

Titlu proiect: *Photocatalytic active nanostructured coatings on fabric substrates for applications in air purification systems*

Categoria de proiect: *CD-TE*

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Manager proiect: *Dr. Mirela Petruta Suche*

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE ISI				
1	Prepelita I.R., Narcisa Vrinceanu, Chirita R., Dobrin R.P., Alexinschi O.E., Brinza F., Hagi B.A., Suche P.M.	New approach on the role of a polymer matrix in the strong texturation of ZnO nanopowder	Revue Roumaine de Chimie, 58(11-12), 871-878, Dec 2013	2013
2	Gianina Broasca, Mirela Petruta Suche, Mihai Ciocoiu, Daniela Farima, Narcisa Vrinceanu, Christine Campagne, Cristina Rimbu, Mirela Iorgoaea	Novel Approach Regarding Zeta Potential Variation As A Consequence Of a Woven Fabrics Antibacterial Finishing Treatment	Tekstil ve Konfeksiyon"(Journ al of Textile and Apparel) 23(1), 2013	2013
3	Gianina Broasca, Mirela Petruta Suche, Cristina Rimbu, Narcisa Vrinceanu et al.	Zinc oxide application in textile industry: surface tailoring and water barrier attributes as parameters with direct implication in comfort performance	Textile Research Journal.	2014
4	Mirela Suche, Ioan Valentin Tudose, Stefan Ionita, Ion Sandu, Felicia Iacomi, Emmanuel Koudoumas	ZnO nanostructures for potential applications in organic solar cells	Revista de Chimie Vol 66 nr 12/2015	2015
5	P. Postolache P.,	Research Regarding a	Chemical Engineering	2015

	V. Petrescu, D.D. Dumitrascu, C. Rimbu, N. Vrinceanu, C. R. Cipaian:	Correlation Core-Shell Morphology-Thermal Stability of Silica-Silver Nanoparticles”	Communications	
6	Humelnicu, D., Ignat, M., Suchea, M.	Evaluation of adsorption capacity of montmorillonite and aluminium-pillared clay for Pb ²⁺ , Cu ²⁺ and Zn ²⁺	Acta Chimica Slovenica, 62 (4), pp. 947-957.	2015
7	Suchea, M., Vamvakaki, M., Louloudakis, D., Sigalas, M., Katsarakis, N., Vernardou, D., Koudoumas, E.	Influence of thickness on the properties of TiO ₂ and Ti(Nb)O ₂ thin films	Studia Universitatis Babes-Bolyai Chemia, 61 (1), pp. 97-106.	2016
8	Louloudakis, D., Vernardou, D., Spanakis, E., Suchea, M., Kenanakis, G., Pemble, M., Savvakis, K., Katsarakis, N., Koudoumas, E., Kiriakidis, G.	Atmospheric pressure chemical vapor deposition of amorphous tungsten doped vanadium dioxide for smart window applications	Advanced Materials Letters, 7 (3)	2016
ARTICOLE ALTE BAZE DE DATE				
1	M. Suchea, I.V. Tudose, N. Vrinceanu, B. Istrate, C. Munteanu, E. Koudoumas	Precursor concentration effect on structure and morphology of ZnO for coatings on fabric substrates	Acta Chimica Iasi	2013
2	I V. Tudose and M. Suchea	ZnO for photocatalytic air purification applications	IOP Publishing, IOP Conf. Series: Materials Science and Engineering, 133, (2016) 012040	2016
CARTI				
1	Eveline Popovici, Narcisa Vrinceanu, Mirela Suchea	The nanostructured materials contribution in the enhancement of the performance attributes of the textile materials	Book chapter in Handbook “Comprehensive guide for mesoporous materials” Nova Science Publishers, Ltd. (New York – USA).	2015
2	Narcisa Vrinceanu, Danu Dumitru Dumitraşcu, Eveline Popovici, Mirela Petruta Suchea, s.a.	Chapter 1 Experimental Procedures in “Novel Approach of Added-Value Zinc Oxide Powders for Polymeric Fibrous Matrices with Engineered Architectures for High Performance Textiles”	Nova Science Publishers, Ltd. (New York – U Publication date: Date: 2015 - 3rd Quarter, ISBN : 978-1-63483-432-2; pp. 1-22.SA).	2015
3	Narcisa Vrinceanu, Valentin Petrescu,	Chapter 2 Results and Discussion – Analyses and Discoveries Novel Approach of Added-Value	Nova Science Publishers, Ltd. (New York – USA). Publication date: Date: 2015 - 3rd Quarter, ISBN :	2015

	Toderița Nemeș, Eveline Popovici, Mirela Petruța Suchea, s.a.	Zinc Oxide Powders for Polymeric Fibrous Matrices with Engineered Architectures for High Performance Textiles	978-1-63483-432-2, pp. 23- 82	
DOCUMENTATIE TEHNICA, BREVETE				
1	I.V.Tudose, M.P. Suchea	Dispozitiv fotocatalitic pentru depoluarea aerului in spații interioare	Cerere de brevet depusă spre aprobarea BECA a UAIC cu nr. 16766/ 28.09.2016 împreună cu "Cererea de brevet de inventie" și toate documentele aferente pentru OSIM (nr 16767/28.09.2016 la registratura UAIC.	2016
COMUNICARI STIINTIFICE NATIONALE				
1	M. Suchea, I.V. Tudose, N. Vrinceanu, B. Istrate, C. Munteanu, E. Koudoumas	Precursor concentration effect on structure and morphology of ZnO for coatings on fabric substrate	Alexandru Ioan Cuza" University Days Faculty of Chemistry Conference & Mini Hot Conference Recent Achievements in Organic and Supramolecular Chemistry" Iasi, Romania	2013
2	I.V. Tudose, N. Vrinceanu, B. Istrate, C. Munteanu, E. Koudoumas, M. Suchea, F. Iacomi	Substrate effect on structure and morphology of ZnO coatings on fabric substrates	TIM-13 Physics Conference West University of Timisoara	2013
3	M. Suchea, I.V. Tudose, N. Vrinceanu	"SEM characterization of photocatalytic ZnO for air purification applications"	"Alexandru Ioan Cuza" University Days Faculty of Chemistry Conference	2014
4	M. Suchea, I. V. Tudose, F. Iacomi, E. Koudoumas	Pure and doped TiO ₂ thin films for environmental and energy applications	"Alexandru Ioan Cuza" University Days Faculty of Chemistry Conference 29- 30 October 2015, Iasi, Romania.	2015
COMUNICARI STIINTIFICE INTERNATIONALE				
1	M. Suchea, I.V.Tudose, N. Vinceanu, E. Koudoumas	"Comprehensive overview of recent biomedical applications of nano- structured zinc oxide"	International Seminar on Biomaterials & Regenerative Medicine BioReMed'2013 and National Symposium on Biomaterials IX-th edition Iasi	2013
2	N. Vrinceanu , M. Suchea, I.V. Tudose , F. Iacomi, E. Koudoumas	"Metal Oxide Active Nanostructured Coatings On Fabric Substrates",	The 13th International Balkan Workshop on Applied Physics and Materials Science, Constanta, Romania	2013
3	M. Suchea	,Photocatalytic Materials for Constructions Applications"	Conference Innovative Manufacturing Engineering (D Symposium: Advanced	2014

			Materials and Construction Technologies), May 29-30 2014, Chişinău, Moldova Republic.	
4	M. Suchea, I.V. Tudose, N. Vrinceanu	“Photocatalytic ZnO for air purification applications”	Materials for Energy and Environment topic of 10th International Conference on Physics of Advanced Materials ICPAM-10, Alexandru Ioan Cuza University of Iasi, Romania, September 22 - 28 2014	2014
5	Mirela Suchea	ZnO as photocatalytic material for constructions applications	Invited presentation in Photocatalytic and Superhydrophilic Surfaces Workshop, PSS2015 September 10-11 th , University of Minho, Guimares, Portugal	2015
6	M. Suchea	Material functionality tailored by nano-structuring: Case study ZnO	Nanoscience in Chemistry, Physics, Biology and Mathematics” NANOMATHCHEM2015, November 12-14 2015, Cluj-Napoca, ROMANIA	2015
7	M. Suchea, I. V. Tudose, F. Iacomi and E. Koudoumas	Nanostructured metal oxides for energy and environmental applications	International Conference "Science in Technology" (SCinTE 2015), Athens on 5-7 November 2015	2015
8	M. Suchea, I.V. Tudose, F. Iacomi and E. Koudoumas	Nanostructured metal oxides for potential applications in organic solar cells	NANOPOSTER 2015 - 5th Virtual Nanotechnology Conference 13-19 Aprilie 2015	2015
9	I V. Tudose, N. Vrinceanu, M. Suchea	Photocatalytic ZnO on textile substrates for air purification applications	The 1st International Workshop “Advances on Photocatalysis AdvPhotoCat2015, Iasi, Romania, 6–8 th of July, 2015	2015
10	Narcisa Vrinceanu, Ioan Valentin Tudose, Mirela Petruta Suchea	Photocatalytic performance of TiO ₂ on inorganic polymeric matrices”	The 1st International Workshop “Advances on Photocatalysis AdvPhotoCat2015, Iasi, Romania, 6–8 th of July, 2015	2015
11	M. Suchea, I V. Tudose, F. Iacomi, E. Koudoumas	Thickness influence on physical properties of TiO ₂ and Ti(Nb)O ₂ thin films	The 1st International Workshop “Advances on Photocatalysis AdvPhotoCat2015, Iasi, Romania, 6–8 th of July, 2015	2015
12	Paraschiva Postolache, Danut Dumitru Dumitrascu, Diana Coman,	Waste-water management by a comparative research of photocatalytic performance belonging to coupled ZnO/SnO ₂	The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa	2015

	Narcisa Vrinceanu	nanocomposites against degradation of textile dyes	University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015	
13	Bogdan Alexandru Hagi, Narcisa Vrinceanu, Paraschiva Postolache	he Hypothesis Regarding the Regenerative Action of Silver Nanoparticles”, The 5th IEEE International Conference on E-Health and Bioengineering	The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015	2015
14	Mirela Suche, Ioan Valentin Tudose, Felicia Iacomi, Emmanouel Koudoumas	Metal oxide based smart materials	2nd CommScie International Conference “Challenges for Sciences and Society in Digital Era” Iași, December 4th–5th, 2015	2015
15	M. Suche and I V Tudose	ZnO based materials for indoor air purification system	11th International Conference on Physics of Advanced Materials ICPAM-10, Babes-Bolyai University of Cluj-Napoca, Romania, from 8th to 14th of September, 201	2016
16	I V. Tudose and M. Suche	ZnO for photocatalytic air purification applications	International Conference on Innovative Research 2016 - ICIR Euroinvent 2016, Iasi, Romania	2016
17	M. Suche, I.V. Tudose, T. Nikias, L. Papoutsakis, S. Ibanescu, E. Koudoumas	High quality ATO thin films for transparent electrode applications	11th International Conference on Physics of Advanced Materials ICPAM-10, Babes-Bolyai University of Cluj-Napoca, Romania	2016
	ATLASE, DICTIONARE DE SPECIALITATE			
	ALTE PUBLICATII			
1	M P Suche, I V Tudose si altii	Website-ul workshopului The 1st International Workshop “Advances on Photocatalysis AdvPhotoCat2015 http://www.photocatalysis-workshop.com/ intemeiat in cadrul proiectului	http://www.photocatalysis-workshop.com/	2015

Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții* : (numai mijloace fixe)	Valoarea (lei)	Locație
Nisa chimica cu Exhaustare tip HCH 1200	1 Echipamente și aparatură de cercetare	17367,6	Facultatea de Chimie
Balanta analitica model AS/220/C/2 capac max 220 g, precizie 0,1 mg	1 Echipamente și aparatură de cercetare	4073,4	Facultatea de Chimie
171-454 Agitator magnetic cu încălzire; suprafata ceramica HSC 2 buc	1 Echipamente și aparatură de cercetare	5356,8	Facultatea de Chimie

Categorie de achiziții* :

1. Echipamente și aparatură de cercetare
2. Rețele de comunicații specializate
3. Baze de date și informații de specialitate
4. Echipamente și mijloace moderne de documentare și comunicare
5. Alte categorii

Director proiect,
Dr. Mirela Pezrău Săchea

M. Săchea