Europass
Curriculum Vitae

Personal information

First name(s) / Surname(s)	**ANDRONIC LUMINITA CAMELIA**
Orcid Identifiers	https://orcid.org/0000-0002-3764-7313
SCOPUS	https://www.scopus.com/authid/detail.uri?authorId=15126824300
Web of Science Researcher	https://www.webofscience.com/wos/author/record/1194319 ID: B-6474-2009
Google Scholar	https://scholar.google.com/citations?user=N3nYhV4AAAAJ&hl=en&oi=ao
Address(es)	Eroilor, 29, 500036, BRASOV, ROMANIA
E-mail	andronic-luminita@unitbv.ro
Nationality	Romanian
Gender	female

Desired employment / Occupational field **Transilvania University of Brasov, Product Design and Environmental Faculty**

Work experience

Dates	**02.2019**
Occupation or position held	Professor
Main activities and responsibilities	Teaching courses: Chemistry, Wastewater Treatment (Bachelor level), Integrated technologies for wastewater treatment and soil decontamination, Life cycle assessment and Project management (Master level), Guidance for student thesis, practice guidance (tutoring); Mentoring student scientific research.
Name and address of employer	Transilvania University of Brasov, Product Design and Environment Faculty, Eroilor, 29, 500036, Brasov-Romania
Type of business or sector	Education and Research
Dates	**03.2013-02.2019**
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching courses: Chemistry and Wastewater Treatment (Bachelor level), Advanced (Waste)Water Treatment and Environmental Chemistry (Master level), Guidance for student thesis, practice guidance (tutoring); Mentoring student scientific research.
Name and address of employer	Transylvania University of Brasov, Product Design and Environment Faculty

Type of business or sector	Education and Research
Dates	**03.2008-03.2013**
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching courses, seminars and laboratories, and academic guidance works
Name and address of employer	Transilvania University of Brasov, Product Design and Environmental Faculty,
Type of business or sector	Education and Research
Dates	**10.2003-03.2008**
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching seminars and laboratories
Name and address of employer	Transilvania University of Brasov, Product Design and Environment Faculty, Eroilor, 29, 500036, Brasov-Romania
Type of business or sector	Education and Research

Education and training

Dates	08.08.2018
Title of qualification awarded	**Habilitation in Environmental Engineering**
Name and type of organisation providing education and training	Technical University of Cluj-Napoca-Romania
Dates	**06.2010-05.2013**
Title of qualification awarded	**Postdoctoral researcher**
Main activities and responsibilities	Research and reporting according to a set plan in national and international projects (95%). The instruction associated with this research (5%).
Principal subjects/occupational skills covered	Ceramic materials, Semiconductors, Materials synthesis (sol-gel, doctor blade, photochemical deposition, spray pyrolysis deposition), Materials characterisation (XRD, FT-IR, AFM, contact angle, UV-VIS, DSC, optoelectronic properties), Wastewater analysis and treatment, Advanced Oxidation Process, Photocatalysis,
Name and type of organisation providing education and training	Transilvania University of Brasov-Romania
Dates	**10.2003-02.2010**
Title of qualification awarded	**Doctor of Science (Material Science and Engineering)**
Main activities and responsibilities	Research and reporting according to a set plan in national and international projects. Research according to a set plan for thesis. Instruction and thesis supervision.
Principal subjects/occupational skills covered	Ceramic materials, Semiconductors, Materials synthesis (sol-gel, doctor blade, photochemical deposition, spray pyrolysis deposition), Materials characterisation (XRD, FT-IR, AFM, contact angle, UV-VIS, DSC, opto-electronic properties), Wastewater analysis and treatment, Advanced Oxidation Process, Photocatalysis,
Name and type of organisation providing education and training	Transilvania University of Brasov-Romania
Dates	**10.2006-02.2008**
Title of qualification awarded	Master of Science

Principal subjects/occupational skills covered	Nanomaterials in Environmental and Industry, Advanced Environmental Chemistry, Metrology in Chemistry, Basic of RES, Advanced Polymers, Sustainable Development, ECO Design, Environmental Impact Assessment, Project Development, Environmental Biotechnology, Electrochemical and Mechanical Corrosion
Name and type of organisation providing education and training	Master: Applied Chemistry in Environment and Industry Transilvania University of Brasov-Romania
Dates	**10.1990-07.1995**
Title of qualification awarded	Bachelor in chemistry and physics
Principal subjects/occupational skills covered	Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Catalysis and Catalyst, Macromolecular Chemistry, Physical-Chemistry, Electrochemistry, Physics of solids,
Name and type of organisation providing education and training	Babes-Bolyai University, Faculty of Chemistry and Engineering Chemistry, Cluj-Napoca-Romania
Training	- Advances in Nanocomposite materials: preparation and characterization, Bucharest, 2012-grant COST (COST-TS-ECOST-TRAINING_SCHOOL-MP0902-030912-020683). - Eco-chemie SPR – Electrochemistry and Corrosion – Seminar and Training, Brasov, Romania, 2006. - Atomic Force Microscopy (AFM) - Training, Brasov, 2006. - Conservation and Sustainable Development of River Mouth Ecosystems, Wetlands and Lagoons, NATO Science Programme, Advance Study Institute, Galati, Romania, 2004.

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment	**Understanding**		**Speaking**		**Writing**
European level	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	B2	B2	B2	B2

Social skills and competences

- Educational skills. Organization and participation in teamwork with young people.
- I adapt well to multicultural environments and to working in multi-language teams.
- I have a good communication capacity.

Technical skills and competences

- As a part of my research, I was responsible for setting up and maintaining our in-house databases.
- Competences in advanced materials characterization (AFM, SEM, XRD, UV-VIS, FT-IR) and wastewater characterization (UV-VIS, TOC, AAS)

Organisational skills and competences

I was a member in the organizing committee of many international conferences: The International Conference on Trends in Environmental Education-EnvEdu Brasov, Romania, editions: 2005, 2006, The International Conference on Materials Science & Engineering-BRAMAT- Brasov, Romania, editions: 2005, 2007, The International Conference for Sustainable Energy-CSE-Brasov, Romania, edition 2005, 2008, 2011, 2011, 2014, 2017

- Able to contribute effectively to immediate and external teams.
- Able to lead small research teams and/or large fieldwork teams effectively.
- Able to establish and maintain effective communication with other team members.

Computer skills and competences

Microsoft Office, Corel Draw, Origin, ChemOffice, and so on.

Membership in professional and scientific associates

Romanian Society of Chemistry-since 2006
Materials Research Society-2026

Scientific expert positions

Reviewer in scientific ISI journals: Thin Solid Film, Vacuum, Journal of Hazardous Materials, Chemical Engineering Journal, Materials Science and Engineering B, Materials Letter, Materials Chemistry and Physics, Central European Journal of Chemistry, Desalination, Journal of Catalysis, Applied Catalysis B: Environmental, Molecules.

Peer-review activity for international programs/projects

Project evaluator for the international project: WATER JPI 2018, Sultan Qaboos University, University of Camerino, Italy, National Science Centre Poland

Project evaluator in H2020 calls:

- HORIZON-CL5-2021-D3-03-03: Hybrid catalytic conversion of renewable energy to carbon-neutral fuels,
- HORIZON-JTI-CLEANH2-2022-1, Clean Hydrogen JU Call 2022-1, HORIZON-JTI-CLEANH2-2022-01-03: Development of low-temperature water electrolysers for highly pressurised hydrogen production
- HORIZON-JTI-CLEANH2-2022-2, Clean Hydrogen JU Call 2022-2
- IHI / Innovative Health Initiative Joint Undertaking, 2023

Technical and scientific evaluator for the international projects:

M-ERA NET, COFUND-WATER WORKS ERANET, ERA-SIINN, ERANET-COFASP, ERANET-INCOMERA, ERANET-MARINE BIOTECHNOLOGY, ERANET-PROSAFE, ERANET-MANUNET II

Technical and scientific evaluator for the national project- UEFISCDI – BRIDGE GRANT, INNOVATIVE CLUSTER, PN II

Diploma of Excellence in 2013 for remarkable results in a scientific activity offered by Brasov County Council, Romania

Guest Editor invited at special issue "Structurally and Elementally Promoted Nanomaterials for Photocatalysis", Journal: International Journal of Photoenergy, 2014.

Guest Editor invited at Research Topic: Solid Inorganic Structures for the Catalytic Wet Oxidation of Industrial Organic Pollutants in Water, In Frontiers in Chemistry, 2019 (Impact factor: 5.545 in 2022), Editors: Kun Liu, Luminita Andronic, Jose G. Carriazo.

Guest Editor invited at Special Issue "Nanomaterials and Nanotechnology for Detection, Identification and Removal of Contaminants", in Nanomaterials (Impact Factor: 5.719 in 2022), Editors: Luminita Andronic, Smagul Karazhanov, Vitor Vilar

Guest Editor invited at Special Issue "Green Synthesis of Nanomaterials for Environmental and Biomedical Applications", in Nanomaterials (Impact Factor: 5.719 in 2022), Editors: Luminita Andronic, Jagpreet Singh

Guest Editor invited at Special Issue "Applications of Nanomaterials for Electrocatalysis, Photocatalysis, Photoelectrochemical Solar Cells and Toxicity", in Nanomaterials (Impact Factor: 5.719 in 2022), Editors: S. Karazhanov, L. Andronic

Scopus Author metrics: ISI articles: **66,** citations (Scopus): **1978**, International collaboration **40%, Documents in top citation percentiles: 72%,** Documents in top **25%** journals: 88%, FWCI:**1.31 Hirch index**: SCOPUS**: 28**, Web of Science**: 27**, Google Scholar**: 31**.

Project management experience (in the last 6 years)

Year	Project title - Role – Funder – Budget – link to project webpage
2026-2030	CERSUS, PN-IV-P6-6.1-CoEx-2024-0056: **Center of Excellence in Water Management, Valorization of Materials, By-products and Waste for the Implementation of Circular Bioeconomy**
2026-2027	INNO-AGRIHYDRO, PN-IV-P7-7.1-PTE-2024-0387: contract number 65PTE_08/01/2026. **Innovation in Hydroponic Agriculture through Photocatalytic Decontamination and Sustainable Crop Growth Using Eco-Fertilizers**, Partner, Total budget: 363.750 Lei (72,750 €)
2025-2026	PN-IV-P8-8.1-PRE-HE-ORG-2024-0230, contract number: 91PHE din 08/01/2025 Soluții bazate pe natură pentru demonstrarea infrastructurii critice adaptate schimbărilor climatice, Project coordinator, Total budget: 200.000 Lei (40,000 €) https://nature-demo.unitbv.ro/
2024-2028	**Nature-Based Solutions for Demonstrating Climate-Resilient Critical Infrastructure,** NATURE-DEMO, HORIZON 101157448, Partner, Total budget 8,682,008.75€ (UNITBV budget: 400,000 €) https://www.nature-demo.eu
2020-2023	**Multifunctional 3D photocatalytic systems for environmentally friendly sustainable technologies**, ERANET-M.-3D-PHOTOCAT, Grant ERANET no.169/2020, Project Coordinator, Ministry of Education and Research/ UEFISCDI, Total budget: 708.480 Lei (147,600 €) https://sites.google.com/view/3d-photocat/
2019 - 2022	**Theoretical and Experimental Study of TransItion Metal Oxyhydride Nanomaterlals for supErconductivity and photocatalysiS**, ERANET-M.-TESTIMONIES, Grant ERANET no.114/2019, Project Coordinator, Ministry of Education and Research/ UEFISCDI, Total budget: 752.000 Lei (160,000 €) https://sites.google.com/view/photocatalysis/home

Other relevant professional experiences

Year	Description - Role
Institutional responsibilities	
2020-present	Coordinator of the *Environmental Engineering Doctoral Program* at the Doctoral School of Transilvania University of Brașov
2020-2024	Council Members of the Product Design, Mechatronics and Environment Department
Membership in national committees	
2020-2024	*Member of the National Council for Certification of Titles, Diplomas, and University Certificates* (CNATDCU), *Environmental Engineering domain*: Member of the commission (2020 – 2024)
2024-2028	*Member of the National Council for Certification of Titles, Diplomas, and University Certificates* (CNATDCU), *Environmental Engineering domain*: Member of the commission (2024 – 2028)

List of publications

ARTICLES IN ISI JOURNALS

1. S. Karazhanov, **L. Andronic***, M.C. Chifiriuc, A. Bereanu, Editorial: Antimicrobial surfaces and airborne pathogens: the new frontiers in hospital safety, Front. Microbiol. 16 (2026). https://doi.org/10.3389/fmicb.2025.1752935.

2. A. Vijayan, **L. Andronic***, K. Muthusamy, S.Y. Lai, H. Arslan, A. Sarakovskis, J. Mayandi, S. Karazhanov, Silicon-modified black TiO2 photocatalysts as a sustainable platform for micropollutant degradation under full-spectrum solar irradiation, J. Photochem. Photobiol. A Chem. 475 (2026) 117061. https://doi.org/10.1016/j.jphotochem.2026.117061.

3. A. Vijayan, **L. Andronic***, S. Rangasamy, A. Galeckas, D. Abdikamalova, J. Mayandi, S. Karazhanov, Influence of silicon-modified TiO2 nanocomposites on the photocatalytic degradation of methyl orange and imidacloprid, 2026. https://doi.org/10.1515/zpch-2025-0120.

4. A. Roibu, R. Udroiu, A. Dinu, **L. Andronic**, Microfluidic platform for screening the activity of immobilized photocatalysts for degradation of water pollutants in flow, React. Chem. Eng. 10 (2025) 2345–2355. https://doi.org/10.1039/D5RE00265F.

5. Roibu A., Udroiu R., Abreu-Jaureguí C., Silvestre-Albero J., **Andronic L.** Wavelength-dependent activity screening of reduced titania for photocatalytic degradation of imidacloprid in batch and flow-mode**.** *Journal of Environmental Chemical Engineering*. 12(3) (**2024**) 112752.

6. **Andronic, L.;** Abreu-Jaureguí, C.; Silvestre-Albero, J. Construction of TiO_2@Cu_2O-CuS Heterostructures Integrating RGO for Enhanced Full-Spectrum Photocatalytic Degradation of Organic Pollutants. *J. Alloys Compd.* 994 (**2024**) 174682.

7. Abreu-Jaureguí C., **Andronic L.,** Sepúlveda-Escribano A., Silvestre-Albero J. Improved photocatalytic performance of TiO_2/carbon photocatalysts: Role of carbon additive. *Environmental Research.* 251 (**2024**) 118672.

8. Kasi Vinoth Kumar, **Luminita Andronic**, Elbruz Murat Baba, Dargie Deribew, Jeyanthinath Mayandi, Ellen Moons, Smagul Zh. Karazhanov, Experimental and Theoretical Investigation of Gadolinium Oxyhydride (GdHO) Thin Films: Optical, Photocatalytic, and Electronic Properties, *Nanomaterials*, 13 (24) (**2023),** 3093

9. Cazan, C.; Enesca, A.; Isac, L.; **Andronic, L.;** Cosnita, M. Accelerated Aging of Polymeric Composites Based on Waste with TiO_2 Fillers. *ACS Appl. Polym. Mater*. 5 (6) (**2023**) 3958–3970.

10. **Luminita Andronic**, Damir Mamedov, Cristina Cazan, Marcela Popa, Mariana Carmen Chifiriuc, Atabek Allaniyazov, Simona Palencsar, Smagul Zh Karazhanov, Cerium oxide thin films: synthesis, characterization, photocatalytic activity and influence on microbial growth, *Biofouling,* 38(9) (**2022)** 865-875

11. **Andronic L,** D Moldarev, D Deribew, E Moons, SZ Karazhanov, Photocatalytic self-cleaning properties of thin films of photochromic yttrium oxyhydride, Journal of Solid State Chemistry, 316 (**2022**) 123599

12. **Andronic, L.;** Lelis, M.; Enesca, A.; Karazhanov, S. Photocatalytic activity of defective black-titanium oxide photocatalysts towards pesticide degradation under UV/VIS irradiation. *Surfaces and Interfaces* **2022**, *32*, 102123

13. **Andronic, L.;** Ghica, D.; Stefan, M.; Mihalcea, C.G.; Vlaicu, A.-M.; Karazhanov, S. Visible-Light-Active Black TiO_2 Nanoparticles with Efficient Photocatalytic Performance for Degradation of Pharmaceuticals. *Nanomaterials* **2022**, *12(15)*.

14. Enesca, A.; Andronic, L. UV-Vis Activated $Cu_2O/SnO_2/WO_3$ Heterostructure for Photocatalytic Removal of Pesticides. *Nanomaterials* **2022**, *12*.

15. Isac, Luminita, Cazan, Cristina, Andronic, Luminita, Enesca, Alexandru, CuS-Based Nanostructures as Catalysts for Organic Pollutants Photodegradation, *Catalysts*, (**2022**) Vol. 12, No. 10

16. **Andronic, L.;** Vladescu, A.; Enesca, A. Synthesis, Characterisation, Photocatalytic Activity, and Aquatic Toxicity Evaluation of TiO_2 Nanoparticles. Nanomaterials 11 (12) (**2021**) 3197.

17. Adochite, C., **Andronic, L,** Toxicity of a Binary Mixture of TiO_2 and Imidacloprid Applied to Chlorella vulgaris, International journal of environmental research and public health 18(15) (**2021**) 7785

18. Cazan, C., Enesca, A., **Andronic, L.,** Synergic Effect of TiO_2 Filler on the Mechanical Properties of Polymer Nanocomposites, Polymers 13 (**2021**) 2017

19. Enesca A., **Andronic L.,** Photocatalytic Activity of S-Scheme Heterostructure for Hydrogen Production and Organic Pollutant Removal: A Mini-Review, Nanomaterials 11 (4) (**2021**) 871

20. Adochite C., **Andronic L.,** Aquatic Toxicity of Photocatalyst Nanoparticles to Green Microalgae Chlorella vulgaris, Water 13(1) (**2021**) 77

21. **Andronic, L.,** Isac, L., Cazan, C., Enesca, A. Simultaneous Adsorption and Photocatalysis Processes Based on Ternary TiO_2–Cu_xS–Fly Ash Hetero-Structures, *Appl. Sci.* 10 (2020) 8070.

22. **Andronic L.,** Enesca A., Black TiO_2 Synthesis by Chemical Reduction Methods for Photocatalysis Applications, Frontiers in Chemistry, 8 (2020) 982

23. Enesca A, **Andronic L.** The Influence of Photoactive Heterostructures on the Photocatalytic Removal of Dyes and Pharmaceutical Active Compounds: A Mini-Review. *Nanomaterials* 10(9) (2020) 1766.

24. Luminita Isac, **Luminita Andronic**, Maria Visa, Alexandru Enesca, Selective photocatalytic degradation of organic pollutants by $Cu_xS/ZnO/TiO_2$ heterostructures, Ceramics International 46(4) (2020) 4265-4273.

25. Isac Luminita, Cazan Cristina, Enesca Alexandru, **Andronic Luminita**, Copper Sulfide Based Heterojunctions as Photocatalysts for Dyes Photodegradation, Frontiers in Chemistry 7 (2019) 694-703.

26. A. Duta, **L. Andronic**, A. Enesca, The influence of low irradiance and electrolytes on the mineralization efficiency of organic pollutants using the Vis-active photocatalytic tandem $CuInS_2/TiO_2/SnO_2$, Catalysis Today 300 (2018) 18 – 27.

27. **L. Andronic**, L. Isac, S. Miralles-Cuevas, M. Visa, I. Oller, A. Duta, S. Malato, Pilot-plant evaluation of TiO_2 and TiO_2-based hybrid photocatalysts for solar treatment of polluted water, Journal of Hazardous Materials 320 (2016) 469-478.

28. M. Visa, **L. Andronic**, A. Enesca, Behavior of the new composites obtained from fly ash and titanium dioxide in removing of the pollutants from wastewater, Applied Surface Science 388 (2016) 359-369.

29. M. Visa, **L. Andronic**, A. Duta, Fly ash TiO_2 nanocomposite material for multi-pollutants wastewater treatment, Journal of Environmental Management 150 (2015) 336-343.

30. **L. Andronic**, A. Enesca, C. Cazan, M. Visa, TiO_2-active carbon composites for wastewater photocatalysis, Journal of Sol-Gel Science and Technology 71 (2014) 396-405.

31. A. Enesca, L. Isac, **L. Andronic**, D. Perniu, A. Duta, Tuning SnO_2-TiO_2 tandem systems for dyes mineralization, Applied Catalysis B: Environmental 147 (2014) 175-184.

32. **L. Andronic**, D. Perniu, A. Duta, Synergistic effect between TiO_2 sol-gel and Degussa P25 in dye photodegradation, Journal of Sol-Gel Science and Technology, 66 (3) (2013) 472-480.

33. L. Isac, **L. Andronic**, A. Enesca, A. Duta, Copper sulfide films obtained by spray pyrolysis for dyes photodegradation under visible light irradiation, Journal of Photochemistry and Photobiology A: Chemistry, 252 (2013) 53– 59.

34. **L. Andronic**, A. Duta, Photodegradation of dyes in binary systems-simultaneous analysis by first-order spectra derivative method, Chemical Engineering Journal, 198-199 (2012) 468–475.

35. R.A. Carcel, **L. Andronic**, A. Duta, Photocatalytic Activity and Stability of TiO_2 and WO_3 Thin Films, Materials Characterisation, 70 (2012) 68-73.

36. A. Enesca, L. Andronic, A. Duta, Optimization of optoelectrical and photocatalytic properties of SnO_2 thin films using Zn^{2+} and W^{6+} dopant ions, Catalysis Letter 142 (2012) 224-230.

37. A. Enesca, **L. Andronic**, A. Duta, The influence of surfactants on the crystalline structure, electrical and photocatalytic properties of hybrid multi-structured (SnO_2, TiO_2 and WO_3) thin films, Applied Surface Science 258 (2012) 4339-4346.

38. **L. Andronic**, A. Duta, The influence of precursor's composition and concentration on cadmium doped TiO_2 film, Central European Journal of Chemistry, 10(1) (2012) 85-90.

39. R. A. Carcel, **L. Andronic**, A. Duta, Photocatalytic degradation of methylorange using TiO_2, WO_3 and mixed tthin films under controlled pH and H_2O_2, Journal of Nanoscience and Nanotechnology 11 (2011) 9095-9101.

40. **L. Andronic**, L. Isac, A. Duta, Photochemical synthesis of Copper sulphide/Titanium oxide photocatalyst, Journal of Photochemistry and Photobiology A: Chemistry 221 (2011) 30-37.

41. **L. Andronic**, D. Andrasi, A. Enesca, M. Visa, A. Duta, The influence of titanium dioxide phase composition on dyes photocatalysis, Journal of Sol-Gel Science and Technology 58 (2011) 201–208.

42. M. Visa, **L. Andronic**, D. Lucaci, A. Duta, Concurrent dyes adsorption and photo-degradation on fly ash based substrates, Adsorption-Journal of the International Adsorption Society 17 (2011) 101-108.

43. **L. Andronic**, Photodegradation processes for advanced real wastewaters treatment, Environmental Engineering and Management Journal 10 (8) (2011) 1015-1019.

44. C. Vladuta, **L. Andronic**, A. Duta, Effect of TiO_2 nanoparticles on the interfaces PET-rubber composites, Journal of Nanoscience and Nanotechnology 10 (2010) 2518–2526.

45. A.Enesca, **L. Andronic**, A. Duta, Influence of sodium ions (Na^+) dopant on the efficiency of the tungsten trioxide photoelectrode, Revue Roumaine de Chimie 55 (2010) 11-15, FI 0.418.

46. A.M. Lazăr, I. Ciobanu, D. Chaumont, Y. Lacroute, R. Chassagnon, **L. Andronic**, M. Sacilotti, The use of TiO_2 nanostructures on the photocatalytic degradation of methylene blue, Metalurgia International 2 (2010) 26-29.

47. **L. Andronic**, A. Enesca, C. Vladuta, A. Duta, Photocatalytic activity of cadmium doped TiO_2 films for photocatalytic degradation of dyes, Chemical Engineering Journal 152 (2009) 64-71.

48. M. Visa, R.A. Carcel, **L. Andronic**, A. Duta, Advanced treatment of wastewater with methyl orange and heavy metals on TiO_2, fly ash and their mixtures, Catalysis Today 144 (1-2) (2009) 137-142.

49. **L. Andronic**, B. Hristache, A. Enesca, M. Visa, A. Duta, Studies on titanium oxide catalyst doped with heavy metals (cadmium, copper and nickel), Environmental Engineering and Management Journal 8(4) (2009) 747-751.

50. M. Visa, **L. Andronic**, A. Duta, Photocatalytic properties of titania - fly ash thin films, Environmental Engineering and Management Journal 8(4) (2009) 633-638.

51. A. Enesca, **L. Andronic**, A. Duta, Wastewater treatment using optimized TiO2 photocatalytic properties, Environmental Engineering and Management Journal 8(4) (2009) 753-758.

52. R. A. Carcel, **L. Andronic**, A. Duta, Cd^{2+} modified TiO_2 for methyl orange photodegradation, Revue Roumaine de Chimie 54(4) (2009) 311-314.

53. **L. Andronic**, S. Manolache, A. Duta, Photocatalytic degradation of methyl orange: influence of H_2O_2 in the TiO_2-based system, Journal of Nanoscience and Nanotechnology 8 (2008) 728–732.

54. C. Vladuta, **L. Andronic**, M. Visa, A. Duta, Ceramic interface properties evaluation based on contact angle measurement, Surface & Coatings Technology 202 (2008) 2448–2452.

55. **L. Andronic**, A. Duta, The influence of TiO_2 powder and film on the photodegradation of methyl orange, Materials Chemistry and Physics 112 (3) (2008) 1078-1082.

56. **L. Andronic**, A. Duta, Thin TiO_2 films for dyes photodegradation, Thin Solid Films 515(16) (2007) 6294-6297.

57. **L. Andronic**, S. Manolache, A. Duta, TiO_2 thin films prepared by spray pyrolysis deposition (SPD) and their photocatalytic activities, Journal of Optoelectronics and Advanced Materials 9(5) (2007) 1403-1406.

58. S. A. Manolache, **L. Andronic**, A. Duta, A. Enesca, The influence of the deposition condition on crystal growth and on the band gap of $CuSbS_2$ thin film absorber used for solid state solar cells (SSSC), Journal of Optoelectronics and Advanced Materials 9(5) (2007) 1269-1272.

59. A.Enesca, **L. Andronic**, A. Duta, S. Manolache, Optical properties and chemical stability of WO_3 and TiO_2 thin films photocatalysts, Romanian Journal of Information Science and Technology 10 (2007) 269-277.

OTHER ISI JOURNALS

60. A. Duta, A. Enesca, **L. Andronic**, Tailoring Photocatalytic Properties of Tungsten Oxide Thin Films, Advanced Materials Research, vol. 79-82, p. 847-850, 2009, DOI: 10.4028/www.scientific.net/AMR.79-82.847

61. **L. Andronic**, A. Duta, Influence of pH and H_2O_2 on dyes photodegradation, Physica Status Solidi C - Current Topics in Solid State Physics, vol. 5, no. 10, p. 3332-3337, 2008, DOI: 10.1002/pssc.200778880

62. **L. Andronic**, A. Duta, Titanium dioxide thin film for photodegradation of methyl orange, Advanced Materials Research, Vol. 23, p. 325-328, 2007, DOI: 10.4028/www.scientific.net/AMR.23.325

ISI CONFERENCES

63. A.Enesca, **L. Andronic**, S. Manolache, A. Duta, „ Investigation of WO_3 and TiO_2 thin films used in photocatalysis", International Semiconductor Conference, Sinaia, Romania, Book of proceeding, vol. 2, p. 241-244, IEEE proceedings: BFM58, ISBN: 1-4244-0109-7, 2006.

64. A. Duta, I. Visa, S.A. Manolache, A. Enesca, **L. Andronic**, G.R. Calin, "Nanostructured TiO_2 for Solar Energy Conversion", International Semiconductor Conference, Sinaia, Romania, Book of Proceeding, vol. 2 p. 267-270, IEEE Catalog number: 05TH8818, ISBN: 0-7803-9214-0, Library of Congress: 2005925118, 2005.

GUEST EDITOR

Guest Editors: Tian-Yi Ma, Zhan-Ying Zhang, Jian-Liang Cao, **Luminita Andronic,** Yong Ma, Lei Liu **(2014)** "*Structurally and Elementally Promoted Nanomaterials for Photocatalysis*", In: International Journal of Photoenergy, Impact factor: 2.026 in 2019 ISSN: 1110-662X.

Editors: Kun Liu, **Luminita Andronic**, Jose G. Carriazo, (**2019**) Research Topic: *Solid Inorganic Structures for the Catalytic Wet Oxidation of Industrial Organic Pollutants in Water*, In **Frontiers in Chemistry** (Impact factor: 3.782 in 2019)

Guest Editor at Special Issue "*Nanomaterials and Nanotechnology for Detection, Identification and Removal of Contaminants*", in Nanomaterials, **2020**, (Impact Factor: 4.034 in 2019), Editors: **Luminita Andronic**, Smagul Karazhanov, Vitor Vilar.

Guest Editor at Special Issue "*Green Synthesis of Nanomaterials for Environmental and Biomedical Applications*", in Nanomaterials, **2021**, (Impact Factor: 5.076 in 2021), Editors: Luminita Andronic, Jagpreet Singth

Guest editor at Special Issue "*Applications of Nanomaterials for Electrocatalysis, Photocatalysis, Photoelectrochemical Solar Cells and Toxicity*" in Nanomaterials, 2024, (Impact Factor: 4.4), Editors: Smagul Karazhanov, and **Luminita Andronic**.

Guest Editor at Special issue: Antimicrobial Surfaces and Airborne Pathogens: The New Frontiers in Hospital Safety, in Frontirs in Microbiology, 2026, (Impact Factor: 4.5), Editors: Prof. **Andronic Luminita**, Dr. Smagul Karazhanov, Prof. Dr. Mariana Carmen Chifiriuc, and Topic Coordinator Associate Prof. Alina Bereanu.