

## **b. LISTA DE LUCRĂRI**

**Prof. univ. dr. Vișa Maria**

### **b.1. LISTA CU SELECȚIA A 10 LUCRĂRI INDEXATE ÎN ISI WEB of SCIENCES\* :**

1. **Vișa M.**, Andreea-Maria Chelaru, Hydrothermally Modified Fly Ash for Heavy Metals and Dyes Removal in Advanced Wastewater Treatment, *Journal Applied Surface Science*, vol. 303, (2014), 14-22, Factorul de impact **2,112**
2. **Vișa, M.**, Duță, A., TiO<sub>2</sub>/fly ash novel substrate for simultaneous removal of heavy metals and surfactants, *Chemical Engineering Journal*, vol. 223 (2013), 860-868., Factorul de impact **3,473**
3. **Vișa M.**, Duta A., Methyl-orange and cadmium simultaneous removal using fly ash and photo-Fenton systems, *Journal of Hazardous Materials*, vol. 244 (2013), 773-779, Factorul de impact **3,925**
4. **Vișa M.**, Tailoring fly ash activated with bentonite as adsorbent for complex wastewater treatment, *Journal Applied Surface Science*, vol. 263 (2012), 753-762, Factorul de impact **2,112**
5. **Vișa, M.**, Isac, L., Duță, A., Fly ash adsorbents for multi-cation wastewater treatment, *Journal Applied Surface Science*, vol. 258 (2012), 6345-6352, Factorul de impact **2,112**
6. **Vișa, M.**, Pricop, F., Duță, A., Sustainable Treatment of Wastewaters Resulted in the Textile Finishing Industry, *Journal Clean Technologies and Environmental Policy*, vol.13 (2011), 855-861, Factorul de impact **1,753**
7. **Vișa, M.**, Andronic, L., Lucaci, D., Duță, A., Concurrent Dyes Adsorption and Photo-degradation on Fly Ash Based Substrates, *Adsorption Journal of the international adsorption Society*, vol. 17 (2011), 101-108, Factorul de impact **2,000**
8. **Vișa M.**, Bogatu, C., Duta, A., Simultaneous Adsorption of Dyes and Heavy Metals from Multicomponent Solutions Using Fly Ash, *Journal Applied Surface Science*, 256 (2010) pag. 5486-5491, Factorul de impact **2,112**
9. **Vișa, M.**, Carcel, R. A., Andronic, L., Duta, A., Advanced treatment of wastewater with methyl orange and heavy metals on TiO<sub>2</sub>, fly ash and their mixtures, *Journal Catalysis Today*, vol.144 (2009) 137-142, Factor de impact **3,407**
10. **Vișa, M.**, Nacu Mihaela, Comparative heavy metals and dyes removal efficiency on fly ash and wood ash, *Environmental Engineering and Management Journal*, vol. 10 (9) (2011) 1407-1414 Factor de impact **1,004**

\* cele 10 lucrări sunt realizate după acordarea titlului de doctor în Știința și Ingineria Materialelor.

## **b.2. TEZA DE DOCTORAT**

Titlul: *Materiale Adsorbante cu Proprietăți Superficiale Controlate, Obținute din Deșeuri Solide, pentru Epurarea Avansată a Apelor;*  
Domeniul: Știința și Ingineria Materialelor;  
Anul susținerii: 2008;

## **b.3. PROPUNERE DE BREVET**

Instalație pentru determinarea simultană a parametrilor proceselor de fotodegradare și de adsorbție pe straturi subțiri, drd. Ing. Carcel Radu-Adrian, prof.dr. ing. DUȚĂ Anca, prof.dr. VIȘA Ion, conf.dr. chim., VIȘA Maria, și. dr. chim. ANDRONIC Luminița Camelia, In evaluare: A 01061 25.10.11

## **b.4. CĂRȚI ȘI CAPITOLE DE CĂRȚI**

1. **VIȘA Maria**, *Procese de Tratare a Apei- Îndrumar de Laborator*, Editura Universității Transilvania, Brașov, ISBN:978-606-19-0353-5, (2014).

2. **VIȘA Maria**, C. Drăghici, L. Dumitrescu, I. Nicolae, S. Pațachia, D. Perniu, *Tehnologiile și Protecția Mediului*, ISBN 978-606-5115-210-6, (2012).

3. Ion Vișa, Anca Duță, Sustainable Energy, Cap. 4.2. *(Waste)Water Treatment*, (**Vișa Maria**), Editura Universității Transilvania, Brașov, ISBN: 978 – 073 – 598 – 454 - 0 (2008).

4. **VIȘA Maria**, Vittorio Zanetti, Angela Pereira, Emine Eşturk, Miquel A. Sancho, *Clean Water An Invaluable Asset*, Editura Universității Transilvania, Brașov, ISBN: 978- 973-598-031-3, (2007).

5. **VIȘA Maria**, Vittorio Zanetti, Angela Pereira, Miquel A. Sancho, Emine Eşturk, *Glossary on Water Properties and Pollution*, Editura Universității Transilvania Brașov, ISBN:978-973-635-989-7 (2007).

6. Vassiliki Spiliotopoulou-Papantoniou, Aurelia Moraru, **VIȘA, Maria**, *Integration of Software Into Chemistry Courses (Learning and Teaching Chemistry in Secondary Schools in the Society of Information)*, Editura Universității Transilvania Brașov, ISBN: 973-635-047-9, (2002).

7. **VIȘA Maria**, Suport de curs, *Procese de Tratare a Apei* pentru studenții de la specializarea Ingineria și Protecția Mediului, 2013-2014, disponibil pe Platforma e-Learning, Universitatea Transilvania din Brașov

8. **VIȘA Maria**, Suport de curs, *Materiale Speciale – Materiale Reciclabile* pentru studenții de la specializarea Ingineria și Valorificarea Deșeurilor, 2013-2014, disponibil pe Platforma e-Learning: Cursurile mele, Universitatea Transilvania din Brașov

9. **VIȘA Maria**, Suport de curs, *Chimie Generală* pentru studenții de la specializarea Optometrie, Inginerie Medicală, Mecatronică, 2013-2014, disponibil pe Platforma e-Learning: Cursurile mele, Universitatea Transilvania din Brașov.

10. **VIȘA Maria**, Suport de curs, *Chimie Organică* pentru studenții facultății de Alimentație și Turism, 2013-2014, disponibil pe Platforma e-Learning: Cursurile mele, Universitatea Transilvania din Brașov.

**b.5. ARTICOLE IN EXTENSO PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL ( altele decât cele de la punctul 1.b.1.)**

1. **Vișa M.**, Duță Anca, Tungsten oxide and fly ash mixtures for single wastewater treatment process, *Journal of Optoelectronics and Advanced Materials*, vol. 12 (2010), 2, 406-410
2. **Vișa Maria**, Duță Anca, Adsorption Behavior of cadmium and copper compounds on a mixture fly ash:TiO<sub>2</sub>, *Revue Roumane de Chime*, vol. 55, (2010), 167-173.
3. Lucaci Dora, **Vișa Maria**, Duță Anca, Wood waste for Cu<sup>2+</sup> removal from wastewater a comparative study, Conference: International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES) Brasov, Romania 2010 *Environmental Engineering and Management Journal*, vol. 10 (2) (2011) 169-174.
4. Lucaci Dora, **Vișa Maria**, Duță Anca, Cooper removal on wood - fly ash substrates - thermodynamic study, *Revue Roumane de Chime*, vol. 56, (2011), 1067-1074
5. Coșniță Mihaela, Cazan Cristina, **Vișa Maria**, Duță Anca, Product development using composites from recycled wood plastics and rubber, 1st International Conference on Quality and Innovation in Engineering and Management (QIEM), Cluj Napoca, ROMANIA, 2011, *Quality and Innovation in Engineering and Management*, (2011), 253-256
6. Andronic L., Andrasi D., Enesca A., **Vișa Maria**, Duta A., The influence of titanium dioxide phase composition on dyes photocatalysis, *Journal of Sol-Gel Science and Technology*, vol. 58, (2011), 201-208.
7. **Vișa Maria**, Isac Luminița, Duță Anca, Fly ash – activated carbon powder composites for dyes and heavy metals removal, 2nd International Conference on Multi-Functional Materials and Structures, Qingdao, 2009, *Multi-Functionnal Materials and Structures II, PTS 1 and 2 book series: Advanced Materials Research*, vol.79-82, (2009), 243-246
8. **Vișa Maria**, Andronic Luminița, Duță Anca, Photocatalytic properties of titania - fly ash thin films, *Environmental Engineering and Management Journal*, vol. 8(4) (2009) 633-638
9. Andronic Luminița, Hristache Bianca, EnescaAlexandru, **Vișa Maria**, Duță Anca, Studies on titanium oxide catalyst doped with heavy metals (cadmium, copper and nickel), *Environmental Engineering and Management Journal*, vol. 8 (4) (2009) 747-751
10. **Vișa Maria**, Enesca Alexandru, Duță Anca, Simultaneous adsorption of Methyl Orange and heavy metals from solution using fly-ash, 2nd International Conference on Multi-Functional Materials and Structures, Qingdao, 2009, *Multi-Functionnal Materials and Structures II, PTS 1 and 2 book series:Advanced Materials Research*, vol.79-82, (2009), 247-250.
11. **Vișa Maria**, Duță Anca, Enhanced heavy metals adsorption on dye – modified fly ash, *Environmental Engineering and Management Journal*, vol. 8 (4) (2009) 803-808
12. Vladuță Cristina, Andronic Luminița, **Vișa Maria**, Duță Anca, Ceramic interface properties evaluation based on contact angle measurement, *Surface & Coatings Technology Journal*, vol. 202 (2008), 2448

13. **Vișa Maria**, Duță Anca, Advanced Cd<sup>2+</sup> removal on dispersed TiO<sub>2</sub> –fly ash, *Environmental Engineering and Management Journal*, vol. 7 (4) (2008), 373-378.

14. Duță Anca, **Vișa Maria**, Manolache Simona Anca, Nacu Marius, *Anatase (TiO<sub>2</sub>) thin layers for solar energy conversion*, Proceedings of the 11th International Conference On Optimization of Electrical and Electronic Equipment, vol. A (2008), 461-466

#### **b.6. PUBLICAȚII IN EXTENSO APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE**

1. **Vișa M.**, Nacu, M., Carcel R.A., *Fly ash substrates for complex wastewater treatment*, World of Coal Ash Conference (2011)-Denver, CO, USA . on –line, <http://www.flyash.info/>.

2. **Vișa, M.**, *Heavy metals removal on dye – modified fly ash substrates*, World of Coal Ash Conference, (2011)-Denver, CO, USA, on-line, <http://www.flyash.info/>.

3. **Vișa M.**, Enesca A., Duță A, *Simultaneous adsorption of Methyl Orange and heavy metals from solution using fly-ash*, 2nd International Conference on Multi-Functional Materials and Structures, Qingdao, 2009, *Multi-Functionnal Materials and Structures II, PTS 1 and 2 book series:Advanced Materials Research*, vol.79-82, (2009), 247-250., **prezentare orală**

4. **Vișa M.**, Isac L., Duță A., Fly ash – activated carbon powder composites for dyes and heavy metals removal, 2nd International Conference on Multi-Functional Materials and Structures, Qingdao, 2009, *Multi-Functionnal Materials and Structures II, PTS 1 and 2 book series: Advanced Materials Research*, vol.79-82, (2009), 243-246, **poster**

5. Duță, A., **Vișa, M.**, Manolache, S. A., Nanu, M., *Anatase (TiO<sub>2</sub>) Thin Layers For Solar Energy Conversion*, Poceedings of the 11th. International Conference on Optimization of Electrical and Electronic Equipment, vol. II, pag. 461-466 (2008).

6. Duță,A., Vișa, I., Jaliu, C., **Vișa, M.**, Perniu, D., *Promoting Renewable Energy Systems at High-School Level*, Eurosun, Conference Proceedings (CD Based), Lisabona, Portugalia, Octombrie (2008).

7. Vișa Ion, Perniu Dana, Jaliu Codruța, **Vișa Maria**, Duta Anca, *European Training In-Service Tool On Sustainable Energy*, European Conference on Photovoltaics, 23 EUPVSEC Proceedings (CD based), Valencia, Spania, Septembrie (2008).

8. **Vișa, M.**, Duță, A., *Fly Ash - A Waste Used For Reducing Environmental Pollution*, The 31<sup>st</sup> Annual Congress of the American Romanian Academy of Arts and Sciences, Pro-Active Partnership in Creativity for the Next Generation, Presses Internationales Polytechnique, ISBN: 978-2-553- 01412-3, pag. 698-701, (2007).

9. **Vișa, M.**, *Heavy metals removal on dye – modified fly ash substrates*, World of Coal Ash Conference, (2011)-Denver, CO, USA, on-line, <http://www.flyash.info/> **prezentare orală**.

10. **Vișa M.**, Enesca A., Duță A, *Simultaneous adsorption of Methyl Orange and heavy metals from solution using fly-ash*, 2nd International Conference on Multi-Functional Materials and Structures, Qingdao, 2009, *Multi-Functionnal Materials and Structures II, PTS 1 and 2 book series:Advanced Materials Research*, vol.79-82, (2009), 247-250., **prezentare orală**

11. **Vișa M.**, Isac L., Duță A., Fly ash – activated carbon powder composites for dyes and heavy metals removal, 2nd International Conference on Multi-Functional Materials and Structures, Qingdao, **2009**, *Multi-Functionnal Materials and Structures II, PTS 1 and 2 book series: Advanced Materials Research*, vol.79-82, **(2009)**, 243-246, **poster**

#### **b. 7. ARTICOLE ÎN ALTE JURNALE BDI ȘI REVISTE CNCSIS**

1. **Vișa M.**, Duță A., *Cadmium and Nickel Removal from Waste Water Using Modified Fly Ash: Thermodynamic and Kinetic Study*, Scientific Study & Research, vol. IX (1), pag. 73-82 **(2008)**, ISSN 1582- 540X

2. **Vișa M.**, Duță A., *Removal Cadmium and Cooper from Aqueous Solution by Adsorption onto Treated Fly As Collected from CET-Brașov*, Buletinul Universității Transilvania Brașov, pag. 293-298, ISSN (vol.)2065-2119, ISSN,(CD) 2065-2127, **2008**

3. I.Vișa,I., Perniu1, D., Alimisis, D., **Vișa, M.**, Cardon, L., Bakay, E., *Integrated Approach of Sustainable Energy Education and Research for Pre-University Curricula*, Buletinul Universității Transilvania Brașov, pag. 287-292, ISSN (vol.) 2065-2119, ISSN (CD) 2065-2127, **(2008)**

4. **Vișa M.**, Duță A., *Adsorption Mechanisms Of Heavy Metals On Fly Ash With Modified Surface Charge*, Aiche Anual meeting, Salt Lake City - Utah -USA, format CD, **(2007)**, indexat pe site - **Scopus**

5. **Vișa, M.**, Duță A., *Heavy Metals from Multicomponents Cation Solution Using Alkaline Activated Fly Ash*, Buletinul Universității Transilvania Brașov, vol. 14(49), Series A, pag. 205-210, ISSN 1223-9631, **(2007)**.

6. **Vișa, M.**, Duță, A., *Removal Pollutants From Aqueous Solutions Using Fly Ash*, Buletinul Universității Transilvania Brașov, vol. 13(48), Series A, pag. 173-180, ISSN 1223-9631, **(2006)**.

7. **Vișa M.**, Duță A., *A Comparative Study Of Cd<sup>2+</sup> Removal Using Different Types of Fly Ashes*, International Conference on Materials Science and Engineering Brașov, Romania, BRAMAT, Buletinul Universității Transilvania Brașov, format CD, **(2007)**

8. **Vișa, M.**, Duță, A., *Eco-Materials For Advanced Water Treatment*, Buletinul Universității Transilvania Brasov, vol. 12(47), Series A, pag. 313-318, ISSN 1223-9631, **(2005)**.

#### **b.8. LUCRĂRI PUBLICATE ÎN VOLUMELE MANIFESTĂRILOR ȘTIINȚIFICE NAȚIONALE**

1. **Vișa, M.**, *Developing Comenius Projects At High School Level A Way Of Educating on A Sustainable Development*, Prasic'06, Brașov vol. III, Desing de produs, ISBN (10) 973-635-826-7; pag. 263-266, **(2006)**.

2. Duță A., **Vișa M.**, Perniu D., *Education On Sustainable Development Extend School Level*, Prasic'06, vol. III, Desing de produs, ISBN (13) 978-973-635-826-5, pag. 293-298, **(2006)**.

## **b.9. ALTE LUCRĂRI SUSȚINUTE LA CONFERINȚE INTERNAȚIONALE**

1. **Vișa, M.** Duta, A., *New Composites Obtained by freundlich conditions for Advanced Wastewaters Process*, The Photocatalytic and Superhydrophilic Surfaces Workshop, PSS2013, **(2013)**, Manchester University, **poster**.

2. **Vișa, M.**, Bogatu, C., Duta, A., *Influence of pH and H<sub>2</sub>O<sub>2</sub> on Tungsten Oxide and Fly Ash Mixtures for Dyes Removal from Wastewater*, The Photocatalytic and Superhydrophilic Surfaces Workshop, PSS2013, **(2013)**, Manchester University, **poster**.

3. **Vișa M., Andronic L., Duță A.**, *Fly ash-TiO<sub>2</sub> nanocomposite material for multi-pollutants wastewater treatment*, 8th International Conference on Surfaces, Coatings and Nanostructured Materials, **(2013)** Granada Spania **prezentare orală**.

4. **Vișa M.**, *Sustainable Treatment of Industrial Wastewaters with Complex Composition using fly ash*", 2nd International Congress on Advanced Materials AM **(2013)**, Jiangsu University CHINA, secțiunea 6 Green Materials, **prezentare orală**.

5. **Vișa, M., Isac L.**, *Adsorption and Photocatalytic Degradation Mechanisms of Heavy Metals and Surfactants Using TiO<sub>2</sub>/Fly Ash with Modified Surface Change*, International Conference ROCAM (2012) Brașov, **poster**.

6. **Vișa Maria**, Duță Anca, *Modified Fly Ash Used for Simultaneous Removal of Dyes and Heavy Metals From Wastewater*, International Symposium on Structural Property Relationships in SolidState Material, Nantes, France, Book of Abstracts, pag. 103, **(2008)**, **poster**.

7. Andronic, L., Carcel, R.,A., **Vișa, M.**, Duță, A., *Photocatalytic Activity Of Doped (Cd, Cu, Ni)Titanium Oxide*, 5<sup>th</sup> European Conference on Solar Chemistry & Photocatalysis: Environmental Applications, Palermo, (Sicilia) Italia Book of Abstracts, PP.3.6., **poster**.

8. **Vișa, M.**, Duță ,A., *Optimized Adsorption Process of Heavy Metals Nano-Particles of Anatase And Fly Ash*, 2<sup>nd</sup> International Meeting on Developments in Materials, Processes & Applications of Nanotechnology, University of Cambridge-UK, Technical Programme, pag.8, poziția 108, **(2008)** – **prezentare orală**

9. **Vișa, M.**, Duță, A., *Advanced Wastewater Treatment for Heavy Metals Immobilisation Using Modified Fly Ash*, European Material Research Science Conference, EMRS Fall Meeting, Warsaw University of Technology, Book of abstracts, ISBN: 83-89585-16-2, secțiunea F, pag 168 **(2007)**.

10. **Vișa, M.**, Duță, A., Manolache Simona, *Tailoring Fly Ash As Adsorbent For Cadmium Removal Form Industrial Waste Water*, EnvEdu- Brașov Romania, Conference Book of Abstracts, PC8., **(2006)** **poster**.

11. **Vișa M.**, *Studies With the Students on the Quality of the Environment*, EnvEdu – Brașov Romania, Conference, **(2004)** **prezentare orală**.

06.06.2014

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