

Titlu proiect: SNON – SUN LIGHT OXI-NITRIDES FOR ENERGETIC APPLICATIONS (NITRURI OXIDICE PENTRU APLICATII IN ENERGIE SOLARA)

Categoria de proiect: PN-II-ID-JRP-RO-FR-2012-0161, Proiecte comune de cercetare Romania-Franta

Contractul de finanțare: 18/RO-FR/06.01.2014

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Lista rezultate realizate din partea Universitatii "Alexandru Ioan Cuza" din Iasi

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINTA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE ISI SI ALTE BAZE DE DATE				
1.	V. Tiron, L. Sirghi	Tuning the band gap nitrogen content of TiO_xN_y thin films	101016/j.surfcoat2015.10.017, Surface & coating technology, 282, 103-106	2015
2.	L. Sirghi, Y. Hatanaka, K. Sakaguchi	Photocatalytic property of titanium dioxide thin films deposited by radio frequency magnetron sputtering in argon and water vapour plasma	10.1016/J.apsusc.2015.04.157, Applied Surface Science, 352, 38-41	2015
3.	V. Tiron, I-L. Velicu, A. Demeter, M. Dobromir, F. Samoila, C. Ursu, L. Sirghi	Reactive multi-pulse HiPIMS deposition of oxygen-deficient TiO_x thin films	Evaluare, Thin Solid Films	2015
4.	L. Sirghi	Plasma synthesis of photocatalytic TiO_x thin films	Evaluare, Plasma Sources, Science and Tchnology	2015
5.	A. Demeter, F. Samoila, V. Tiron, D. Stanescu, H. Magnan, M. Straticiu, I. Burducea, L. Sirghi	Visible-light photocatalytic activity of TiO_xN_y thin films obtained by reactive multi-pulse High Power Impulse Magnetron Sputtering	Surface & Coating Technology	2016
6.	V. Tiron, I-L. Velicu, D. Stanescu, H. Mangan, L. Sirghi	High visible light photocatalytic activity of nitrogen-doped ZnO thin films deposited by HiPIMS	Surface & Coating Technology	2016
7.	V. Tiron, I-L. Velicu, A. Demeter, M. Dobromir, F. Samoila, C. Ursu, L. Sirghi	Reactive multi-pulse HiPIMS deposition of oxygen-deficient TiO_x thin films	Thin Solid Films, 603:225	2016
8.	L. Sirghi	Plasma synthesis of photocatalytic TiO_x thin films	Science and Tchnology, 25:3303	2016
9.	M. Rudolph, A. Demeter, E. Foy, V. Tiron, L. Sirghi, T. Minea, B. Bouchet-Fabre, M-C. Hugon	Improving the crystallinity of Ta_3N_5 thin films by guided-ion DC magnetron sputtering	Applied Surface Science	2016
10.	A. Demeter, A. Besleaga, V. Tiron, L. Sirghi	Fabrication of 2D TiO_2 nanopatterns by Plasma Colloidal Lithography	Proceedings of the 15th International Conference on Global Research and Education, Advanced in Intelligent Systems and Computing, 519:117	2016
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COMUNICARI STIINTIFICE NATIONALE				
1.	A. Demeter, V. Tiron, L. Sirghi		The 6 th National Conference of Applied Physics CNFA, Iasi	26-27 nov. 2016
2.		Measuring the ionized flux fraction from high power impulse magnetron discharges using a miniaturized passive ion energy spectrometer	32nd international conference on phenomena in ionized gases, Iasi	26-31 iulie 2015
3.		Monte Carlo simulation of surface etching with colloidal mask	32nd international conference on phenomena in ionized gases, Iasi	26-31 iulie 2015
4.		Plasma synthesis of photocatalytic materials	32nd international conference on phenomena in ionized gases, Iasi	26-31 iulie 2015
COMUNICARI STIINTIFICE INTERNATIONALE				
1.	V. Tiron, O. Vasilovici, M. Dobromir, C. Costin, L. Sirghi	Control of nitrogen content of ZnO thin films obtained by HiPIMS	5th International Symposium on Transparent Conductive Materials, Piatonias, Greece	2014
2.	V. Tiron, O. Vasilovici, M. Dobromir, V. Nica, E.L. Ursu, C. Costin, L. Sirghi	Tuning band gap and nitrogen content of ZnOxNy thin films obtained by reactive HiPIMS	Surface coating and Technology Journal	2014
3.		Photo-catalytic activity for water molecule splitting of ZnOxNy thin films obtained by reactive high power impulse magnetron sputtering	European Materials Research Society E-MRS, Lille, Franta	11-15 mai 2015
4.		TiO ₂ thin film deposition by reactive multi-pulse HiPIMS	6 th international conference on HiPIMS, Braunschweig, Germania	9-12 iunie 2015
5.		AFM study of surface forces involved in self-assembling colloidal masks	14th international conference on Global Research and Education, Interacademia 2015, Hamamatsu, Japan	28-30 sept. 2015
6.		Direct growth of Nb-doped TiO ₂ thin films by RF magnetron sputtering on (100)Si and glass substrates	14th international conference on Global Research and Education, Interacademia 2015, Hamamatsu, Japan	28-30 sept. 2015
7.		TiO ₂ nano-patterns obtained by reactive high power magnetron sputtering and colloidal lithography	4th Magnetron Ion Processing and Arc Technologies European Conference, Paris	7-14 dec 2015
8.		Wettability of TiO ₂ nano-patterns obtained by reactive high power magnetron sputtering deposition	4th Magnetron Ion Processing and Arc Technologies European Conference, Paris	7-14 dec 2015
9.		Time-resolved mass spectrometric study of a reactive Ar/N ₂ /O ₂ HiPIMS discharge with a cathode	4th Magnetron Ion Processing and Arc Technologies European Conference, Paris	7-14 dec 2015
10.	L. Sirghi, V. Tiron	Control of nitrogen content in high power impulse sputtering deposition of oxynitride thin films	European Materials Research Society, Lille, Franta	2-6 mai 2016
11.	A. Demeter, F. Samoila, I. Mihaila, V. Tiron, D. Stanescu, H. Magnan, L. Sirghi	Photocatalytic activity of ZnON thin films deposited by HiPIMS on substrates with controlled roughness	European Materials Research Society, Lille, Franta	2-6 mai 2016
12.	F. Samoila, V. Tiron, A.	Visible-light photocatalytic activity	European Materials	2-6 mai 2016

	Demeter, D. Stanescu, H. Magnan, L. Sirghi	of TiOxNy thin films obtained by reactive multi-pulse High Power Impulse Magnetron Sputtering	Research Society, Lille, Franta	
13.	A. Demeter, A. Besleaga, V. Tiron, L. Sirghi	Fabrication of 2D TiO ₂ nanopatterns by Plasma Colloidal Lithography	The International Conference on Global Research and Education INTER-ACADEMIA, Varsovia, Polonia	2016
ATLASE, DICTIONARE DE SPECIALITATE				
I				
B				
CERERI BREVET DE INVENTII/BREVET OBTINUT				
ALTE rezultate				
I				
B				

Coordonator proiect din partea Universitatii "Alexandru Ioan Cuza" din Iasi,

Prof.univ.dr. SIRGHI Lucel

