

## Anexa 2a

**Titlu proiect: Oxidarea catalitică și fotocatalitică din ape a poluanților cu efecte estrogeno-mimetice**

**Categoria de proiect: PCE**

**Contractul de finanțare: nr. 92/21.10.2013**

**Manager proiect: CSI dr. Mariana Neamtu**

### 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
<b>ARTICOLE ISI</b>				
1.	Neamțu M., Macaev F., Boldescu V., Hodoroaba V.-D., Nadejde C., Schneider R. J., Paul A., Ababei G., Panne U.	Removal of pollutants by the new Fenton-like highly active catalysts containing an imidazolium salt and a Schiff base	<i>Applied Catalysis B: Environmental</i> , 183, 335–342	<b>2016</b>
2.	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U.	Hybrid iron-based core-shell magnetic catalysts for fast degradation of bisphenol A in aqueous systems	<i>Chemical Engineering Journal</i> , 302, 587–594	<b>2016</b>
3.	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U.	Green Fenton-like magnetic nanocatalysts: synthesis, characterization and catalytic application	<i>Applied Catalysis B: Environmental</i> , 176, 667–677	<b>2015</b>
4.	Nădejde C., Neamțu M., Creangă D.	Environment-friendly magnetic fluids for wastewater remediation – synthesis and characterization	<i>Acta Physica Polonica A</i> , 127 (2), 647–649	<b>2015</b>
5.	Nadejde C., Neamtu M., Schneider R.J., Hodoroaba V.-D., Ababei G., Panne U.	Catalytical degradation of relevant pollutants from waters using magnetic nanocatalysts	<i>Applied Surface Science</i> , 352, 42–48	<b>2015</b>
6.	Neamțu M., Grandjean D., Sienkiewicz A., Le Faucheur S., Slaveykova V., Velez Colmenares J., Pulgarín C., De Alencastro F. L.	Degradation pathways of eight relevant micropollutants in different water matrices under exposure to UV <sub>254</sub> , simulated solar light irradiation and neutral photo-Fenton process – a comparative study	<i>Applied Catalysis B: Environmental</i> , 158-159, 30-37	<b>2014</b>

7.	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U.	Characterization and application of green Fenton-like catalysts for the removal of water pollutants.	<i>PTIM 2015 – Proceedings of 1<sup>st</sup> International Caparica Conference on Pollutant Toxic Ions and Molecules</i> , November 2–4, 2015, Caparica, Portugal, p.186-187, ISBN: 978-989-99361-6-4.	<b>2014</b>
8.	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U.	Green Fenton-like catalysts for the removal of water pollutants,	TechConnect World Innovation Conference <i>Nanotech 2015</i> , June 14-17, 2015, Washington, DC, Maryland, USA. Vol. 2 <i>Materials for Energy, Efficiency and Sustainability</i> , p.87–90, CRC Press, Taylor&Francis Group, ISBN 978-1-4987-4733-2.	<b>2015</b>
<b>COMUNICARI STIINTIFICE INTERNAZIONALE</b>				
9.	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U.	Superparamagnetic Fe <sub>3</sub> O <sub>4</sub> /CS and Fe <sub>3</sub> O <sub>4</sub> /PEG nanoparticles immobilized with ferrous oxalate as heterogeneous Fenton catalysts	6 <sup>th</sup> EuCheMS Chemistry Congress, September 11-15, 2016, Seville, Spain	<b>2016</b>
10	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U.	Photocatalytic wet oxidation of bisphenol A over magnetic nanophotocatalysts functionalized with ferric citrate	11 <sup>th</sup> International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), September 6-9, 2016, Aveiro, Portugal	<b>2016</b>
11	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U.	Preparation, characterization and application of Fe <sub>3</sub> O <sub>4</sub> /PEG nanoparticles functionalized with ferrous oxalate or ferric citrate for removal of Bisphenol A Highly active magnetic catalysts for efficient degradation of Bisphenol A from aqueous media	Designing New Heterogeneous Catalysts Faraday Discussion, April 4-6, 2016, London, UK.	<b>2016</b>
12	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U.	Characterization and application of Green Fenton-like catalysts for the removal of water pollutants. Magnetite-	1 <sup>st</sup> International Caparica Conference on Pollutant Toxic Ions and Molecules – <i>PTIM 2015</i> , November 2-4,	<b>2015</b>

		chitosan functionalized with iron oxalate and iron citrate nanoparticles for removal of Bisphenol A	2015, Caparica, Portugal	
13	Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U.	Green Fenton-like catalysts for the removal of water pollutants	TechConnect World Innovation Conference <i>Nanotech 2015</i> , June 14–17, 2015, Washington, DC, Maryland, USA	<b>2015</b>
14	Neamtu M., Panne U.	Transformation des Herbizids Metamitron in Modellsystemen: Identifizierung von Produkten und Bestimmung von Abbauraten	<i>ANAKON 2015</i> , March 23–26, 2015, Graz, Austria	<b>2015</b>
15	Neamtu M., Nadejde C., Schneider R. J., Panne U.	Iron oxalate core-shell magnetite nanoparticles catalyst as heterogeneous Fenton-like catalyst for removal of dyes from water	AFF2 Adlershofer Forschungsforum, 11 November 2014, Berlin, Germany	<b>2014</b>
16	Nadejde C., Neamtu M., Macaev F., Boldescu V., Hodoroaba V.-D., Schneider R. J., Paul A., Ababei G., Panne U.	New Fe-based highly active catalysts containing an imidazolium salt and a Schiff base for the removal of pollutants	International Conference on Physics of Advanced Materials (ICPAM-10), September 22 – 28, 2014, Iași, Romania	<b>2014</b>
17	Nadejde C., Neamtu M.	Catalytical removal of relevant pollutants from waters using nanocatalysts	1 <sup>st</sup> Autumn School on Physics of Advanced Materials (PAMS-1), September 22 – 28, 2014, Iași, Romania	<b>2014</b>
18	Nadejde C., Neamtu M., Creanga D.	Environment-friendly magnetic fluids for wastewater remediation – synthesis and characterization	The European Conference PHYSICS OF MAGNETISM 2014 (PM'14), June 23-27, 2014, Poznań, Poland	<b>2014</b>
19	Nadejde C., Neamtu M.	Characterization of water-based ferrofluids synthesized by co-precipitation route	1 <sup>st</sup> Poznań School of Physics of NanoMagnetism - POSNAMAG 2014 NanoBioMedical Center, June 20-29, 2014, Adam Mickiewicz University, Poznań, Poland	<b>2014</b>
20	Neamtu M., Grandjean	COMPARATIVE	The 38 <sup>th</sup> International	<b>2014</b>

D., Sienkiewicz A., Le Faucheur S., Slaveykova V., Velez Colmenares J., Pulgarin C., De Alencastro F. L.	BEHAVIOR OF RELEVANT MICROPOLLUTANTS IN DIFFERENT WATER MATRICES BY UV254 AND SIMULATED SOLAR LIGHT IRRADIATION AND NEUTRAL PHOTO-FENTON PROCESS	Symposium on Environmental Analytical Chemistry – ISEAC38, June 17-20, 2014, Lausanne, Switzerland
--	--	--

#### Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții* (numai mijloace fixe)	Valoarea (lei)	Locație
Cromatograf de lichide cu DAD		225637.84	Lab B122
Microplate reader Multiscan		62843.20	Lab B122
Sistem de apa ultrapura LABOSTRA PRO-TV		20394.90	Lab B122
Camera izolatoare (sound proof box) tip LS8 pentru sistem de omogenizare ultrasonica Bandelin Sonopuls HD4100, cod 3653		6814	Lab B122
Centrifuga		13688.36	Lab B122
Sistem de omogenizare ultrasonica		13424.67	Lab B122
Agitator rotativ BIOSAN MULTI		3914.68	Lab B122

**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,**



**CSI dr. Mariana Neamtu**