

Anexa 2a

Titlu proiect: Nouă generație de sisteme de autocurățare fotocatalitice pentru funcționalizarea textilelor tehnice și acoperiri arhitecturale (acronim: CLEANPHOTOCOAT)

Categoria de proiect: CNDI-UEFISCDI, PN-II-PT-PCCA-2013-4

Contractul de finanțare: 94 / 2014

Durata: 2014-2017

Manager proiect: dr. Mihai Anastasescu (responsabil ICF – Partener 1)

Lista rezultate

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				
1	I. Stanciu, L. Predoana, C. Anastasescu, D.C. Culita, S. Preda, J. Pandele Cusu, C. Munteanu, A. Rusu, I. Balint, M. Zaharescu	Structure and properties of vanadium doped TiO ₂ powders prepared by sol-gel method	Rev. Roum. Chim., 59(11-12), (2014) 921-931	2014
2	A. Raditoiu, V. Amariutei, V. Raditoiu, M. Ghiurea, A.N. Frone, R.A. Gabor, L.E. Wagner, M. Anastasescu	Polyester fibers coated with silica hybrid film forming materials containing non-ionic dyes	J. Optoelectron. Adv. Mater. 17(1-2), (2015) 198 - 204	2015
3	I. Stanciu, L. Predoana, J. Pandele-Cusu, S. Preda, M. Anastasescu, K. Vojisljević, B. Malić, M. Zaharescu	Thermal behaviour of the TiO ₂ based gels obtained by microwaves assisted sol-gel method	J. Therm. Anal. Calorim. 130(2) (2017) 639-651	2017
4	V. Raditoiu, A. Raditoiu*, M. F. Raduly, V. Amariutei, I. C. Gifu, M. Anastasescu,	Photocatalytic behavior of water-based styrene-acrylic coatings containing TiO ₂ sensitized with metal-phthalocyanine tetracarboxylic acids	Coatings 7 (2017) 229_17pp	2017
5	E. Craciun, L. Predoana, I. Atkinson, I. Jitaru, E.-M. Anghel, V. Bratan, C. Gifu, C. Anastasescu, A. Rusu, V. Raditoiu, E. Vasile, M. Anastasescu, I. Balint, M. Zaharescu	Fe-doped TiO ₂ nanopowders for photocatalytic mineralization of oxalic acid under solar light irradiation	J. Photochem. Photobiol. A: Chem 356 (2018) 18-28	2018
6	S. Mihaiu, O. Mocioiu, L. Predoana, I. Atkinson*, S. Preda, C. Vladut, E. Tenea, M. Stoica, C. Anastasescu, J.M. Calderon-Moreno, M. Anastasescu*, M. Gartner, I. Balint	Pristine and Au-modified ZnO nano-powders prepared by sol-gel method: synthesis, structural properties and Rhodamine B photocatalytic degradation	Rev. Roum. Chim. (trimisa in 08.2017)- under review	
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ARTICOLE ALTE BAZE DE DATE				
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CARTI				
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COMUNICARI STIINTIFICE NATIONALE				
1	L. Predoana, I. Stanciu, J. Pandele, S. Preda, C. Anastasescu, M. Zaharescu	Stabilitatea termica a nanopulberilor oxidice pe baza de TiO ₂ obtinute prin metoda sol-gel în camp de microunde	Al XII-lea Simpozion national de Pulberi ceramice, 20 nov 2015, Bucuresti, Romania	2015
2	L. Predoana, I. Stanciu, J. Pandele, S. Preda, C. Anastasescu, B. Malic, M. Zaharescu	Thermal stability of the V-doped TiO ₂ microwaves assisted sol-gel methods	The 25th Symposium on Thermal Analysis and Calorimetry – Eugen Segal, Bucharest, 15th of April 2016 (Prezentare ORALA)	2016
3	M. Zaharescu	Influence of the microwaves on the TiO ₂ based sol-gel processes and on the properties of the resulted nanostructures	The 9-th Edition of Symposium with international participation - New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, June, 9-10, 2016, Timisoara (Prezentare ORALA)	2016
COMUNICARI STIINTIFICE INTERNATIONALE				
1	L. Predoana, I. Stanciu, J. Pandele, S. Preda, C. Anastasescu, B. Malic, M. Zaharescu	Thermal stability of the V-doped TiO ₂ gels obtained by microwave assisted sol-gel method	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 25-28 August 2015, Ljubljana, Slovenia	2015
2	M. Zaharescu, I. Stanciu, L. Predoana, C. Anastasescu, D.C. Culita, S. Preda, J. Pandele Cusu, C. Munteanu, A. Rusu, I. Balint	V-doped TiO ₂ sol-gel nanopowders with catalytic properties - (poster)	XVIII International Sol-Gel Conference (Sol-Gel 2015) Kyoto, Japonia 6 - 12 septembrie 2015	2015
3	M. Anastasescu, I. Stanciu, L. Predoana, C. Anastasescu, D.C. Culita, S. Preda, J. Pandele Cusu, C. Munteanu, A. Rusu, I. Balint, M. Zaharescu	Multifunctional V-doped TiO ₂ materials for organic compounds degradation	7th International Workshop "Advanced optical and X-ray characterization techniques of multifunctional materials for information and communication technologies, health and renewable energy applications", September 16-18, 2015, Bucharest, Romania	2015
4	L. Predoana, I. Stanciu, J. Pandele, S. Preda, A. Rusu, C. Anastasescu, M. Patrascu, M. Zaharescu	V-doped TiO ₂ nanopowders obtained by microwave assisted sol-gel method	3rd Global Congres on Microwave Energy Aplications, 3G CMEA, 25-29 July 2016 Cartagena, Spain (POSTER)	2016
5	L. Predoana, I. Stanciu, M. Anastasescu, J.M. Calderon Moreno, M. Stoica, S. Preda, M. Gartner, M. Zaharescu	Influence of the microwaves on the TiO ₂ based sol-gel processes and on the properties of the resulted nanostructures	16th International Conference of Physical Chemistry - ROMPHYSICHEM16, 21 - 24 September, 2016, Galati, Romania (POSTER)	2016
6	M. Stoica, S. Mihaiu, O. Mocioiu, M. Anastasescu, J.M. Calderon-Moreno, L. Predoana, I. Atkinson, S. Preda, C. Anastasescu, I. Balint, M. Zaharescu	Synthesis, structural properties and photocatalytic behavior of ZnO powders prepared by sol-gel method	16th International Conference of Physical Chemistry - ROMPHYSICHEM16, 21 - 24 September, 2016, Galati, Romania (POSTER)	2016
7	M. Anastasescu, L.	Doped TiO ₂ gels and	16th International Conference of	2016

	Predoană, E. Craciun, J. Pandele Cușu, I. Atkinson, A. Rusu, S. Preda, E.-M. Anghel, A. Ioancea, C. Anastasescu, M. Stoica, V. Bratan, I. Balint, M. Zaharescu	powders: preparation, physico-chemical properties and solar-light photocatalytic activity	Physical Chemistry - ROMPHYSICHEM16, 21 - 24 September, 2016, Galati, Romania (POSTER)	
ATLASE, DICTIONARE DE SPECIALITATE				
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CERERI BREVET DE INVENTII/BREVET OBTINUT				
ALTE rezultate				
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Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții*: (numai mijloace fixe)	Valoarea (lei)	Locație
Circulator cu racire Julabo model F250/EcoChiller	Achizitie directa/2016	9999.60	Anastasescu Crina Cam. 123
Vas 0.5 litri din teflon pentru autoclava	Achizitie directa/2017	985	Mihaiu Susana

Responsabil proiect,

dr. Mihai Anastasescu (responsabil ICF – Partener 1)