

Nume Prenume: LUTIC DOINA

Gradul didactic: Conferențiar dr.

Instituția unde este titular: Universitatea “Alexandru Ioan Cuza” din Iași

Facultatea: Chimie

Departamentul: Chimie

L I S T A LUCRĂRILOR ȘTIINȚIFICE

A. Teza de doctorat

Studiul sintezei și proprietăților catalitice în reacțiile organice ale sitelor moleculare de tip MeAPO și SAPO

B. Cărți și capitole în cărți publicate în ultimii 5 ani (2021-2025)

-

C. Lucrări indexate ISI/BDI publicate în ultimii 5 ani (2021-2025)

1. Paiu, Maria; **Lutic, Doina**; Favier, Lidia; Gavrilescu, Maria, Heterogeneous Photocatalysis for Advanced Water Treatment: Materials, Mechanisms, Reactor Configurations, and Emerging Applications, Appl. Sci. Basel, **2025**, 15, 10, p. 5681, doi: 10.3390/app15105681.
2. Paiu, Maria; Favier, Lidia; **Lutic, Doina**; Hlihor, Raluca Maria; Sergentu, Dumitru Claudiu; Alonzo, Veronique; Gavrilescu, Maria, First insight on the effective removal of pentoxifylline drug under visible-light-driven irradiation with ZnO catalyst obtained via precipitation, J. Envir. Manag., **2025**, 386, doi: 10.1016/j.jenvman.2025.125420, p. 125420.
3. Olariu, Dragos-Ioan; Platon, Vera Maria; Ibanescu, Alina; Vlad, Maria Daniela; Zara-Danceanu, Camelia Mihaela; **Lutic, Doina**; Marin, Luminita; Dragoi, Brindusa, LDH-chitosan bionanocomposites for oncologic applications: A refreshing perspective on the mutual influence through intermolecular forces toward controlled morphology and dispersion, Int. J. Biol. Macrom., **2025**, 329, p. 147495, doi:10.1016/j.ijbiomac.2025.147495.
4. Ibanescu, A., Olariu, D.I., **Lutic, D.**, Hulea, V. and Dragoi, B., Engineering the Morphostructural Properties and Drug Loading Degree of Organic-Inorganic Fluorouracil-MgAl LDH Nanohybrids by Rational Control of Hydrothermal Treatment. *ACS omega*, **2023**, 8(29), pp.26102-26121.
5. **Lutic, D.**, Sescu, A.M., Siamer, S., Harja, M. and Favier, L., **2022**. Excellent ambient oxidation and mineralization of an emerging water pollutant using Pd-doped TiO₂ photocatalyst and UV-A irradiation. *Comptes Rendus. Chimie*, 25(S3), pp.1-13.
6. **Lutic, D.**, Cretescu, I., Advanced removal of crystal violet dye from aqueous solutions by photocatalysis using commercial products containing titanium dioxide, **2022**, *Comptes Rendus. Chimie*, 25, pp.39-50.

7. Eugenia Corina Ignat, **Doina Lutic**, Gabriel Ababei, Gabriela Carja, Novel Heterostructures of Noble Plasmonic Metals/Ga-Substituted Hydrotalcite for Solar Light Driven Photocatalysis toward Water Purification, *Catalysts* **2022**, 12, 1351. <https://doi.org/10.3390/catal12111351>
8. Maria Harja, Carmen Teodosiu, Dorina Nicolina Isopescu, Osman Gencel, **Doina Lutic**, Gabriela Ciobanu, Igor Cretescu, Using Fly AshWastes for the Development of New Building Materials with Improved Compressive Strength, *Materials* **2022**, 15, 644.
9. Mahu, Elvira; Coromelci, Cristina Giorgiana; **Lutic, Doina**; Asaftei, Iuliean Vasile; Sacarescu, Liviu; Harabagiu, Valeria; Ignat, Maria, Tailoring Mesoporous Titania Features by Ultrasound-Assisted Sol-Gel Technique: Effect of Surfactant/Titania Precursor Weight Ratio, *Nanomaterials*, 11(5) **2021**, <https://doi.org/10.3390/nano11051263>.
10. Brindusa Dragoi, Cristina Mariana Uritu, Laurentiu Agrigoroaie, **Doina Lutic**, Vasile Hulea, Georgeta Postole, Adina Coroaba, Eugen Carasevici, MnAl Layered Double Hydroxide Nanosheets Infused with Fluorouracil for Cancer Diagnosis and Therapy, *ACS Applied Nano Materials*, 4, 2061–2075, **2021** (<https://doi.org/10.1021/acsanm.0c03365>).
11. Brindusa Dragoi, Cristina Mariana Uritu, Laurentiu Agrigoroaie, **Doina Lutic**, Thomas Cacciaguerra, Vasile Hulea, Eugen Carasevici, Mn-based 2D layered nanomaterials for boosting the MRI signal, *Materials Letters*, 288, 129331, **2021** (<https://doi.org/10.1016/j.matlet.2021.129331>).
12. Sescu Amalia Maria, Favier Lidia, **Lutic Doina**, Soto-Donoso Nicolas, Ciobanu Gabriela, Harja Maria, TiO₂ Doped with Noble Metals as an Efficient Solution for the Photodegradation of Hazardous Organic Water Pollutants at Ambient Conditions, *WATER*,13 (1), **2021**, p. 1-19, <https://dx.doi.org/10.3390/w13010019>.
13. Favier, Lidia; Sescu, Amalia Maria; Abdelkader, Elaziouti; Oughebbi Berthou, Laurence; **Lutic, Doina**, Urea-Assisted Synthesis of Mesoporous TiO₂ Photocatalysts for the Efficient Removal of Clofibric Acid from Water, *Materials*, 14 (20) **2021**, p. 6035-6054, <https://doi.org/10.3390/ma14206035>.

D. Lucrări publicate în ultimii 5 ani (2021-2025) în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. PAIU, M., FAVIER, L., LUTIC, D., HLIHOR, R.M. and GAVRILESCU, M., 2024. VISIBLE-LIGHT photocatalytic degradation of tartrazine using ZnO nanoparticles: PRELIMINARY phytotoxicity investigations on treated solutions, univ. *Teh Gheorghe Asachi” Din Iași*, 70(10.5281).
2. LUTIC, D. and COZMA, D.G., 2024. Statistical Processing and Correlations Between Concentrations of Some Atmospheric Pollutants in Suceava and Botosani Counties. *DE CHIMIE Издательство: SC Biblioteca Chimiei SA*.
3. Cretescu, I., Borodaev, R., Lutic, D., Soreanu, G., Lazar, L., Gitlestad, J. and Zubcov, E., 2022. Redox state assessment for the Danube water in the Sulina channel using a mobile water quality monitoring station. *Analele Universitatii “Dunarea de Jos” din Galati. Fascicola II, Matematica, Fizica, Mecanica Teoretica*, (2), pp.122-125.
4. Cretescu, I., Borodaev, R., Lutic, D., Soreanu, G., Duca, G. and Ratnaweera, H., 2023. REDOX Measurements: Inexpensive and Fast Tool for Preliminary Ecotoxicity Assessment and an Early

Warning System for Water Pollution. In *Environmental and Technological Aspects of Redox Processes* (pp. 132-148). IGI Global.

5. Soreanu, G., Cretescu, I., Lutic, D., Harja, M. and Maier, S.S., 2022. Study of microalgae influence on carbon capture from gaseous streams within the biotrickling filtration process. *International Multidisciplinary Scientific GeoConference: SGEM*, 22(4.1), pp.391-398.
6. Soreanu, G., Cretescu, I., Dragoi, E.N., Lutic, D. and Leon, F., 2022. TOWARDS LOW-CARBON EMISSION BIOTRICKLING FILTRATION OF VOLATILE ORGANIC COMPOUNDS FROM AIR: AN ARTIFICIAL NEURAL NETWORK APPROACH. *International Multidisciplinary Scientific GeoConference: SGEM*, 22(4.1), pp.429-436.

E. Brevete obținute în întreaga activitate

1. Peter Jozsa, Anita Lloyd-Spetz, **Doina Lutic**, Mehri Sanati, Jaco Visser, *Method and arrangement for detecting particles*, Patent Number(s): WO2009108091-A1; EP2255178-A1; CN101965511-A; US2011197571-A1, 2009.

Data:

16.02.2026