

CURRICULUM VITAE

A. Personal information:

Name and surname: **VALENTIN POPA**

Date and place of birth: 15.12.1946, Panciu, Vrancea, Romania

Status: Emeritus Professor

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B. Education

Polytechnic Institute of Iasi, Faculty of Industrial Chemistry, speciality: Pulp and Paper Technology, Chemical engineer (1969)

PhD thesis: Researches in the field of seaweeds chemistry, Supervisor: Cristofor I.Simionescu (1976)

Visiting scientist: Academy of Science, Coreea (1972), Technical University of Helsinki, Finland (1978), Institute of Biotechnnology, Wien, Austria (1995), Institute for Research and Design for Pulp and Paper, Braila, Romania (1976), Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania (1985,1986)

C. Professional experience

1969 -1977, Teaching assistant, Polytechnic Institute, faculty of Industrial Chemistry,, 1977 – 1990, lecturer, 1990 – 1992, assistant professor, 1992- professor, 2012-present - emeritus professor

D. Courses

Wood Chemistry, Biotechnology in the Pulp and Paper Industry, Research Strategy, Reactions of Natural Polymers

E. Scientific fields of interest:

Biosynthesis and biodegradation of chemical compounds of wood, Biological properties of natural compounds, Biorefining, Bioproducts, Bioremediation

Key words: Bioresources, Biotechnology, Biorefining

PhD programs supervisor in the field of chemical engineering; 34 theses defended

F. Scientific activities:

Books (printed courses manuals and monographs):45; **papers** Web of Science evalauted : 126: referred published papers: 91; bulletins: 41; national proceedings: 71; international proceedings: 70; communications and lectures: 234; Scientific projects: 70; Patents: 6; Applied technologies: 3

G. Activities in academic community:

Activities in commissions in faculty, university, at national level, management activities: Scientific secretary of professor council of faculty of Chemical Engineering (1996-2000); Dean (2000-2004); Vice-rector and member of Senate of University (2004-2008); Expert CNEEA/ARACIS (2001-2005); Member of internal evaluation commissions in Technical University of documents for accreditation of programs of licence and master degrees (2006-2011); Member in commissions for contests for didactic and scientific degrees and PhD defense presentations; President of National Commission for Scholarships and Education tax credits (2009-2012); Organizer of National and International Scientific Symposia (25).

Member of Associations / Academy: Technical Association for Pulp and Paper Industry, International Institute of Lignin, Romanian Society for Biotechnology and Biongingering, Society for Environmental Protection and Sustainable Development, Romanian Society for Chemistry, International Association of Scientific Papermakers UK, Fellow of International Academy of Wood Science, American Chemical Society; Correspondent Member of Romanian Academy for Technical Science.

Member of Editorial Boards and Reviewer:

Cellulose Chemistry and Technology-Editor-in-chief;

Celuloza si Hartie, Buletinul Stiintific al Institutului Politehnic Iasi – Seria inginerie chimica, Environmental Engineering and Management Journal, Global Science Books- Functional Plant Science and Biotechnology, European Journal of Environmental and Safety Sciences.

Reviewer: eXPRESS Polymer Letters, FOODCHEM, Iranian Polymer Journal, African Journal of Environmental Science and Technology, Acta Biochimica Polonica, Wiley Interdisciplinary Reviews: Energy and Environment, Journal of Applied Polymer Science, Cellulose, EEMJ, Holzforschung, Symposium Environmental Management and Engineering EME 2011), organized by IASTED (International Association of Science and Technology for Development), ICEEM/06-Balaton, CSE 2011 Brasov, The Journal of Physical Chemistry, Composites part B, Journal of Biomedical Materials Research: Part A, EPNOE 2011, 2nd EPNOE International Polysaccharide Conference "Polysaccharides as Source of Advanced and Sustainable Materials" Wageningen, The Netherlands, member of Scientific Committee (review 14 papers), Industrial Crops and Products, Biomacromolecules, The Second IASTED International Conference on Environmental Management and Engineering, EME 2010 ~ July 15 – 17, 2011, Banff, Alberta, Canada, Carbohydrate Polymers, Cellulose Chem. Technol., Symposia: Polysaccharides as a source of advanced materials, Turku, Finland, 21-24sept., 2009-(8 papers); International Journal of Molecular Sciences; International Journal of Chemical Reactor; Journal of Biomechanics, Biomedical and Biophysical Engineering, European Polymer Journal, Reviewer and member of Scientific Committee of The 5th International Conference Management of Technological Changes, Alexandroupolis, Greece, August, 25-26, 2007-(4), Thermochemica Acta, Journal of Analytical and Applied Pyrolysis, ProLigno.

Awards or honors and distinctions: Prize “Gheorghe Spacu” of Romanian Academy for Studies in the field of seaweeds chemistry (1976), Award for excellence in education (Ministry of Education-1986); Honorary citizen of Panciu-Vrancea (2003); National Order of Merit for Education- Commander Degree (2004); Honorary Diploma of Romanian Chemical Society (2004); Excellence Diploma for Participation in program FP6 (2006); Excellence Diploma for Extension of competences of Laboratory for analysis and control of environmental factors in the field of estimation, characterization and valorification of renewable and recyclable by chemical and biotechnological procedures (Chamber for commerce and industry-Bacau-2009); Certificate of Appreciation for reviewers of ACS publications (2011), Certificate of Reviewing from Industrial Crops and Products journal (2014).

Invited professor: Universite de Sherbrooke and University McGill-Canada, 2003; STFI-Suedia 2008; Latvian State Institute of Wood Chemistry, Latvia-2009 : „Petru Poni” Institute of Macromolecular Chemistry Iasi, 2011; EMPA, St.Gallen and Dubendorf, Switzerland - project IMMOPHENOL,2014

Papers

1. I. Volf, I. Ignat, M. Neamtu and V. I. Popa

Thermal stability, antioxidant activity and photo-oxidation of natural polyphenols

Chemical Papers, DOI 10.2478/s11696-013-0417-6 /68 (1) 121–129 (2014)

2. Alina I. Chiriac, Francisco I. Javier Pastor, Valentin I. Popa, Magdalena Aflori, Diana Ciolacu

Changes of supramolecular cellulose structure and accessibility induced by the processive endoglucanase Cel9B from *Paenibacillus barcinonensis*

Cellulose, DOI 10.1007/s10570-013-0118-x/ 21(1), 203–219 (2014)

3. I. A. Gilca, R. E. Ghitescu, A. C. Puitel and V. I. Popa

Obtaining lignin nanoparticles by chemical modification

Iranian Polymer Journal, DOI: 10.1007/s13726-014-0232-0/ 23(5) 355-363 (2014).

4. I. A. Gilca and V. I. Popa

Study on biocidal properties of some nanoparticles based on epoxy lignin

Cellulose Chem. Technol. 47 (3-4), 239-245 (2013)

5. I. Ignat, D. G. Radu, I. Volf, A. I. Pag and V. I. Popa

Antioxidant and antibacterial activities of some natural polyphenols

Cellulose Chem. Technol. 47 (5-6), 387-399 (2013)

6. C. Tanase, I. Volf, S. Vintu, R. Gradinaru and V. I. Popa

Potential applications of wastes from energy and forestry industry in plant tissue culture

Cellulose Chem. Technol., 47 (7-8), 553-563 (2013)

7. C.Tanase, I.Volf and V.I.Popa

Assesment of snergic regulatory actions of spruce bark extract and deuterium depleted water on maize (*Zea mays* L.) crops

Environmental Engineering and Management Journal, 12 (6),1287-1294 (2013)

8.A. Stingu, I.Volf, V.I.Popa and I.Gostin

New approach concerning the utilization of natural amendments in cadmium phytoremediation

Industrial Crops and Products, 35 (1), 53-60 (2012)

9. A.R.Hainal, A.M.Capraru, I.Volf and V.I.Popa

Lignin as a carbon source for the cultivation of some *Rhodotorula* species

Cellulose Chem. Technol., 46 (1-2), 87-96 (2012)

10. L. Ignat, M.Ignat, C.Ciobanu, F.Doroftei, V.I.Popa

Effects of flax lignin addition on enzymatic oxidation of poly (ethylene adipate) urethanes.

Industrial Crops and Products (2011), doi:10.1016/j.indcrop.2011.03.010, 34 (1) 1017– 1028 (2011)

Books

1. Valentin Popa, Editor, Polysaccharides in medicinal and pharmaceutical applications, Smithers Rapra, 2011, 408 p., ISBN: 978-1-84735-436-5 (hardback)

2. Valentin Popa,Chap. 2 Hemicelluloses in pharmacy and medicine in Polysaccharides in medicinal and pharmaceutical applications, Ed. Valentin Popa, Smithers Rapra, 2011, ISBN: 978-1-84735-436-5 (hardback), p.57-88

3. Severian Dumitriu (founder editor) and Valentin Popa (editor), Polymeric Biomaterials (2vols), Structure and function (vol I-902 p.); Medicinal and Pharmaceutical Applications (vol II-770 p.), CRC Press/Taylor&Francis, Publication Date: January 16, 2013 | ISBN-10:1420094726 | ISBN-13:978-1420094725 | Edition: 3

4. Valentin I. Popa, Lignin in Biological System, in Polymeric Biomaterials

(2vols), Structure and function (vol I), Severian Dumitriu (founder editor) and Valentin Popa (editor), 2013, p.709-738

5. Georgeta Cazacu, Mirela Capraru and Valentin I.Popa, Chap. 8 Advances Concerning Lignin Utilization in New Materials, in Advances in Natural Polymers, Advanced Structured Materials 18, Eds. S.Thomas et al ,doi : 10.1007/978-3-642-20940-6_8, Springer-Verlag Berlin Heidelberg, 2013

6. Ioana Ignat, Irina Volf and Valentin I.Popa, Chap 56 -Analytical Methods of Phenolic Compounds, in Handbook of Natural Products, Eds. K.G.Ramawat, J.M.Merillon, DOI 10, 1007/978-3-642-221444-6_56, Springer-VerlagBerlin Heidelberg, 2013

7. V.I.Popa and I.Volf, Strategia cercetarii experimentale (Strategy of experimental research), Ed. Politehniuum, Iasi, 2013, 180 p., ISBN978-973-621-403-5

8.. Valentin I.Popa, Editor, Pulp production and processing: from papermaking to high-tech products, Smithers Rapra, 2013, 520 p. ISBN-978-1-84735-633- 8 (hardback); ISBN-978-1-84735 - 634-5 (softback); ISBN-978-1-84735- 637-6 (ebook)

9. V.I.Popa, Chapter 1- Biorefining and pulp and paper industry, in Pulp production and processing: from papermaking to high-tech products, Smithers Rapra, V.I.Popa (editor), p.1-28 (2013)

10. Maria Cristina Area and Valentin I.Popa, Wood Fibres for Papermaking, Smithers Rapra, 2014, 106 p. ISBN:978-1-90903-086-2 (hardback), 978-1-90903-087-9 (ebook)