

Publications of Anita Szabó (in English)

Book, chapter in book

1. Licskó, I., Melicz, Z. and **Szabó, A.** (2002) Chemical Pretreatment of Sewage - A Cost-Benefit Method for Upgrading of Existing and Constructing New Wastewater Treatment Plants, In: *H. Rubin, P. Nachtnebel, J. Fürst, U. Shamir (eds): Water Resources Quality - Preserving the Quality of our Water Resources*, Springer-Verlag Berlin Heidelberg New York, pp. 371-389. ISBN 3-540-43148-9
<http://www.springer.com/environment/environmental+management/book/978-3-540-43148-0>

Reviewed Article in Journal

2. Hauduc, H., Takács, I., Smith, S., **Szabó, A.**, Murthy, S., Daigger, G.T., Sperandio, M. (2015) A dynamic physicochemical model for chemical phosphorus removal, *Water Research*, Volume 73, pp. 157-170. ISSN: 0043-1354 (IF=5.323)
<http://www.sciencedirect.com/science/article/pii/S004313541500007X>
3. Smith, S., Takács, I., Murthy, S., Daigger, G. T., **Szabó, A.** (2008) Phosphate Complexation Model and Its Implications for Chemical Phosphorus Removal, *Water Environment Research*, Volume 80, Number 5, May 2008, pp. 428-438. ISSN: 1061-4303 (IF=0.966)
http://www.redorbit.com/news/science/1459704/phosphate_complexation_model_and_its_implications_for_chemical_phosphorus_removal/
4. **Szabó, A.**, Takács, I., Murthy, S., Daigger, G. T., Licskó, I. and Smith, S. (2008) Significance of Design and Operational Variables in Chemical Phosphorus Removal, *Water Environment Research*, Volume 80, Number 5, May 2008, pp. 407-416. ISSN: 1061-4303 (IF=0.966)
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5. **Szabó, A.**, Osztóics, A. and Szilágyi, F. (2001) Natural Wastewater Treatment Systems in Hungary, *Water Science and Technology*, Volume 44. No 11/12, pp. 331-338. ISBN 1 84339 407 3 (IF=0.605)
<http://www.iwaponline.com/wst/04411/wst044110331.htm>
6. Marczisák, V., Osztóics, A. and **Szabó, A.** (2000) Irrigation of Poplar Plantation, Agricultural Area and Constructed Wetlands in Hungary, *Sustainable Development International - Strategies and Technologies for Local-Global Agenda 21 Implementation* (UK), ICG Publishing Ltd, pp. 157-160. ISSN: 1466-4739
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Presentation in Conference Proceedings

7. Hauduc, H., Takács, I., Smith, S., **Szabó, A.**, Murthy, S., Daigger, G.T., Sperandio, M. (2014) A Dynamic Model for Physicochemical Phosphorus Removal: Validation & Integration in ASM2d, In: *Proceedings IWA World Water Congress & Exhibition*, Lisbon, Portugal, 22 – 26, September, 2014.
8. Hauduc, H., Takács, I., Smith, S., **Szabó, A.**, Murthy, S., Daigger, G.T., Sperandio, M. (2013) A Dynamic Physicochemical Model for Chemical Phosphorus Removal. *Proceedings of the Water Environment Federation, 2013 WEF/IWA Conference - Nutrient Removal and Recovery 2013: Trends in Resource Recovery and Use*, Vancouver, British Columbia, Canada, July 28 - 31, 2013, pp. 172-183.
9. Tóth, Zs., Fleit, E., Sándor, D., **Szabó, A.** (2012) Experimental studies on the biofilm growth and sediment accumulation within drinking water distribution networks, *Proceedings of the 6th IWA International Young Water Professionals Conference*, Budapest, Hungary 10-13, July 2012, CD ROM, Magyar Víziközmű Szövetség (Hungarian Water Utility Association), ISBN 978-963-87507-8-5

10. Zajzon, G., Sándor, D., Fleit, E., **Szabó, A.** (2012) Investigation of simultaneous nitrification and denitrification process using biofilm formed on intelligent hydrogel micro-carriers, *Proceedings of the 6th IWA International Young Water Professionals Conference*, Budapest, Hungary 10-13, July 2012, CD ROM, Magyar Víziközmű Szövetség (Hungarian Water Utility Association), ISBN 978-963-87507-8-5
11. Sándor, D., Zajzon, G., Fleit, E., **Szabó, A.** (2012) Comparison of nitrification process using biofilm formed on intelligent hydrogel microcarriers and the conventional activated sludge technology, *Proceedings of the 6th IWA International Young Water Professionals Conference*, Budapest, Hungary 10-13, July 2012, CD ROM, Magyar Víziközmű Szövetség (Hungarian Water Utility Association), ISBN 978-963-87507-8-5
12. Takács, I., Johnson, B.R., Smith, S., **Szabó, A.**, Murthy, S. (2011) Chemical P removal – from lab tests through model understanding to full-scale demonstration, *Proceedings of the 11th IWA Specialised Conference on Design, Operation and Economics of Large Wastewater Treatment Plants*, Budapest, Hungary September 4-8, 2011, CD ROM (ISBN 978-963-08-2207-7)
13. **Szabó, A.**, Fetter É., Sándor, D., Fleit, E. and Siklósi, T. (2010) Role of the YWPs in the implementation of the R&D strategy of urban water management in Hungary, *Conference Proceedings, 1st Austrian National Young Water Professionals Conference*, 9-11 June 2010, Wien, Austria, CD ROM
14. Smith, S., Gilmore, R. L., **Szabó, A.**, Takács, I., Murthy, S., Daigger, G. (2008) Chemically Mediated Phosphorus Removal to Low Levels: Analysis and Interpretation of Data, *Proceedings of the 81st Annual Water Environment Federation Technical Exhibition and Conference*, Chicago, Illinois, USA Oct. 18-22, 2008
15. **Szabó, A.** and Licskó, I. (2007) Cost Saving and Intensification of WWTPs by Chemical Pre-treatment, *Proceedings of the International Conference and Exhibition for Filtration and Separation Technology*, February 27 – March 1, 2007, Rhein-Main-Hallen Wisbaden, Germany, Volume I. pp. 426-433.
16. **Szabó, A.**, Takács, I., Licskó, I., Murthy, S. and Daigger, G. (2006) The importance of slow kinetic reactions in simultaneous chemical P removal, *Proceedings of the 79th Annual Technical Exhibition and Conference, WEFTEC 2006*, Dallas, Texas USA, October 21-25, 2006. Water Environment Foundation, pp. 4864-4872. CD-ROM, 387.pdf
<http://www.environmental-expert.com/Files%5C5306%5Carticles%5C12652%5C387.pdf>
17. **Szabó, A.** and Licskó, I. (2005) Optimum Phosphorus and Organic Matter Removal by Combining Different Types of Coagulants, *Proceedings of 1st IWA ASPIRE 2005 Conference & Exhibition, Singapore, 10-15 July 2005*, CD-ROM, 9D3.pdf
18. **Szabó, A.** and Licskó, I. (2005) Chemical Wastewater Treatment – A Cost Effective Method to Upgrade Overloaded WWTPs, *Proceedings of 1st IWA ASPIRE 2005 Conference & Exhibition, Singapore, 10-15 July 2005*, CD-ROM, 9A1.pdf
19. Licskó, I. and **Szabó, A.** (2005) Coagulation considerations – possible and real processes, *Proceedings of 1st IWA ASPIRE 2005 Conference & Exhibition, Singapore, 10-15 July 2005*, CD-ROM, 12B2.pdf
20. **Szabó, A.** and Licskó, I. (2005) Expected Efficiency of Chemical Wastewater Treatment – Case Studies in Hungary, *Proceedings of Environmental Science and Technology*, Vol. (I), William G. Lyon, Jihua J. Hong, Ramesh K. Reddy (Eds.), American Science Press, New Orleans, 2005. 153-159., ISBN: 0-9768853-4-4
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22. Osztóics, A., **Szabó, A.** and Szilágyi, F. (2003) Natural Sewage Treatment: Hungarian Experiences, *Wastewater 2003 - 5th International Biennial Conference and Exhibition, 13-15 May, 2003, Olomouc*, pp. 379-381.

23. László, B. and **Szabó, A.** (2002) Odour Problems and the Possible Technical Solutions at Wastewater Facilities in Hungary, *I. PhD. Civilexpo International Conference of Civil Engineering, November 21-22, 2002, Budapest, BUTE Department of Highway and Railway Engineering*, pp. 69-76 ISBN: 963-421-564-5
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25. Licskó, I. and **Szabó, A.** (2002) Odour components formation and their removal at WWTPs by chemical pre-treatment, *Proceedings of the 2nd Biennial Conference on Management of Wastewater, 15th-17th April 2002, Edinburgh, Scotland, Part 2.*, pp. 105-113., ISBN 1-903958-03-02
26. Licskó, I., Melicz, Z. and **Szabó, A.** (2001) Chemical Pre-treatment of Sewage - A Cost-effective Method for Upgrading WWTPs, *IWA 2nd World Water Congress: Efficient Water Management – Making it Happen, Berlin, 15-19 October 2001*, CD-ROM, Track 6, Poster B2009
27. Licskó, I., Melicz, Z. and **Szabó, A.** (2001) Chemical pre-treatment of sewage - A cost benefit method for upgrading of existing and constructing new STPs, *4th International Austrian-Israeli Technion Symposium cum Industrial Forum, „Technology for Peace – Science for Mankind”, Preserving the Quality of our Water Resources, 23-25 April 2001*, University of Agricultural Sciences, Vienna, Austria, pp. 265-271., ISBN-Nr. 3-9501023-1-0
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31. **Szabó, A.**, Fleit, E., Sándor, D. and Fetter É. (2010) Energy-efficiency and adaptation to climate change in the R&D strategy of urban water management in Hungary, *Abstracts, Global Change Research II. Conference: Environmental Crisis, Energy Issues and Global Regulation Policies, 11-16 June 2010, Porquerolles Island, France*
32. Takács, I., Murthy, S., **Szabó A.**, Smith, S., Licskó, I. and Daigger, G. (2008) Surface Complexation Mechanism and Engineering Implications in Chemical Phosphorus Removal, *Proceedings of the World Water Congress 2008, Vienna, 8-12 September 2008. Wastewater Treatment: P 315.*
33. Kiss, B., Bakos, V., **Szabó, A.** and Jobbágy, A. (2007) Comparative experimental studies for upgrading the Northpest Wastewater Treatment Plant, *Proceedings of 10th IWA Specialised Conference: Design, Operation and Economics of Large Wastewater Treatment Plants - Posters, 9-13 September 2007, Vienna, Austria*, pp. 177-180.