOS:000794599000001

67. Shah, Z., **Vrinceanu, N**., Rooman, M., Deebani, W., Shutaywi, M. (2022). Mathematical modelling of Ree-Eyring nanofluid using Koo-Kleinstreuer and Cattaneo-Christov models on chemically reactive AA7072-AA7075 alloys over a magnetic dipole stretching surface. Coatings, 12(3) https://doi.org/10.3390/coatings12030391
WOS:000775746700001

68. **Vrinceanu, N**., Bucur, S., Rimbu, C. M., Neculai-Valeanu, S., Bou, S. F., & Suchea, M. P. (2022). Nanoparticle/biopolymer-based coatings for functionalization of textiles: Recent developments (a minireview). Textile Research Journal, 92(19-20) https://doi.org/10.1177/00405175211070613

WOS:000752057700001

69. **Vrinceanu, N.,** Guignard, M. I., Campagne, C., Giraud, S., Prepelita, R. I., Coman, D., Petrescu, V. D., Dumitrascu, D. D., Ouerfelli, N., Suchea, M. P. (2018). Correlation between surface engineering and deformation response of some natural polymer fibrous systems. Journal of Engineered Fibers and Fabrics, 13(2) https://doi.org/10.1177/155892501801300205
WOS:000442315200005

70. Rimbu, C., **Vrinceanu, N**., Broasca, G., Farima, D., Ciocoiu, M., Campagne, C., Suchea, M. P., Nistor, A. (2013). Zinc oxide application in the textile industry: Surface tailoring and water barrier attributes as parameters with direct implication in comfort performance. Textile Research Journal, 83(20), https://doi.org/10.1177/0040517513478460
WOS:000327372700004

71. Prepelita, I. R., **Vrinceanu, N.,** Chirita, R., Dobrin, R. P., Alexinschi, O. E., Brinza, F., Hagiu, B. A., Suchea, M. P. (2013) New approach on the role of a polymer matrix in the strong texturation of ZnO nanopowders. Revue Roumaine de Chimie, 58(11-12),
WOS:000339537700004

72. Hristodor, C. M., **Vrinceanu, N.,** Pode, R., Copcia, V. E., Botezatu, E., Popovici, E. (2013). Preparation and thermal stability of Al_2O_3-clay and Fe_2O_3-clay nanocomposites, with potential application as remediation of radioactive effluents. Journal of Thermal Analysis and Calorimetry, 111(2), https://doi.org/10.1007/s10973-012-2330-6
WOS:000313409700028

73. **Vrinceanu, N**., Tanasa, D., Hristodor, C. M., Brinza, F., Popovici, E., Gherca, D., Pui, A., Coman, D., Carsmariu, A., Bistricianu, I., Broasca, G. (2013).
Synthesis and characterization of zinc oxide nanoparticles. Journal of Thermal Analysis and Calorimetry, 111(2), https://doi.org/10.1007/s10973 012 22697
WOS:000313409700083

74. Broasca, G., Suchea, M. P., Ciocoiu, M., Farima, D., **Vrinceanu, N**., Campagne, C., Rimbu, C., Iorgoaea, M. (2023). Novel approach regarding zeta potential variation as a consequence of a woven fabrics antibacterial finishing treatment. Tekstil ve Konfeksiyon, 23(1)
WOS:000322802600008

75. Tanasa, D., **Vrinceanu, N**., Nistor, A., Hristodor, C. M., Popovici, E., Bistricianu, I. L., Brinza, F., Chicet, D. L., Coman, D., Pui, A., Grigoriu, A. M., Broasca, G. (2022). Zinc oxide-linen fibrous composites: Morphological, structural, chemical and humidity adsorptive attributes. Textile Research Journal, 82(8), https://doi.org/10.1177/0040517511435068
WOS:000301191300009

76. Yashkun, U., Lund, L. A., Zaimi, K., Shah, Z., Alshehri, M. H., **Vrînceanu, N.,** Antonescu, E. (2024). Computational study of magnetite–ethylene glycol–water-based hybrid nanofluid dynamics on an exponential shrinking/stretching Riga surface under radiative heat flux. Colloid and Polymer Science, 303(1), 95–109 https://doi.org/10.1007/s00396-024-05332-0
WOS:001337590300001

77. Turabi, Y. U. U. B., Ahmad, S., Islam, S. U., Shah, Z. H., **Vrînceanu, N**., Racheriu, M. (2025). Predicting nanofluid behavior in inflamed stenotic arteries: A neural network and finite element-based analysis. Computer Methods in Biomechanics and Biomedical Engineering.

WOS:001401756600001

78. Rîmbu, C. M., Serbezeanu, D., Vlad Bubulac, T., Suflet, D. M., Motrescu, I., Lungoci, C., Robu, T., **Vrînceanu, N**., Grecu, M., Cozma, A. P., Fotea, L., Anița, D. C., Popovici, I., Horhogea, C. E. (2024). Antimicrobial activity of Artemisia dracunculus oil loaded agarose/poly(vinyl alcohol) hydrogel for bio applications. Gels, 10(1), https://doi.org/10.3390/gels10010026 WOS:001151905600001

79. Ouerfelli, N., **Vrinceanu, N**., Mliki, E., Homeida, A. M., Amin, K. A., Ogrodowczyk, M., Alshehri, F. S., Ouerfelli, N. (2020). Modeling of the irradiation effect on some physicochemical properties of metoprolol tartrate for safe medical uses. Scientific Reports, 10(1). https://doi.org/10.1038/s41598-019-56805-0
WOS:000517989900018

80. **Vrinceanu, N.,** Hlihor, R. M., Simion, A. I., Rusu, L., Fekete-Kertész, I., Barka, N., Favier, L. (2019). New evidence of the enhanced elimination of a persistent drug used as a lipid absorption inhibitor by advanced oxidation with UV-A and nanosized catalysts. Catalysts, 9(9) https://doi.org/10.3390/catal9090761
WOS:000489178000063

81. Dumitrascu, D. D., Popovici, E., **Vrînceanu, N.,** Humelnicu, D., Ouerfelli, N., Prepeliță, R. I., Grădinaru, I. (2016). Photocatalytic performance of systems based on uranyl-incorporated SBA-15 mesoporous silica. Digest Journal of Nanomaterials and Biostructures, 11(2), 381–392.
WOS:000378158700008

82. Postolache, P., Petrescu, V., Dumitrascu, D. D., Rimbu, C., **Vrinceanu, N**., Cipaian, C. R. (2016). Research regarding a correlation core-shell morphology-thermal stability of silica-silver nanoparticles. Chemical Engineering Communications, 203(5) https://doi.org/10.1080/00986445.2015.1078795
WOS:000372364100010

83. Guignard, M. I., Campagne, C., Giraud, S., Brebu, M., **Vrinceanu, N**., Cioca, L.-I. (2015). Functionalization of bamboo knitted fabric using air plasma treatment for the improvement of microcapsules embedding. Journal of the Textile Institute, 106(2) https://doi.org/10.1080/00405000.2014.942115
WOS:000345570900002

84. Coman, D., Oancea, S., **Vrinceanu N**., Stoia, M. (2014). Sonication and conventional dyeing procedures of flax fibres with Allium cepa anthocyanin extract. Cellulose Chemistry and Technology, 48(1–2), 145–157.
WOS:000333947500020

85. Suchea, M., Tudose, I. V., **Vrinceanu, N.,** Istrate, B., Munteanu, C., Koudoumas, E. (2013). Precursor concentration effect on structure and morphology of ZnO for coatings on fabric substrates. Acta Chemica Iasi, 21(2), 107–118. https://doi.org/10.2478/achi-2013-0010
WOS:000219269500005

86. Broasca, G., Borcia, G., Dumitrascu, N., **Vrînceanu, N.** (2013). Characterization of ZnO coated polyester fabrics for UV protection. Applied Surface Science, 279, 272–278 https://doi.org/10.1016/j.apsusc.2013.06.071

WOS:000320766500038

87. Hristodor, C. M., **Vrînceanu, N**., Pui, A., Novac, O.; Copcia, VE; Popovici, E. (2012). Textural and morphological characterization of chitosan/bentonite nanocomposite. Environmental Engineering and Management Journal. 11(3) 573-578 https://doi.org/10.30638/eemj.2012.070 WOS:000304498900012

88. Popovici, R.F., Alexa, IF, Novac, O; **Vrinceanu**, N., Popovici, E.; Lupusoru, CE, Voicu, VA (2011). Pharmacokinetics study on mesoporous silica–captopril-controlled release systems. Digest Journal of Nanomaterials and Biostructures, 6(4), 1619–1630, WOS:000300568100018

89. Grigoriu, A. M., Luca, C., **Vrinceanu N**., Ciolacu, F. (2011). Inclusion compounds of monochlorotriazinyl-β-cyclodextrin grafted on paper supports. Cellulose Chemistry and Technology, 45(3–4), 177–183. WOS:000292347400006

90. Coman, D., Oancea, S., **Vrînceanu, N**. (2010). Biofunctionalization of textile materials by antimicrobial treatments: A critical overview. Romanian Biotechnological Letters, 15(1), 4913–4921. WOS:000275272200001

Lucrari indexate in volumele conferintelor ISI Web of Knowledge

1. **Narcisa Vrinceanu**, Diana Coman, The correlation between structural attributes and magnetic shielding of some metal nanoparticles engineered polymeric surfaces, http://authors.elsevier.com/authorforms/MATPR30609/8bcfb337487f4626a9000f5b3b4d7aea Materials Today: Proceedings Volume 62 (**2022**) 2399–2403. (paper presented as oral at DAS 2021, Linz, Austria, september. DOI10.1016/j.matpr.2022.02.563 Special Issue SI
2. **Narcisa Vrinceanu**, Noureddine Ouerfelli, Diana Coman, New Graphical Predictions of Some UV Radiation and Water Shielded Attributes of Polymeric Supports with Direct Implication in Comfort Performance, In: Msahli, S., Debbabi, F. (eds) Advances in Applied Research on Textile and Materials - IX. CIRATM **2020**. Springer Proceedings in Materials, vol 17. Springer, Cham. https://doi.org/10.1007/978-3-031-08842-1_33 , pages 204-209, ISBN 978-3-031-08842-1
3. **Narcisa Vrinceanu**; Paraschiva Postolache; Cristina Mihaela Rimbu, a Controversial Research Approach: How a Polymer Coated Nanoceria-Based System Can Have Antibacterial Behavior, Chest. 2016;149(4_S):A99. doi:10.1016/j.chest.2016.02.104, http://journal.publications.chestnet.org/article.aspx?articleid=2511500; http://journal.publications.chestnet.org/data/Journals/CHEST/935163/02104.pdf
4. Paraschiva Postolache; Adeline Tintila; Ana Maria Mantea, MD; Maria Roxana Nemes, PhD; Oana Claudia Deleanu, PhD; Liliana Chelariu, RT; Cristina Lacatusi; Daniela Husanu; **Narcisa Vrinceanu**, Comorbidities and Pulmonary Rehabilitation in Patients With Chronic Obstructive Pulmonary Disease, Chest. 2016;149(4_S):A487. doi:10.1016/j.chest.2016.02.508, http://journal.publications.chestnet.org/article.aspx?articleid=2511895, http://journal.publications.chestnet.org/data/Journals/CHEST/935163/02508.pdf
5. Paraschiva Postolache, Danut Dumitru Dumitrascu, Diana Coman, **Narcisa Vrinceanu**, Waste-water management by a comparative research of photocatalytic performance belonging to coupled ZnO/SnO2 nanocomposites against degradation of textile dyes, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa

University of Medicine and Pharmacy, Iaşi, Romania, November 19-21, 2015, http://www.ehbconference.ro/Portals/0/PROGRAM_DETAILAT.pdf

6. Bogdan Alexandru Hagiu, **Narcisa Vrinceanu**, Paraschiva Postolache, The Hypothesis Regarding the Regenerative Action of Silver Nanoparticles, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa University of Medicine and Pharmacy, Iaşi, Romania, November 19-21, 2015, http://www.ehbconference.ro/Portals/0/PROGRAM_DETAILAT.pdf
7. Diana Coman, **Narcisa Vrinceanu**, Milena Dinu, Calin Remus Cipaian, New Alternative in the Methodology of Extraction and Dyeing with Active Molecules Derived from Vegetal Sources Article PROTCY2143, Journal title: Procedia Technology, 2016, Procedia Technology, **2016**, pp. 187-194, 10.1016/j.protcy.2016.01.043, http://authors.elsevier.com/sd/article/S221201731600044X; http://ac.els-cdn.com/S221201731600044X/1-s2.0-S221201731600044X-main.pdf?_tid=8ee90530-015a-11e6-856f-00000aacb361&acdnat=1460540093_1b413dd7995adc904fd71fd8b279a227

Lucrări indexate BDI publicate în ultimii 10 ani

1. Andra-Sabina Neculai-Valeanu, Adina-Mirela Ariton, Cristina-Mihaela Rimbu, **Narcisa Vrinceanu**, Farm-to-Fork SMART LABEL for Increasing Consumer Trustand Ensuring Support for Local Milk and Dairy Producers, Biol. Life Sci. Forum 2021, The 2nd International Electronic Conference on Foods - "Future Foods and Food Technologies for a Sustainable World**",** https://doi.org/10.3390/Foods2021-11030https://sciforum.net/manuscripts/11030/manuscript.pdf
2. Iorgoaiea Guignard M., Coman D., Agop M., Ouerfelli N., Miricescu M., **Vrinceanu N**., Iancu D.T., Dumitrașcu D.D., Grădinaru I., *Research on the Relationship Between Surface Engineering and Deformation Response of Some Natural Polymeric Nanofibrous Systems. Possible Applications in Medicine*, Journal of Computational and Theoretical Nanoscience, vol. 14, no.1, p. 536–544, **2017**, ISSN: 1546-1955 (Print); EISSN: 1546-1963 (Online), DOI: https://doi.org/10.1166/jctn.2017.6360
3. Broască G., Borcia G., Dumitrașcu N., Cioca M., Coman D., Ourfelli N., **Vrînceanu N**., *Fundamental and practical aspects concerning the characterization of smart textiles*, The 8th International Conference on Manufacturing Science and Education – MSE 2017 ―Trends in New Industrial Revolution‖ 7-9 June, **2017**, Sibiu, Romania, Book of Abstracts, p.35, MATEC Web of Conferences, volume 121 (2017), Article Number 01001, DOI: https://doi.org/10.1051/matecconf/201712101001
4. Irina Gradinaru, **Narcisa Vrinceanu**, Irina Nica, *Mathematical Modeling Applied to a Database Nanofibres BasedDental Systems*, International Dental Journal 2016; 66 (Suppl. 1): 2--56© **2016** The Authors. International Dental Journal © 2016 FDI World Dental Federation, http://onlinelibrary.wiley.com/doi/10.1111/idj.12266/epdf
5. Irina Gradinaru, Irina Nica, **Narcisa Vrinceanu**, *New Approach of Dendrimers as Additives to DentalNanocomposite Fibers*, International Dental Journal **2016**; 66 (Suppl. 1): 2--56© 2016 The Authors. International Dental Journal © 2016 FDI World Dental Federation, http://onlinelibrary.wiley.com/doi/10.1111/idj.12266/epdf
6. **Narcisa Vrinceanu**, *Research onto use of New Textile Friction Composites in the Reduction of Non-exhaust Emissions,* Textile Science and Engineering, 4(2), **2014**, ISSN: 2165-8064, http://dx.doi.org/10.4172/2165-8064.1000152 http://www.omicsgroup.org/journals/research-onto-use-of-new-textile-friction-composites-in-the-reduction-of-non-exhaust-emissions-2165-8064.1000152.pdf
7. D Coman, **N Vrînceanu**, S Oancea, C Rîmbu, Coloristic and antimicrobial behaviour of polymericsubstrates using bioactive substances, ModTech International Conference - Modern Technologies in Industrial Engineering IV IOP Publishing, IOP Conf. Series:

Materials Science and Engineering 145 (2016) 032003 doi:10.1088/1757-899X/145/3/032003; http://iopscience.iop.org/article/10.1088/1757-899X/145/3/032003/pdf

8. B. A. Hagiu, P. Postolache, **N. Vrinceanu**, The hypothesis regarding the regenerative action of silver nanoparticles, E-Health and Bioengineering Conference (EHB), 2015, 1 – 4,, INSPEC Iasi, 10.1109/EHB.2015.7391524, IEEE, http://ieeexplore.ieee.org/Xplore/defdeny.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D7391524&denyReason=-134&arnumber=7391524&productsMatched=null&userType=inst, ISBN:978-1-4673-7544-3
9. P. Postolache ; D. D. Dumitrascu ; D. Coman**; N. Vrinceanu**, Waste-water management by a comparative research of photocatalytic performance belonging to coupled ZnO/SnO2 nanocomposites against degradation of textile dyes, Print ISBN:978-1-4673-7544-3, INSPEC Accession Number: 15753081, Iasi, 10.1109/EHB.2015.7391528,IEEE, http://ieeexplore.ieee.org/Xplore/defdeny.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D7391524&denyReason=-134&arnumber=7391524&productsMatched=null&userType=inst
10. COMAN Diana, **VRÎNCEANU Narcisa** and CIPĂIAN Remus Călin, Health-improved Textiles Obtained by Heat Surface Ecodyeing Treatments, Advanced Materials Research Vol. 1128 (2015) pp 322-331 (2015) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.1128.322; http://www.ttp.net/978-3-03835-637-0/5.html
11. **Narcisa Vrinceanu**, *Research onto use of New Textile Friction Composites in the Reduction of Non-exhaust Emissions,* Textile Science and Engineering, 4(2), 2014, ISSN: 2165-8064, http://dx.doi.org/10.4172/2165-8064.1000152 http://www.omicsgroup.org/journals/research-onto-use-of-new-textile-friction-composites-in-the-reduction-of-non-exhaust-emissions-2165-8064.1000152.pdf
12. Coman D., **Narcisa Vrînceanu**, Oancea S., ―Innovative eco-dyed composites obtained by inclusion procedure‖, *Welding and Material Testing, The Bulletin of the National R&D Institute for Welding and Material Testing – ISIM* Timişoara, Romania, Nr.1, 2014, ISSN 1453-0392. [CSA - Metadex (USA), CSA - Technology Research Database (USA), Weldasearch (UK) and in international catalogues of abstracts *Welding Abstracts* (UK) and *IIS-Data* (Italia)]. isim.ro/bid_arhiva/bid2014/coman_1-2014.pdf
13. Coman D., Oancea S., **Narcisa Vrinceanu**, Florea M., "Study of Raspberry Applications as Textile Colorant on Natutral Fibres", *Annals of University of Oradea, Fascicle of Textiles, Leatherwork*, XV(2), pp. 43-46, 2014, ISSN 1843 – 813X. [Ulrich's Update- Periodicals Directory, DOAJ (Directory of Open Access Jourbals), Directory of Research Journals Indexing (DRJI), SCIPIO] http://textile.webhost.uoradea.ro/Annals/AUO-FTL-VolumeXV-%20No%202-2014.pdf
14. Suchea M., Tudose I.V., **Narcisa Vrînceanu**, Istrate B., Munteanu C., Koudoumas E.: ―Precursor concentration effect on structure and morphology of ZnO for coatings on fabric substrates‖, *Acta Chemica Iasi*, 21(2), 2013, pp. 107-116, ISSN 2067 – 2438, ISSN online 2067 – 2446 (DOI: 10.2478/achi-2013-0010). http://www.chem.uaic.ro/files/File/acta-chemica/ac_vol21_no2_2013/4.pdf
15. Coman D., Oancea S., **Narcisa Vrînceanu: ―**Research on application of bilberry extract in natural textile dyeing technology, *Annals of the University of Oradea, Fascicle of Textiles, Leatherwork*, XIV(1), 2013, pp. 152-156, ISSN -1843-813X. indexed Ulrich's Update-Periodicals Directory, DOAJ (Directory of Open Access Jourbals), Directory of Research Journals Indexing (DRJI), SCIPIO

http://textile.webhost.uoradea.ro/Annals/Volume%20XIV-%20Nr1-2013.pdf

16. Pui A., **Narcisa Vrînceanu**, Coman D., Oancea S., Rimbu C., Neagu I.: ―The effect of surface modification pattern onto antibacterial features of textiles‖, *Annals of the University of Oradea, Fascicle of Textiles, Leatherwork*, XIII(1), 2012, pp. 133-138, ISSN-

17. 1843-813X. indexed Ulrich's Update- Periodicals Directory, DOAJ (Directory of Open Access Jourbals), Directory of Research Journals Indexing (DRJI), SCIPIO http://textile.webhost.uoradea.ro/Annals/Volume%20XIII%20%20No%201.pdf
18. Coman D., **Narcisa Vrînceanu**, Oancea **S.**, Neagu I.: ―Research on ecodyeing textile materials with natural extract‖, *Annals of the University of Oradea*, *Fascicle of Textiles, Leatherwork,* XII (1), 2012, pp. 76-81, ISSN-1843-813X. indexed Ulrich's Update Periodicals Directory, DOAJ (Directory of Open Access Jourbals), Directory of Research Journals Indexing (DRJI), SCIPIOhttp://textile.webhost.uoradea.ro/Annals/Volume%20XIII%20%20No%201.pdf
19. Broască G., Champagne C., Fărîmă,D., Ciocoiu M., Iorgoaea M., **Narcisa Vrînceanu**: ―Experimental Research concerning the stability of treatment with zincoxide applied to synthetic textile materials*", Bulletin of Poyitechnic Institute of Iasi*, Section of Chemistry and Chemical Engineering, Tome LVIII (LXII), Fasc. 1, 2012, pp. 19-28, ISSN: 0254 – 7104. IndexedIndex Copernicus (http://www.ch.tuiasi.ro/0611buletin.html), http://www.ch.tuiasi.ro/pdf/cercetare/buletin/bul_ipi_2012_1.pdf; http://biosacc.xhost.ro/pdf/publications/BDI/2012/1_2012_Simion.pdf
20. Coman D., Oancea S., **Narcisa Vrinceanu**, Stoia M.: ―Frontiers in the use of antibiotics:applications for biomedical textiles‖, *Acta Medica Transilvanica*, vol. II(2), 2013, pp. 216-219, ISBN 978-606-12-0204-1. Indexed IDB, INDEX COPERNICUS, http://wwww.indexxcopernicus.com/, EBSCOhost™, Registered in the Nomenclature of the Medical Journals accredited by the Romanian College of Physicians**.** http://www.amtsibiu.ro/current-is

C. 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. Alkhaldi, 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, **NarcisaVRINCEANU,** *Preparation and antibacterial performance of xanthan gum-basedcomposite 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 orala

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 orala

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 orala.

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 UVIrradiation, RICCCE 21, 21st Romanian InternationalConferenceon Chemistry and Chemical Engineering, Constanta – Mamaia, ROMANIA, septembrie 2019.
6. Iorgoaiea Guignard M., Campagne C., Giraud S., Brebu M., **Narcisa Vrinceanu**, Suchea 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) Procedings [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
7. Coman D., **NarcisaVrînceanu**, 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
8. Coman D., Oancea S., **Narcisa Vrînceanu**: ―Studies regarding the investigation of the textile substrates dyed with natural extracts‖ *Proceedings of the 4th International Proficiency Testing Conference 2013* pp. 250-255, 2013, ISSN 0949-1775 www.pt-conf.org
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 nanosizedclay- SnO2 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
12. **Narcisa Vrinceanu**, Hristodor C.M., Tanasa D., Popovici E., Brinza F., Toma S., Coman D., Cirsmariu 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

D. Brevete obținute în întreaga activitate

E. Sandu I.C.A., Vasilache V., Sandu I., **Narcisa Vrînceanu**., 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&iepatch=.pdf

PROIECTE DE CERCETARE

Nationale - director

1. Contract de cercetare nr. 25/18.11.2025, Denumirea proiectului: NANO-FILTER – Development of Electrospun Nanofiber-Coated Metal Meshes for Toxic Waste Retention from Gas Power Plants/Dezvoltarea de site metalice acoperite cu nanofibre obținute prin electrofilare in vederea retenției deșeurilor toxice provenite de la centralele pe gaze, 25.11.2025- 20.11.2027 – **Director de proiect**
2. UEFISCDI: PN-III-P1-1.1-MCD-2019-0127, 10-16 octombrie 2019;
3. 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 Norvegia, Vestfold Campus, Contract no 43/09.08.2018;
4. PN-III-P1-1.1MC- 2018-2529, 1 noiembrie – 1 decembrie 2018, la universitatea TEI of Crete, Heraklion, Grecia, UEFISCDI;
5. PN-III-P1-1.1-MCD-2017-0104, noiembrie 2017

Nationale – membru

1. 15 ianuarie 2023-31 martie 2023, proiectul Hochwertiger Kalksandstein mit *Recyclingmaterial aus Porenbeton zur Steigerung der Ressourceeneffizienz, Teilprojekt : Rezepturformulierung und Verfahrensentwicklung in situ-Ramanspektroskopie im Labormaβ* - TBI project TBI-V-1-399-VBW-137 la Wismar University of Applied Sciences (remuneration according to pay group E 13 TV-L)
2. 01.05.2013-2016 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**,** buget 792.220 lei
3. 2013-2014 Proiect de cooperare bilaterala Romania - Italia, "Peptaibiotics, an alternative to beta-lactam antibiotics: design, synthesis, bioactivity and textile functionalization" no. 3795/2012, UEFISCDI; Buget € 8076,8 http://www.research.ro/uploads/programe-internationale/cooperari-bilaterale/rezultate-finale/rezultate-finale-_annex-2_upload-italia.pdf ;
4. Contract nr. 127/01.10.2007 in cadrul proiectului CNCSIS 423, IDEI, Tema nr. 423, http://www.afir.org.ro/id423/files/2009.htm;
5. membru in cadrul proiectului CEEX 3002/2005, cu titlul Biophotonic Nanotehnologies Applied In Textile Industry With Benefic Effects Onto Human Organsim, prin Biofotontex Garments (Buget € 550.000; 2005-2008 http://www.textuiasi.ro;

a.Proiecte internationale:

Bursier PI in proiectul de cercetare Marie Curie, finanat 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;

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;

Coordonator al granturilor interne de cercetare Hasso Plattner:
(i). Contract nr. 3574/24.07.2023, *Modeling of the effect of hyaluronidase on the synovial viscosity/rheological behavior, with application in rheumathology* **2023-2025**; **(director de proiect)**; **finantare granturi individuale ULBS-Hasso Plattner**

(ii). Contract nr. 3574/12.12.2024, *New methodologies of electrospinning to obtain materials with bacterial control/Noi metodologii de electrofilare, in vederea obtinerii de materiale cu control antibacterian",* **2024-2026**; **finantare granturi individuale ULBS-Hasso Plattner**

(iii) *Mathematical Modeling And Analysis for Predictions and Control Procedure for Novel Covid- 19/Modelare si analiza matematica in predictia si procedeul de evaluare a noului COVID-19* **2022-2025**;

(iv) 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 **;**

(iv) Contract 5421/27.07.2016 *The Development and Validation of o research database made of nanoofibres based system with different surface architectures*", **2016-2019**, http://cercetare.ulbsibiu.ro/docs/rapoarte/Proiecte/interne/interne_2016.pdf;

(v). *Alternative Polymeric eco-composites with performance in friction*, **2015–2017**, nr. contract – 20132/25.05.2015, http://cercetare.ulbsibiu.ro/docs/rapoarte/Proiecte/interne/interne_2015.pdf;

Post doc in cadrul proiectului de cercetare post-doctorala: *Photocatalytic oxidic nano-coatings for protection the fibrous substrates, previously microstructured by irradiation*, Buget: 4783736 Euro, finantat de POSDRU, finantat de Agentia FSE (Fonduri sociale europene) iulie 2010- martie 2013, http://www.postdoc-uaic.ro/index.php?page=whoswho&id=47;

Mobilitati ERASMUS, ca profesor invitat:

- Participare la Simpozionul UBE-FORTHEM Chemistry Symposium, desfășurat între 11 - 13 iunie 2025 la Dijon, Franta, în domeniul educației și cercetării în Chimie.
- - Mobilitate ERASMUS+ programme, STA, la Université Côte d'Azur –Polytech'Nice Sophia, Franta, Institute of Chemistry of Nice (ICN), in perioada 13.06-19.06.2024, 1035 Euro, contract no. 2023-1-RO01-KA131-000130652
- 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 20018;
- 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 inivitat;
- 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, la Buskerud and Vestfold University College, Norway, Aprilie 2016, http://www.ulbsibiu.ro/ro/stiri/news.php?news_id=2582, la Buskerud and Vestfold University College – cercetator invitat.

Data: **Semnătura:**

25 noiembrie 2025