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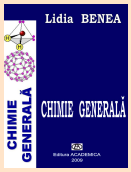
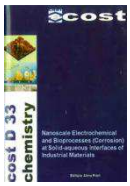
Cărţi, capitole şi volume publicate
Books and chapters in books

Nr crt	Autori/Titlu/Editura/An
1	**Lidia BENEA.** **ELECTRODEPUNERI COMPOZITE – IN TEORIE SI PRACTICA.** **COMPOSITE ELECTRODEPOSITION: THEORY AND PRACTICE.**  Editura PORTO FRANCO, 1998; 187 pagini. ISBN 973 557 490 X.
2.	**Lidia. BENEA.** **CHIMIE GENERALĂ,** Edit. Academica, **2009, 315 pagini.**  Editura Academica, **2009, 315 pagini.** **ISBN: 978-973-8937-45-1.**
3.	**Editors: L.. Benea**, G. Cârâc; 2009. Action Number: D33. Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-Aqueous Interfaces of Industrial Materials - Final Workshop.  **Editura Alma Print. ESF – COST. 2009. 97 pagini.** **ISBN/ISSN: 978-973-1937-09-0.** http://www.cost.esf.org/library/publications/(pbno)/8
4.	**Editors: Prof. Univ. Dr. Lidia BENEA**, Assoc. Prof. Dr. Simion BALIN **DVD Proceedings: COST D33 Final Workshop, May 13th May 15th 2009, Cluj Napoca ROMANIA.** **Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials**

Publisher: GALATI UNIVERSITY PRESS
Romania, 2009
ISBN: 978 - 606 - 8003 - 30 – 1.

5

Chapter in the book: Project Report.
Lidia BENEA: CH10. Nanostructured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigations. pp. 69-79.
COST ACTION 532, Materials, Physical and Nanosciences.
Triboscience and tribotechnology superior friction and wear control in engines and transmissions.

EUR 23308.
ISBN: 978-92-898-0040-2
ESF COST Office Brussels, Belgium, 2008.

6

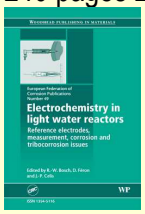
Chapter in the book:
L. Benea, F. Wenger, P. Ponthiaux, J.P. Celis.
Tribocorrosion behaviour of Ni-SiC nanostructured composite coatings obtained by electrodeposition. pp. 119-130.
Vol I
Chapter II, **Nanotechnologies & NanoTribology**
Book: ECOTRIB 2007.

EDITORS: Bojan Podgornik, *Faculty of Mechanical Engineering, University of Ljubljana*, Prof. Joze Vizintin, *Faculty of Mechanical Engineering, University of Ljubljana*, Prof. Kenneth Holmberg, *VTT, Finland*, Prof. Enrico Ciulli, *University of Piza, Italy*, Prof. Friedrich Franek, *AC2T, Austria*
PUBLISHER: *Slovensko društvo za tribologijo (Slovenian Society for Tribology)*
ISBN: 978-961-90254.

7

Chapter in the book:

Electrochemistry in light water reactors: Reference electrodes, measurement, corrosion and tribocorrosion issues (EFC 49).
ISBN 1 84569 240 3
ISBN-13: 978 1 84569 240 7
April 2007
240 pages 234 x 156mm hardback.

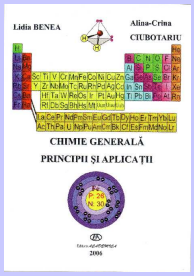


Editura Woodhead Publishing Limited, Abington Hall, Abington, Cambridge, CB1 6AH, England;
PART 3 ELECTROCHEMISTRY AND TRIBOCORROSION ISSUES
Tribocorrosion of stellite 6 alloy: mechanism of electrochemical reactions
*F Wenger and P Ponthiaux, Ecole Centrale Paris, France, **L Benea**, Dunarea de Jos University of Galati, Romania, J Peybernès, Commissariat à l'Energie Atomique (CEA) and A Ambard, Electricité de France (EDF), France*
- Introduction
- Experimental conditions
- Wear laws
- Electrochemical behaviour of stellite 6
- Conclusions
- References

Editors: D. Feron, J. P. Celis.
ISBN 1 84569 240 3; [ISBN-13: 978 1 84569 240 7], April 2007. 256 pages.

17

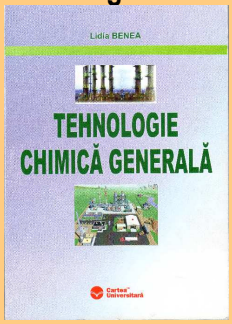
Lidia Benea şi Alina-Crina Ciubotariu;
Chimie Generală – Principii şi Aplicaţii.



Editura Academica Galati, 2006. 200 pagini.
ISBN (10): 973-8937-01-9; (13): 978-973-8937-01-7.

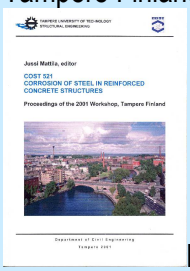
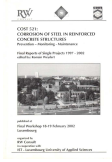
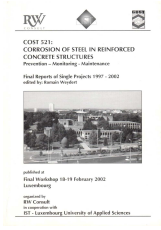
18

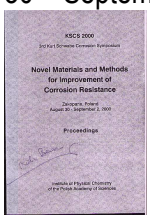
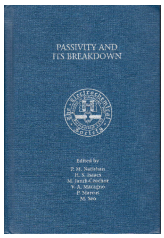
Lidia Benea.
Tehnologie Chimică Generală.



Editura Cartea Universitară, Bucureşti, 2005. 350 pagini,
ISBN: 973-731-106-X.

8	**Lidia Benea**, Viorel Iordache, François Wenger, Pierre Ponthiaux. **Tribocorrosion study of nanostructured SiC-Ni composite coatings.** **p. 179-187.** **Chapter TRIBOCHEMISTRY, Book:**  **2005. Editors:** K Homberg, et all. Publindustria, Portugal**.** COST 532 Conference "Integrated Engineering Surface Technology for Engine Applications" organized jointly by US NIST (USA –National Science Foundation) and COST-ESF (European Science Foundation). **ISBN 972-8953-01-1.**
9	**L. Benea**, P. L. Bonora, A. Borello, S. Martelli, F. Wenger, P. Ponthiaux, and J. Galland.**; Wear Corrosion Study of Nanostructured Composite Coatings Obtained by Electroplating.** In volumul **Corrosion and Corrosion Protection**. p. 851-863.  Edited by J. D. Sinclair, E. Kalman, M. W. Kendig, W. Plieth, W. H. Smyrl, PV 2001-22, San Francisco**,** USA, *Publicaţie ECS – The Electrochemical Society –USA,* **2001** ISBN: 1-56677-355-5.
10	**L. Benea**, O. Dossenbach, F. Wenger, P. Ponthiaux and J. Galland; ***Composite Coatings with Zirconium Oxide as Dispersed Phase and their Anticorrosion Properties***. **p. 214-223.**  In cartea: **ELECTROCHEMICAL APPROACH TO SELECTED CORROSION AND CORROSION CONTROL STUDIES**, European Federation of Corrosion Publications, Number 28. Edited by: P.L. Bonora and F. Deflorian; Ed. IOM Communications **2000, p. 214-223,** **ISBN 1-86125-110-6; ISSN: 1354-5116.** **Electrochemical Approach to Selected Corrosion and Corrosion Control Studies** Published for the European Federation of Corrosion European Federation of Corrosion Series, Volume 28 **ISBN**: 978 1 861251 10 7. June 2000 384 pages 247 x 174 x 11mm.
11	FRANÇOIS WENGER, **LIDIA BENEA**, AND JACQUES GALLAND. **Corrosion of Steel in Reinforced Concrete Structure**. Annual Progress Report, Proceeding of the 2001 Workshop COST 521, Working Group B2,

	Tampere Finland, 17 – 20 June, **2001**, pp. 111-115.  **Editor: Jussi Mattila.** **Structural Engineering, Tampere University of Technology.** **ISBN: 952-15-0634-2**
12	**LIDIA BENEA**, GETA CARAC, FRANÇOIS WENGER, JACQUES GALLAND **Comparative corrosion studies of Zn-Fe alloy and Zn coating on steel for reinforcing structures.** p. 45-51. In volumul: **COST 521 CORROSION OF STEEL IN REINFORCED STRUCTURES**.  RW Consult, IST Luxembourg University of Applied Sciences. published at Final Workshop 18-19 February **2002**, Luxembourg, Final Reports of Single Projects 1997-2002, Working Group A2.
13	**L. Benea,** G. Carac, P. L. Bonora, F. Wenger, P. Ponthiaux and J Galland. **Nanostructured Composite Coatings and Marine Biocorrosion.** pp. 193-198. In cartea: **Study and Control of corrosion in the Perspective of Sustainable Development of Urban Distribution Grids.**  Constanţa – Romania, **iunie 2002.** **ISBN: 973-95041-3-2.**
14	FRANÇOIS WENGER, **LIDIA BENEA** AND JACQUES GALLAND **Use of electrochemical methods for the monitoring of steel corrosion in concret.** **p. 149-157.** In volumul: **COST 521 CORROSION OF STEEL IN REINFORCED STRUCTURES**.  RW Consult, IST Luxembourg University of Applied Sciences. Published at Final Workshop 18-19 February **2002**, Luxembourg, Final Reports of Single Projects 1997-2002, Working Group A2.

15	**L. BENEA**, P. L. BONORA, A. BORELLO, S. MARTELLI, G. MAURIN **Wear-corrosion behaviour of nano-structured SiC – nickel composite coatings.** Proceedings of 3rd Kurt Schwabe Corrosion Symposium, (KSCS 2000), Zakopane, Poland, August 30 – September 2, **2000,** p. 291-298.  Published by Institute of Physical Chemistry of the Polish Academy of Sciences. KSCS 2000.
16	**Lidia BENEA.** **Comparative Corrosion Study of Metal Coatings and Metal Matrix Composite Coatings.** pp. 990-1000. In cartea **PASSIVITY AND ITS BREAKDOWN**, Publicatie a *ECS – The Electrochemical Society.*  Editors: P.M. Natishan, H.S. Isaacs, M. Janik-Czachor, V.A. Macagno, P. Marcus, and M. Seo, PV 97-26, Paris, France – September **1997.** **ISBN 1-56677-179-X**.
19	**Lidia BENEA** şi Dumitru DIMA**;** **CHIMIE GENERALA – TEORIE SI APLICATII PRACTICE.**  Editura: ARS DOCENDI, Bucureşti, 1999.**;** 200 pages. ISBN 9736988406765.
20	**Lidia BENEA. Codepunerea particulelor ceramice de ZrO2 şi Sic în matrice de nichel (Codeposition of Ceramic Particles of ZrO2 and SiC in Nickel Matrix)**. pp. 183- 201. In cartea: Tehnologii , Calitate, Maşini, Materiale – **TEHNOLOLOGII NOVATIVE PREZENT ŞI PERSPECTIVE.**  **Editura Tehnică. Noiembrie 1997. 516 pagini.** **ISBN: 973-31-1139-2.** **ISBN: 973-31-1141-4**

21	**Lidia BENEA. Electrodepuneri compozite – Realizări, perspective (Composite Electrodeposition – Achevements and Perspectives.** **pp.107 -125.** In cartea: Tehnologii , Calitate, Maşini, Materiale – **ECOLOGIE – ACOPERIRI METALICE – COROZINE.**  **Editura Tehnică. Septembrie 1997. 360 pagini.** **ISBN: 973-31-1113-9**

--//--