

M.Sc. Claudia Teodora **TEODORESCU-SOARE**

Informații personale

- Data și locul nașterii: 26.05.1989, Iași
- Cetățenie: Română
- E-mail: claudia_teodora89@yahoo.com
- Telefon: +40 742 217 255

Studii

Doctorat Octombrie 2013 - prezent

Facultate de Fizică, Universitatea Alexandru Ioan Cuza din Iași, România
Contribuții la studiul fenomenelor de suprafață ale unor materiale nanostructurate unidimensionale pe bază de oxid de titan obținute prin anodizare

Master Octombrie 2011 – Iulie 2013

Facultate de Fizică, Universitatea Alexandru Ioan Cuza din Iași, România,
Program: *Fizica Plasmei, Spectroscopie și Auto-organizare*
Credite E.C.T.S: 120/120, Medie Generală: 9.65/10.

Licență Octombrie 2008 - Iulie 2011

Facultate de Fizică, Universitatea Alexandru Ioan Cuza din Iași, România,
Program: *Fizică - Informatică*
Credite E.C.T.S: 180/180, Medie Generală: 9.87/10.

Liceu Septembrie 2004 – Iunie 2008

Colegiul Național *Mihai Eminescu*, Iași, România,
Program: *Matematică-Informatică Bilingv Engleză*,
Medie Generală: 9.75/10; Medie Bacalaureat: 9.54/10.

Articole publicate în reviste de specialitate cotate în sistemul ISI:

- 1.1. R.L. Stenzel, J.M. Urrutia, C.T. Teodorescu-Soare, C. Ionita, R. Schrittwieser, "Magnetic Dipole Discharges I. Basic Properties", *Physics of Plasmas* **20** (2013), 083503 (9pp); (doi: 10.1063/1.4817014).
- 1.2. C.T. Teodorescu-Soare, D.G. Dimitriu, C. Ionita, R.W. Schrittwieser, "Experimental investigations of the nonlinear dynamics of a complex space-charge configuration inside and around a grid cathode with hole", *Physica Scripta* **91** (2016), 034002 (7pp) (doi:10.1088/0031-8949/91/3/034002).
- 1.3. R.W. Schrittwieser, C. Ionita, C.T. Teodorescu-Soare, O. Vasilovici, S. Gurlui, S.A. Irimiciuc, D.G. Dimitriu, "Spectral and electrical diagnosis of complex space-charge structures excited by a spherical grid cathode with orifice", *Physica Scripta* **92** (2017), (doi:10.1088/1402-4896/92/4).
- 1.4. Claudia Teodora Teodorescu-Soare, C. Catrinescu, M. Dobromir, G. Stoian, Adina Arvinte, D. Luca, Growth and characterization of TiO₂ nanotube arrays under dynamic anodization. Photocatalytic activity, *J. Electroanal. Chem.* **823** (2018) pag. 388–396 (doi: 10.1016/j.jelechem. 2018.06.039).
- 1.5. C.T. Teodorescu-Soare, S.A. Irimiciuc, C. Ionita, D.G. Dimitriu, B. Hodoroaba, T. O'Hara, O. Vasilovici, L. Amarandi, R.W. Schrittwieser, Concentric double hollow grid cathode discharges, *International Journal of Mass Spectrometry* (doi:10.1016/j.ijms.2018.11.019).

- 1.6. C.T. Teodorescu-Soare, M. Dobromir, A. Ciobanu, M. Luca, G. Stoian, and D. Luca, Synthesis and optimisation of photocatalytic performance of WO₃-loaded TiO₂ nanotube array layers, *Semicond. Sci. Technol.* (2019), doi: 10.1088/1361-6641/ab1701.

Contribuții de tip Poster la Conferințe Internaționale:

- 2.1. C.-T. Teodorescu-Soare, C. Ionita-Schrittwiesser, R. Schrittwiesser, "Probe investigations of double layer in hollow-cathode discharge", *41st National Conference on Physics and Technology in Modern Education (A XLI-a Conferința Națională Fizica și Tehnologiile Educaționale Moderne)* (19 May 2012, Iași, Romania).
- 2.2. R.L. Stenzel, J.M. Urrutia, C.T. Teodorescu-Soare, C. Ionita, R. Schrittwiesser, "Basic properties of magnetic dipole discharges", *40th European Physical Society (EPS) Conference on Plasma Physics* (Espoo, Finland, 1-5 July 2013; 2 July 2013), *Europhysics Conference Abstracts* 37D (2013), P2.407.
- 2.3. S.A. Irimiciuc, C.T. Teodorescu-Soare, D.G. Dimitriu, C. Ionita, R. Schrittwiesser, "Interaction between three simultaneously produced fireballs in low-temperature plasma", *43th National Conference on Physics and Modern Education Technologies* (Iasi, Romania, 16-17-May 2014; 17 May 2014).
- 2.4. S.A. Irimiciuc, C.T. Teodorescu-Soare, C. Ionita, D.G. Dimitriu, S. Popescu, M. Agop, B.S. Schneider, R.W. Schrittwiesser, "Interaction between three fireballs In low-temperature plasma", *17th International Congress on Plasma Physics (ICPP 2014)* (Lisbon, Portugal, 15-19 September 2014; 15 September 2014), Book of Abstract (Eds. José A. Rodrigues, Bernardo B. de Carvalho, ISBN: 978-989-20-4912-0) LTP.P30.
- 2.5. R.W. Schrittwiesser, C.T. Teodorescu-Soare, D.G. Dimitriu, C. Ionita, "Complex space-charge configuration around a grid cathode with a hole", *42nd European Physical Society Conference on Plasma Physics* (Lisbon, Portugal, 22-26 June 2015; 25 June 2015), *Europhysics Conference Abstracts* 39E (2015), P4.304 (ISBN 2-914771-98-3).
- 2.6. M. Dobromir, R.P. Apetrei, C.T. Teodorescu-Soare, V. Tiron, D. Luca, "Structural, morphological and optical properties of sputtered TiO₂/WO₃ bilayers", *XXXII International Conference on phenomena in ionized gases, ICPIG*, 26-31 July 2015, Iași, Romania.
- 2.7. R. Schrittwiesser, R. Stenzel, J.M. Urrutia, C. Ionita, C.-T. Teodorescu-Soare, "Magnetron-like discharges with permanent magnet as cathode", *Joint Annual Meeting of the Austrian Physical Society (ÖPG), the Swiss Physical Society (SPG) and the Austrian and Swiss Societies for Astronomy and Astrophysics* (Vienna, Austria, 1-4 September 2015; the poster was presented during the entire meeting), Poster 674.
- 2.8. C.T. Teodorescu-Soare, D.G. Dimitriu, C. Ionita, R.W. Schrittwiesser, "Experimental investigations of the nonlinear dynamics of a complex space-charge configuration inside and around a grid cathode with hole", *International Conference on Research and Application of Plasmas (Plasma 2015)* (Warsaw, Poland, 7-11 September 2015; 10 September 2015), P5.05.
- 2.9. R. P. Apetrei, M. Dobromir, C. T. Teodorescu-Soare, and D. Luca, "Direct growth of Nb-doped TiO₂ thin films by RF magnetron sputtering on (100)Si and glass substrates", *The 14th International conference on Global research and Education*, 28-30 September 2015, Hamamatsu, Japan.
- 2.10. S. Gurlui, C.T. Teodorescu-Soare, D.G. Dimitriu, R. Schrittwiesser, C. Ionita, "Optical and electric investigations of a complex space charge structure excited by a spherical grid cathode with a hole", *27th Symposium on Plasma Physics and Technology* (Prague, Czech Republic, 20-23 June 2016).
- 2.11. M. Dobromir, R.P. Apetrei, C.T. Teodorescu Soare, C. Ursu, D. Luca, "A comparative study of WO₃/TiO₂ bilayers grown by RF magnetron sputtering and PLD", *The 15th International Conference on Global Research and Education*, 26-28 September 2016, Warsaw, Poland.
- 2.12. M. Luca, A. Ciobanu, S.I. Bejunariu, A. Ignat, C.T. Teodorescu-Soare, G. Stoian, D. Luca, "Automatic Evaluation of Surface Nanostructuring Using Image Processing", *The 16th International conference on Global research and Education, Inter-Academia*, 25-28 September 2017, Iași, Romania.
- 2.13. A. Ciobanu, M. Luca, T. Barbu, C.T. Teodorescu-Soare, Tube Center Detection in SEM Images of Titania Nanotube Arrays, Proceedings of the 14th International Conference on Development and Application Systems - DAS (2018) pag. 190–193 (doi: 10.1109/DAAS. 2018.8396094).

Prezentări orale la Conferințe Internaționale:

- 3.1. R. Schrittwiesser, R. Stenzel, J.M.Urrutia, C. Ionita, C.T. Teodorescu-Soare, "Magnetic dipole discharges", *15th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2015)* (Constanta, Romania, 2-4 July 2015; 2 July 2015), Plenary Lecture SO 01.
- 3.2. D. Luca, C.T. Teodorescu-Soare, M. Dobromir, G. Stoian, R.P. Apetrei, N. Lupu, "New perspectives in low-dimensional titania-based materials", *The 14th International conference on Global research and Education, Inter-Academia*, 28-30 September 2015, Hamamatsu, Japan.

- 3.3. R. P. Apetrei, M. Dobromir, C. T. Teodorescu-Soare, and D. Luca, "Direct growth of Nb-doped TiO₂ thin films by RF magnetron sputtering on (100)Si and glass substrates", *The 14th International conference on Global research and Education, Inter-Academia*, 28-30 September 2015, Hamamatsu, Japan.
- 3.4. R. Schrittwieser, C.-T. Teodorescu-Soare, D.G. Dimitriu, S. Gurlui, C. Ionita, O. Vasilovici, "Complex space charge structures excited by a spherical grid cathode", *16th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2016)* (Constanta, Romania, 7-9 July 2016).
- 3.5. C.T. Teodorescu-Soare, M. Dobromir, G. Stoian, D. Luca, "Preparation of Nb-doped TiO₂ nanotubes using magnetron sputtering", *The 16th International conference on Global research and Education, Inter-Academia*, 25-28 September 2017, Iași, Romania.
- 3.6. D. Luca, C.T. Teodorescu-Soare, M. Dobromir, A. Ciobanu, M. Luca, G. Stoian, Improving the photocatalytic activity of self-ordered titania nanotube arrays, *The 5th International Symposium towards the Future of Advanced Researches in Shizuoka University 2019* (Shizuoka, Japonia, 6 March 2019).