

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Elena Bobu**
Address(es) 15, Anastasie Panu, 700021, Iasi, Romania
Telephone(s) +40232276102; +40232278683 **Mobile:** +40723516567
Fax(es) +40232271311
E-mail elbo@ch.tuiasi.ro
Nationality Romanian
Date of birth 22.03.1947
Gender Female

Desired employment / Occupational field

University Professor and Researcher

Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>1998 onwards</p> <p>Professor</p> <ul style="list-style-type: none"> ○ Teaching courses for graduate and postgraduate students, including: Fundamentals of Papermaking, Chemical Processes in Papermaking, Paper and Board Recycling, Life Cycle Management of Polymer Materials. ○ Performing advanced research in: paper chemistry and technology, environmental aspects of papermaking, integrated valorization of cellulose fibre resources, paper and board recycling. ○ Supervising doctoral thesis and tutoring postdoctoral research stages in the field of Chemical Engineering, focusing on renewable fibre resources and biopolymers application in papermaking. ○ Coordinating national research projects (national research programs – ORIZONT 2000, CEEEX, PNCDI; research and design project with industrial partners of pulp and paper sector. ○ Leader representative for UTI partner in two European projects (FP6, FP7) and in the preparation of proposals for FP6 and FP7 programs; Coordinator of an ECOLINKS project (AID-USA) ○ Romanian representative and member of Core Group for COST Domain-FPS (Forest Products and their Services), active participation in several COST Actions.
<p>Name and address of employer</p> <p>Type of business or sector</p> <p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>“Gheorghe Asachi” Technical University of Iasi, 71 Dimitrie Mangeron, 700050, Iasi, RO</p> <p>High Education and Research</p> <p>1996 -1997</p> <p>Visiting Scientist</p> <p>The design and development of two research projects, including industry transfer, in the field of “Wet End Chemistry in Papermaking”</p>
<p>Name and address of employer</p> <p>Type of business or sector</p>	<p>Sonoco Corporate Technology, Hartsville, SC, USA, Department of Research and Development</p> <p>Industry - Packaging Solutions and Services</p>

Dates	1980 -1995
Occupation or position held	Associate Professor, Lecturer, Assistant Professor
Main activities and responsibilities	<ul style="list-style-type: none"> ○ Teaching courses (paper technology, equipments in paper industry) for graduate and undergraduate students, as well as short courses for continuous training of the engineers in paper industry. ○ Laboratory, design and research activities with the students in the field of pulp and paper technology, man-made fibre technology and physical-chemical characterisation of polymers. ○ Adviser for graduate and post-graduate thesis and coordinator of research activities of the student in the field of paper chemistry and technology. ○ Performing fundamental and applicative research in the field of paper chemistry (research for doctoral thesis during 1981 -1986) and valorization of annual plants as raw materials in paper industry. ○ Management of research and design projects, mainly for national paper industry
Name and address of employer	“Gheorghe Asachi” Technical University of Iasi
Type of business or sector	High education and research

Dates	1969 -1980
Occupation or position held	Technology Engineer and Manager
Main activities and responsibilities	<ul style="list-style-type: none"> ○ Technological engineer in straw pulp production, implying mainly coordination and control of industrial laboratories, as well as the investigations on technological aspects of raw material preparation, pulping and bleaching technologies, chemicals and energy recovery. ○ Manager of coated paper production plant, implying planning and control of all production aspects; investigations on coating formula efficiency and providing solutions for quality and cost optimization. ○ Manager of the Department for Planning, Organizing and Monitoring of Production: planning, organizing, interactive monitoring and reporting on all production plants – bleached straw pulp, printing and writing paper grades, coated paper, scholar and office items.
Name and address of employer	Integrated Pulp and Paper Mill Calarasi, 1 Prelungirea Bucuresti, Calarasi, Romania
Type of business or sector	Industry - pulp and paper sector

Education and training

Dates	May 1981 – February 1987
Title of qualification awarded	Doctor Engineer
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> ○ <i>Contributions to neutral / alkaline papermaking</i>: mechanism of paper sizing with alkyl–dimercetene (AKD) emulsions; role of cationic polymers in the increasing AKD effectiveness; neutral sizing of paper with rosin dispersions; calcium carbonate retention for efficient production of printing paper grades. ○ <i>Occupational skills covered</i>: concept and development of new methods to investigate papermaking processes at lab scale; factorial programming of the experiments; UV-Vis Spectroscopy and Mass Spectroscopy; developing lab equipment for paper rheology studies
Name and type of organisation providing education and training	“Gheorghe Asachi” Polytechnic Institute of Iasi (former name of “Gheorghe Asachi” Technical University of Iasi, before 1989)
Level in national or international classification	ISCED5

Dates	1964 – 1969
Title of qualification awarded	Chemical Engineer
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> ○ <i>Chemical engineering fundamental courses and applications</i>: organic, inorganic, analytical and physical chemistry; physics; theoretical mechanics, electronics, thermodynamics, material sciences. ○ <i>Courses and application for specialization on the Pulp, Paper and Man-made Fibres</i>: wood chemistry, physics and chemistry of polymers, pulp and paper technologies, equipments in pulp and paper industry, man-made fibre technologies, industrial management.
Name and type of organisation providing education and training	“Gheorghe Asachi” Polytechnic Institute of Iasi. Romania
Level in national or international classification	ISCED5

Dates June 2001, October 1996, July 1995, June-July 1991,

Title of qualification awarded

International documentary stages/ other training programs

Principal subjects/occupational skills covered

- o June 2001 - Visiting Professor at *Universidada de Beira Interior*, Covilha Portugalia: teaching courses for doctoral students (Colloidal Chemistry in Papermaking); documenting on new lab equipments for wet-end chemistry and paper physics.
- o October 1996 - Training course on *Wet End Chemistry* by Professor William E. Scott from Miami University, USA. This training was in the frame of research stage at *Sonoco Products Co.*, U.S.A
- o July 1995 – English Open Learning School, Devon, UK
- o September 1991 – Visiting Scientist to Weizman Institute, Rehovot, Israel: documentary stage on the characterisation of cellulose fibres.

Personal skills and competences

Mother tongue(s)

Specify mother tongue: Romanian

Other language(s)

Self-assessment

European level (*)

English

French

Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
A2	Basic user	A2	Basic User	A1	Basic User	A1	Basic User	x	
A1	Basic User	A1	Basic User	x		x		x	

(*) *Common European Framework of Reference for Languages*

Social skills and competences

o **Communication skills and team working:**

- *Experience in the teaching and training at different levels*, including post-graduate courses for the pulp and paper industry professionals (1992 – Water management in papermaking; 2001– Paper and board recycling; Progress in paper chemistry; 2004 – Advanced technologies for recovered paper processing, Progress in paper web forming; 2008 – training courses in the frame of PHARE projects for human resources development in pulp and paper industry of Romania).
- *Experience in building research teams at different levels*, including students groups, PhD students and postdoctoral researchers, as well as, mixed groups consisting of experts from university, research institute and industry: supervising of the 85 license thesis, 32 master dissertations, 5 doctoral theses finalized, 4 running doctoral theses, 1 postdoctoral research stage, the coordination and management of 34 projects with Romanian Paper mills, 7 projects in the frame of national research programs (ORIZONT 2000, CEEX, PHARE, PNCID 2), and 2 European projects (FP5, FP7).
- *Experience in chairing scientific sessions and meeting*, in the frame of following events: The 14th International Symposium on Cellulose Chemistry and Technology (ISCCT), September 2010, Iasi, Romania; International Conference on the Environmental Engineering and Management, September 2009, Tulcea, Romania; 3rd International Conference-ECOWOOD 08, September 2008, Porto, Portugal; Conference “Improvements in the understanding and use of de-inking technology”, October 2008, Bordeaux, France; Closing Symposium in the COST Action E32 “Paper in printing Process”, October 2007, Grenoble, France; Conference “Paper/Ink Properties and their Relation to Offset Printability”, October 2005, Madrid, Spain; 28th EUCEPA Conference “Sustainable Development for the Pulp and Paper Industry”, Lisbon, April 2003; 3rd Workshop of the EPPIC Thematic Network, Iasi- Romania, 4-5 September, 2003; 15th PTS Symposium “Chemical Technology in Papermaking”, September 2002, Munich, Germany; 12th ISCCT, September 1999, Iasi, Romania; The 14th International Conference on Composites Engineering, 1997, Hawaii, USA.

Organisational skills and competences

- Adaptation skills to multi-cultural environments:
 - Exploiting networking opportunities offered by COST Program to exchange the knowledge and experience between our university and research organizations from Europe, focusing on young researchers training in the institutes/universities with advanced equipments and lab tools.
 - Active participation in the coordination of different activities in the frame of Domain Committee off Forest Products and their Services (FPS) which is involving experts of 36 European countries.
 - Work with multinational research groups in the FP5 Network-EPIC (2001-2004) and FP7 project SORT IT (2008-2011).
 - Participation to the international workshops, conferences and meetings in: Germany, France, Spain, Portugal, The Netherlands, Slovenia, Croatia, Turkey, Czech Republic, Hungary, Bulgaria, Slovak Republic, South Caroline, Hawaii, Canada.

- **Organisation of scientific events:**
 - Member of the organizing and program committees of *The International Symposium on Cellulose Chemistry and Technology (ISCCT)* organized by Paper Engineering Department of "Gheorghe Asachi" Technical University of Iasi (1985, 1989, 2003, 2010).

 - Member of Program Committee and proceedings reviewer of *The International Symposium "Interface Chemistry"*, 8-10 February, 2010, Munich, Germany.

 - Organizer of two scientific events in the frame of FP7 project SORT IT (*Recovered Paper Sorting by Innovative Technologies*): 1st SORT IT Workshop, within the 14th ISCCT, 8-10 September 2010, Iasi; SORT IT Roundtable within ICEEM 05 (International Conference on the Environmental Engineering and Management), 16th September 2009, Tulcea, Romania.

 - Organizer of the 3rd EPPIC Workshop- *A Competitive European Pulp & Paper Industry* (FP5 project), within the 13th ISCCT, 21-23 September 2003, Iasi.

 - Member of the organizing and program committees for *The International Symposium on Pulp and Paper Industry Developments*, organized by CEPROHART Braila (1998, 2002, 2006, 2008, 2011)

 - Member of Organizing Committee for meetings and conferences in the frame of COST Actions;
 - COST Action E48 – *Limits of paper Recycling*: Management Committee and Working Groups Meeting of the, 2-3 October 2008, Iasi, Romania;
 - COST Action E32 *Characterization of Paper Surface for Improved Printing Paper Grades: Conference "Paper/Ink Properties and their Relation to Offset Printability"*, 6-7 October 2005, Madrid, Spain;
 - organizer of the *Management Committee and Working Groups Meetings*, 10-11 May 2007, Brasov, Romania;
 - Closing Symposium in the COST Action E32 "Paper in printing Process", 4-5 October 2007, Grenoble, France.

- **Management skills:**
 - Member of Core Group for management activities in the *COST Domain Committee of Forest Products and their Services (FPS)*, period 2010-2014.

 - Member of Steering Group, leader of WG6 – Dissemination and Communication in the FP7 Project – SORT IT (2008 – 2011), leader of Stakeholder Group for communication of the environmental results to European Commission

 - Member of Steering Group and leader of the Theme 4 "Sustainable knowledge acquisition" within the FP5 Network EPPIC „ *A Competitive European Pulp & Paper Industry*" (2001- 2004).

 - COST Actions: member of the Management Committee (MC) and leader of WG6 – Dissemination and Knowledge Transfer in COST Action FP 1003 – (2010-2014); MC member in the *COST Action E48 – Limits of paper Recycling* (2005-2009) and leader of the Task Force Group for developing scenarios on the future of paper recycling in Europe; member of the MC and coordinator of the website in the COST Action E46 *Improvements in the understanding and use of de-inking technology* (2004 -2007); : Vice Chair and member of the Steering Committee in COST Action E32, *Characterization of paper surface for improved printing paper grades* (2003- 2007); MC member in the COST E14, *Towards zero liquid effluent in papermaking* (1999-2002); MC member in the COST E17, *Microbiology in papermaking* (2000-2003); MC member in the COST E26, *Effective solutions to reduce the impact of waste arising from the Papermaking process* (2003- 2006); MC member in the COST E14, *Towards zero liquid effluent in papermaking* (1999-2002)

 - Experience in the management of industrial processes that was gained during eleven years work as technology engineer in a complex pulp and paper mill of Romania.

Technical skills and competences	<ul style="list-style-type: none"> ○ <i>Extended experience in industrial research projects</i>: SORT IT FP7 project is a typical industrial project aiming to develop a sensor based sorting plant for sustainable technology of paper and board recycling; 2 research projects for industrial application at <i>Sonoco Products Co.</i>, U.S.A; 34 research and design projects with Romanian pulp and paper mills. <ul style="list-style-type: none"> ○ <i>Developing training courses for Romanian pulp and paper industry</i>: Programs support for professional formation of technical personnel from the pulp, paper and board industry - Project POSDRU/2011-2013, supported by EC and Romanian Government; Technologies and technological processes for packaging paper grades, training courses for SC AMBRO Suceava and SC PETROCART Piatra Neamt, project PHARE 2008; Developments and innovations in the technology for recovered paper processing – SC VRANCART Adjud (2004); Technical personnel training for papermaking technologies and paper machine exploitation, SC SOMES Dej (1995, 2001) ○ Extended experience in teaching technical courses and design projects: papermaking technologies and equipment; paper machine – technological design; process water management in papermaking.
Computer skills and competences	Windows, MSWord, Excel, PowerPoint, Internet (mostly self-taught)
Other skills and competences	<ul style="list-style-type: none"> ○ Review of scientific publications <ul style="list-style-type: none"> ▪ <i>ISI Journals</i>: <ul style="list-style-type: none"> - Cellulose Chemistry and Technology (Edited by Romanian Academy) - Materials Science and Engineering B. (Edited by Elsevier) - Colloids and Surfaces A: Physicochemical and Engineering Aspects (Edited by Elsevier) - Industrial & Engineering Chemistry Research (Edited by ACS Paragon Plus Environment) - BioResources (Edited by NC State University – College of Natural Resources) ▪ <i>Proceedings</i>: <ul style="list-style-type: none"> - International Symposium “Interface Chemistry”, organized by PTS, Munich 2010 - <i>International Symposium on Cellulose Chemistry and Technology</i>, organized by Paper Engineering Department of “Gheorghe Asachi” Technical University of Iasi. - International Symposium on Pulp and Paper Industry Developments, organized by CEPROHART Braila, Romania ○ Evaluation of the projects <ul style="list-style-type: none"> ▪ Member of expert evaluation panel -FP7-ENV-2012, Appointment Letter CT-Ex 2006 C11 343-103 ▪ Member of expert evaluation panel -FP7-NMP-2010-SMALL-5, ▪ Proposals for COST Actions of FPS (Forest Products and Services) Domain (all calls from 2009, 2010 and 2011) ▪ National Council of Scientific Research for High Education System – Commission Engineering Science (2004 -2006) ▪ National Research Program “ORIZONT 2000”, Commission – Technologies, materials and chemical products (1999-2000) ▪ National Research Program « ORIZONT 2000 » Commission – Wood, Pulp and Paper (1998 - 2000) ○ Evaluation of the PhD Thesis: <ul style="list-style-type: none"> ▪ Member of evaluation panel “ ECE/FAO Thesis Award on Sustainable Forest Management”, June – September 2011 ▪ Member of Assessment Committee for PhD Thesis in the field of Chemical engineering – 11 committees (2002 – 2011)
Driving licence	Category B
Additional information	<ul style="list-style-type: none"> ○ Member of Professional Associations: <ul style="list-style-type: none"> • Technical Association of Pulp and Paper Industry-TAPPI , USA (1991) • Romanian Association of the Pulp and paper Industry - ATIHR (1991) • International Lignin Institute – ILI, Swiss (1992) • Romanian Society of Chemical Engineering - SRIC (1998) • Alumni of The Industrial Chemistry Faculty (2000)

○ **Courses:**

- Fundamentals of Papermaking
- Paper machine operations
- Chemical processes in papermaking
- Paper and board recycling
- Life cycle management of polymer materials

○ **Research Area:**

- *Developing multifunctional bio-chemicals for papermaking:* synthesis of chitosan derivatives for paper surface coating; nano-composite materials based on bio-polymers for the development of anti-microbial
- *Role of chemical-colloidal phenomena in papermaking* – aggregation mechanisms in papermaking and their effects on paper formation and paper properties, as well as on developing new additive systems to control the flocculation phenomena in wet end papermaking systems.
- *Environmental aspects of papermaking* – eco-friendly technology to producing high yield pulp based on annual plants, development of multi-functional bioadditives for papermaking, methodology for life-cycle studies of papermaking processes.
 - *Paper and board recycling* – improving papermaking potential of recycled fibers, impact of paper recycling on the wet end chemistry and identifying of optimum additive systems, reducing solid waste and sludge generation in recovered paper processing.
 - *Sustainable packaging production* – focusing on exploring full potential of cellulose fibre resources; identifying bio-chemicals sources for recyclability improvement; application of life cycle assessment principle for sustainability evaluation.
 - *Waste management* – integrated valorization of paper industry, agricultural and urban biowastes to produce papermaking fibres, chemicals and bio-fuel.

○ **Publications total – 176:**

- Books – 9
 - Articles published at international level (ISI journals – 44; IDB journals – 5; proceedings/volumes of scientific international events with ISSN or ISBN – 53) – **108**
 - Articles published at national level (journals and volumes of the scientific events) - **59**
- **Patents – 4**
- **Proposal patent -1**

- **Participation in the research programs:**
 - *National level:*
 - PNCDI 2 – Module 3 “*Evaluation of Technologies for Recovered Paper Sorting*” (2010-2011)
 - PNCDI2 - BIOSUN “*Biocomposites of regenerating resources for biodegradable plant seedling pots*” (2007-2010)
 - CEEX-FILTRAL “*Micro-filter composites performing in food industry*”(2006-2008)
 - CEEX-RIWATECH “*Advanced cleaning technologies for recycling of industrial effluents*” 2005- 2007)
 - ORIZONT 2000 “*Controlling the chemical-colloidal phenomena of the wet end systems with high closure degree*” (2000-2002)
 - Industry research contracts: 34
 - *International level:*
 - The 7th Framework Program, Call ENV.2007.3.1.3.2. – new technologies for waste sorting, **SORT IT** „*Recovered Paper SORTing with Innovative Technologies*” (2008-2011
 - The 5th Framework Program, Competitive and Sustainable Growth , NETWORK- EPPIC „ *A Competitive European Pulp & Paper Industry*” (2001- 2004)
 - ECOLINKS CHALLENGE GRANT “*Reduction of municipal solid waste by recycling, Municipality of Iasi*” (2000- 2001)
- **Scientific and Technical Cooperation program -COST:**
 - COST Action FP 1003, *Impact of Renewable materials in packaging for sustainability – development of renewable fibre and bio-based materials for new packaging applications* (2010-2014)
 - COST Action E48, *Limits of paper recycling*, (2005-2009)
 - COST Action E46, *Improvements in the understanding and use of de-inking technology* (2004 -2008)
 - COST Action E46, *Improvements in the understanding and use of de-inking technology* (2004 -2008)
 - COST Action E36, *Simulation and modelling in papermaking* (2003-2008)
 - COST E32, *Characterization of paper surface for improved printing paper grades* (2003- 2007)
 - COST E 26, *Effective solutions to reduce the impact of waste arising from the Papermaking process* (2003- 2006)
 - COST Action E 17, *Microbiology in papermaking* (2000-2003)
 - COST Action E14, *Towards zero liquid effluent in papermaking* (1999-2002)

Annexes Annex 1: List of publications

Elena Bobu CV Annex: List of Publications

Books

- ¹ The Future of Paper Recycling in Europe. Opportunities and Limitations
J-E Levlin, H. Grossmann, B. Stawiski, **E. Bobu**, B. Read, J. Ringman, A. Blanco, published by PITA, Bury, Greater Manchester (2010)
- ² Practices for sustainable management of water in paper industry
Teodosiu C., **Bobu E.**, Gavrilescu D., Gavrilescu M., Lupu L., Barjoveanu G., Ed. CERMI, Iasi, 2007 (ISBN 978-973-667-253-8)
- ³ Romanian-English Dictionary for Pulp & Paper Industry
Elena Bobu, D. Gavrilescu, V. I. Popa, Ed. ECOZONE Iasi, 2005 (ISBN 973-868447-6-5)
- ⁴ English- Romanian Dictionary for Pulp & Paper Industry
D. Gavrilescu, **Elena Bobu**, V. I. Popa, Ed. Dosoftei Iasi, 2002 (ISBN 973-8108-09)
- ⁵ Romanian School of Cellulose and Paper, 1949 - 1999. (Romanian)
P. Obrocea, V. I. Popa, **Elena Bobu** and D. Gavrilescu, Ed. Bacovia, 1999 (ISBN 973-9362-39-7)
- ⁶ Chemical-Colloidal Processes in Papermaking
Elena Bobu and V.I.Popa, Ed. CERMI, 1998 (ISBN 973-98443-2-4)
- ⁷ Fundamentals of Papermaking (Romanian)
P. Obrocea and **Elena Bobu**, Technical University Press, 1993).
- ⁸ Paper Technology - Practical applications (Romanian)
P. Obrocea, **Elena Bobu** and D. Gavrilescu, (1987), Technical University Press, Iasi (1987)
- ⁹ Pulp Technology - Practical applications (Romanian)
P. Obrocea, D. Gavrilescu and **Elena Bobu**, Technical University Press, Iasi (1987).

Journals included in ISI Web of Knowledge

- ¹ **E. Bobu**, R. Nicu, J. Desbriers, Chitosan as cationic polyelectrolyte in wet-end papermaking systems, *Cellulose Chemistry and Technology* **45** (1-2), 105-111 (2011)
- ² E. Ardelean, Gh. Niculescu, C. Grozea, **E. Bobu**, Effects of different consolidation additives on ageing behaviour of archived document paper, *Cell. Chem. Techn.* **45** (1-2), 97-103 (2011)
- ³ **E. Bobu**, A. Iosip, R. Nicu, F. Ciolacu, Influence of recovered paper quality on recycled pulp properties, *Cellulose Chemistry and Technology* **44** (10): 513-519 (2010)
- ⁴ R. Miranda, **E. Bobu**, H. Grossman, A. Blanco, Factors influencing a higher use of recovered paper in the European paper industry, *Cell. Chem. Techn.* **44** (10): 419-430 (2010)
- ⁵ P. Nechita, F. Ciolacu, **E. Bobu**, The biodegradability and mechanical strength of nutritive pots for vegetable planting based on lignocellulose composite materials, *BioResources*, **5** (2): 1102-1113 (2010)
- ⁶ **Elena Bobu**, Florin Ciolacu, Alina Iosip, Potential Benefits of Recovered Paper Sorting by Advanced Technology, *Cellulose Chemistry and Technology* **44** (10): 461-471 (2010)
- ⁷ **Elena Bobu**, Maria Ciobanu, Florin Ciolacu, In-situ loading of cellulose fibres with calcium carbonate precipitated by different methods, *Cell. Chem. Techn.* **44** (9): 379-387 (2010)
- ⁸ **Elena Bobu**, Dan Gavrilescu, Overview on Paper and Board Recycling in Europe, *Environmental Engineering and Management Journal* **9**, (1): 159 – 165 (2010)
- ⁹ Dan Gavrilescu, **Elena Bobu**, Driving forces and barriers for sustainable use of recovered paper in Papermaking, *Environmental Engineering and Management Journal*, **8**, (5): 1129 - 1135 (2009)
- ¹⁰ E. Ardelean, R. Nicu, D. Asandei, **E. Bobu**, Carboxymethyl-chitosan as Consolidation Agent of Old Documents on Paper Support, *European Journal of Science and Theology* **5** (4): 53-61 (2009)
- ¹¹ Doina Asandei, Laura Bulgariu, **Elena Bobu**, The lead adsorption from aqueous solutions by Chitosan, *Cellulose Chemistry and Technology* **43** (4-6): 211-216 (2009)
- ¹² Maria Ciobanu, **Elena Bobu**, Improving the Recyclability of Printing Paper by In-situ Filler Loading, *Environmental Engineering and Management Journal* **8** (2): 307 -313 (2009).
- ¹³ **Elena Bobu**, Ciolacu Florin, Evaluation of neutral deinking methods in processing different printed papers, *Cellulose Chemistry and Technology* **42** (7/8): 403-412 (2008)
- ¹⁴ Dan Belosinschi, **Elena Bobu**, Effects of coagulants on the DCS'accumulation in process water of papermaking, *Environmental Engineering and Management Journal* **7** (3), **269-277** (2008)
- ¹⁵ **Elena Bobu**, Dan Belosinschi, Mathematical Modeling of Wood Extractives Adsorption on Bentonite Microparticles, *Papermaking Professional*, English supplement of Wochenblatt f. Papierfabrikation), **5** (1), **1-7** (2008)
- ¹⁶ Elena Ardelean, Doina Asandei, **Elena Bobu**, Study on some resizing and consolidation methods of old paper support, *European Journal of Science and Theology* **3** (3), **53-61** (2007)
- ¹⁷ Dan Belosinschi, **Elena Bobu**, Process water of papermaking: Model building and characterization, *Environmental Engineering and Management Journal* **6** (4), **261-68** (2007)
- ¹⁸ **Elena Bobu** and Florin Ciolacu, Environmental aspects of enzyme deinking, *Papermaking Professional*, published by Wochenblatt für Papierfabrikation, **4** (1), **6-13** (2007)
- ¹⁹ **Elena Bobu** and Dan Gavrilescu, Reducing Liquid Effluent in Papermaking” *Environmental Engineering and Management Journal*, **5** (6), **1351-61** (2006)
- ²⁰ **Elena Bobu**, Raluca Parpalea, The bentonite and micropolymer as anionic components in microparticle retention systems, *Professional Papermaking* **1**, **1-5** (2005)
- ²¹ **Elena Bobu**, EU environmental policy for industrial pollution control, IPPC Directive, *Environmental Engineering and Management Journal* **2** (2), **105-119** (2003)
- ²² **Elena Bobu**, Tudorita Moraru and V. I. Popa, Papermaking potential improvement of secondary fibers by enzyme treatment, *Cellulose Chemistry and Technology* **37** (3-4), **305-315** (2003)
- ²³ **Elena Bobu**, F. Ciolacu and Raluca Parpalea, Effective use of FWA's in papermaking by controlling the interaction with Other chemicals, *Wochenblatt f. Papierfabrikation* **130** (22), **1510-1524** (2002)
- ²⁴ **Elena Bobu**, F. Ciolacu, N. Anghel, Prevention of colloidal material accumulation in short circulation of paper machine, *Wochenblatt f. Papierfabrikation*, **130** (9): **576 -583** (2002)
- ²⁵ **Elena Bobu**, Old and new aspects on the mechanism of the AKD sizing, *Wochenblatt f. Papierfabrikation*, **128** (14/15): **976-582** (2000)
- ²⁶ **Elena Bobu**, V. I. Popa and Tudorita Moraru, The control of colloidal material in papermaking systems with high level of secondary fibres, *Wochenblatt f. Papierfabrikation* **27** (20), **1314-1319** (1999)
- ²⁷ **Elena Bobu**, Benea, Gh. Maria Bacaran, Performance and Limits of Starch as a Papermaking Additive, *Cellulose Chemistry Technology*, **31** (5/6), **499 – 513** (1997)
- ²⁸ Popa, V. I., Iuliana Spiridon, **Elena Bobu**, Some preliminary data of *Asclepias syriaca* seed hairs in pulp and paper manufacture, *Cellulose Chemistry Technology* **30** (3/4), **223-227** (1996)
- ²⁹ Popa, V., **Elena Bobu** Beleca, C. and Violeta Negreanu, Papermaking additives from kraft lignin, *Cellulose Chemistry and Technology* **28** (4) **445-455** (1994)
- ³⁰ **Elena Bobu**, Popa, V., Beleca, C., Modified lignin in composite structures, *Cellulose Chemistry and Technology* **27**, (3) **332-337** (1993)
- ³¹ **Elena Bobu**, Cimpoiu, Gh, Present trends in alkaline papermaking, *Cellulose Chemistry and Technology* **27** (2), **225-232** (1993)

- ³² **Elena Bobu**, Popa, M., Bodarlau, R., *Asclepias syriaca* - a potential papermaking fibre source, II Effects of the treatment conditions on alkaline peroxide pulping results, *Cellulose Chemistry and Technology* **26** (6), **713-719** (1992)
- ³³ **Elena Bobu**, Rusan V, *Asclepias syriaca*-potential papermaking fibre source. I. Methods for papermaking properties developments, *Cellulose Chemistry and Technology* **26** (5), **619-625** (1992)
- ³⁴ Poppel, E., **Elena Bobu**, Some aspects regarding hydrodynamic rheological behaviour of paperstock containing calcium carbonate, *Cellulose Chemistry and Technology* **24** (1), **115-121**, (1990)
- ³⁵ **Elena Bobu**, Popa Valentin, Chemically modified lignin-multifunctional additive in papermaking, *Cellulose Chemistry and Technology* **23** (6), **612-617** (1989)
- ³⁶ Poppel, E., **Elena Bobu**, Neue Erkenntnisse zur Leimung und Füllen von Papier, *Zellstoff und Papier* **37** (3), **93-97**
- ³⁷ **Elena Bobu**, Poppel, E., Effects of paperstock parameters on paper ageing behaviour, *Cellulose Chemistry and Technology* **22** (1), **123-129** (1988)
- ³⁸ Poppel, E., **Elena Bobu**, Papierleimung in Gegenwart von Calciumcarbonat als Füllstoff, *Zellstoff und Papier* **35** (6), **212-216** (1986)
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Prof. univ. dr. ing. ELENA BOBU

