

J. John: Full list of publications

(as listed in the CTU database as of October 2013)

Full papers in peer-reviewed journals

1. John, J. - Distler, P. - Špendlíková, I. - Hudson, M.J. - Harwood, L.M. - et al.: Influence of diluent alkyl substitution on the extraction of Am(III) and Eu(III) by a 6,6'-bis(1,2,4-triazin-3-yl)-2,2'-bipyridine ligand dissolved in alkylated cyclohexanone diluents. *Radiochimica Acta*. 2012, vol. 2012 (10), no. 100, p. 747-752. ISSN 0033-8230.
2. Lewis, W. - Harwood, L.M. - Hudson, M.J. - John, J. - Distler, P. - et al.: Synthesis and evaluation of lipophilic BTBP ligands for An/Ln separation in nuclear waste treatment: The effect of alkyl substitution on extraction properties and implications for ligand design. *European Journal of Organic Chemistry*. 2012, vol. 2012, no. 8, p. 1509-1519. ISSN 1434-193X.
3. Harwood, L.M. - Lewis, F.W. - Hudson, M.J. - John, J. - Distler, P.: The Separation of Americium(III) from Europium(III) by Two New 6,6'-Bistriazinyl-2,2'-bipyridines in Different Diluents. *Solvent Extraction and Ion Exchange*. 2011, vol. 29, no. 4, p. 551-576. ISSN 0736-6299.
4. Čuba, V. - Němec, M. - Gbur, T. - John, J. - Pospíšil, M. - et al.: Radiation formation of colloidal silver particles in aqueous systems. *Applied Radiation and Isotopes*. 2010, vol. 68, no. 4-5, p. 676-678. ISSN 0969-8043.
5. Distler, P. - John, J.: Using of BTBP molecules for reprocessing of the spent nuclear fuel. *Chemické listy*. 2010, roč. 104, č. 6, s. 451. ISSN 0009-2770. (in Czech).
6. John, J. - Kučera, J.: Foreword. *Journal of Radioanalytical and Nuclear Chemistry*. 2010, vol. 286, no. 2, p. 299-301. ISSN 0236-5731.
7. Kužel, F. - Bělohávková, P. - Špendlíková, I. - John, J. - Šebesta, F.: Study of HDEHP-PAN Solid Extractants for the Determination of ⁹⁰Sr. *Journal of Radioanalytical and Nuclear Chemistry*. 2010, vol. 286, no. 3, p. 729-734. ISSN 0236-5731.
8. Šťastná, K. - Fiala, V. - John, J.: Preparation of Samples for Alpha-spectrometry by Direct Evaporation of Extracted Species. *Journal of Radioanalytical and Nuclear Chemistry*. 2010, vol. 286, no. 3, p. 735-739. ISSN 0236-5731.
9. Čubová, K. - John, J.: Nuclear Chemistry in Europe - From an informal association to an active division of EuCheMS. *Chemické listy*. 2009, roč. 103, č. 11, s. 847-849. ISSN 0009-2770. (in Czech).
10. Kroupa, J. - Lhoták, P. - Čuba, V. - John, J. - Rudzevich, V. - et al.: Radiation and chemical stability of calix[4]arene derivatives as prospective liquid-liquid extractants. *Radiochimica Acta*. 2009, vol. 97, no. 8, p. 429-435. ISSN 0033-8230.
11. Krmela, J. - Jevíková, J. - Čubová, K. - Vetešník, A. - Štamberg, K. - et al.: Complexation of europium ions by glycolic acid: A TRLFS study. *Chemické listy*. 2008, roč. 102, č. 8, s. 711. ISSN 0009-2770. (in Czech).
12. Semelová, M. - Čuba, V. - John, J. - Můčka, V.: Radiolysis of oxalic and citric acids using gamma rays and accelerated electrons. *Radiation Physics and Chemistry*. 2008, vol. 77, no. 7, p. 884-888. ISSN 0969-806X.

13. Špendlíková, I. - John, J. - Kroupa, J. - Lhoták, P. - Čuba, V.: Study of extraction properties of thiacalix[4]arenes. *Chemické listy*. 2008, roč. 108, č. 8, s. 715. ISSN 0009-2770. (in Czech).
14. Špendlíková, I. - John, J. - Kroupa, J. - Lhoták, P. - Čuba, V.: Study of extraction properties of thiacalix[4]arenes. *Chemické listy*. 2008, roč. 102, č. 8, s. 715-716. ISSN 0009-2770. (in Czech).
15. Štátná, K. - Němec, M. - John, J. - Kobliha, D.: Electrokinetic soil decontamination. *Chemické listy*. 2008, roč. 102, č. 8, s. 715. ISSN 0009-2770. (in Czech).
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17. Vetešník, A. - Semelová, M. - Štamberg, K. - Homzová, E. - John, J. - et al.: The study of uranium (VI) speciation in the sulphate media by TRLS method. *Chemické zvesti*. 2007, roč. 3, č. 1, s. 167. ISSN 1336-7242. (in Czech).
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21. Němec, M. - John, J. - Dostál, J. - Zapletal, P.: Soils Electroremediation. *Czechoslovak Journal of Physics*. 2006, vol. 56, no. 11, p. D629-D635. ISSN 0011-4626.
22. Pavlík, A. - Semelová, M. - John, J. - Černochová, K. - Šebesta, F.: Treatment of spent NTA-based decontamination solutions. *Czechoslovak Journal of Physics*. 2006, vol. 56, no. Suppl.D, p. D673-D680. ISSN 0011-4626.
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Chapters in books

1. John, J. - Šebesta, F. - Semelová, M. - Čuba, V. - Steinerová, J. - et al.: Separation of Radionuclides from Complex Waste Matrices. In New Developments and Improvements in Processing of 'Problematic' Radioactive Waste. Vienna: International Atomic Energy Agency, 2007, p. 134-167. ISBN 978-92-0-110707-7.
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3. John, J. - Šebesta, F. - Motl, A.: Application of New Inorganic-Organic Composite Absorbers with Polyacrylonitrile Binding Matrix for Separation of Radionuclides from Liquid Radioactive Wastes. In Chemical Separation Technologies and Related Methods of Nuclear Waste Management. Dordrecht: Kluwer Academic Publishers, 1999, p. 155-168. ISBN 0-7923-5638-1.

Full papers in conference proceedings

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2. Mareš, K. V. - John, J.: Verification of the possibility to decontaminate spent solvents issuing the DIAMEX processes. In Jaderná energetika, transmutační a vodíkové technologie v pracích mladé generace - 2011. Praha: Česká nukleární společnost, 2012, s. 67-71. ISBN 978-80-02-02360-9. (in Czech).
3. Mareš, K. V. - John, J. - Němec, M.: Verification and characterisation of XRF-analysis for the study of the possibility to decontaminate spent solvents issuing the DIAMEX and/or SANEX processes. In Přednášky semináře Radioanalytické metody IAA 11. Praha: Spektroskopická společnost Jana Marka Marci, 2012, s. 16-22. ISBN 978-80-904539-4-4. (in Czech).
4. Raindl, J. - Špendlíková, I. - Němec, M. - Šebesta, F. - Zavadilová, A. - et al.: Uranium separation and concentration from groundwaters using TiO-PAN sorbent and its determination with a TRLFS method. In Přednášky semináře Radioanalytické metody IAA 11. Praha: Spektroskopická společnost Jana Marka Marci, 2012, s. 33-37. ISBN 978-80-904539-4-4. (in Czech).
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8. Šťastná, K. - Němec, M. - John, J. - Kraus, L.: Electrokinetic Decontamination of Soils Polluted by Cobalt. In *Inovativní sanační technologie ve výzkumu a praxi II*. Chrudim: Ekomonitor, Vodní zdroje, 2009, díl 1, s. 88-91. ISBN 978-80-86832-45-6. (in Czech).
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11. Homzová, E. - Mizera, J. - Vetešník, A. - Semelová, M. - Beneš, P. - et al.: Speciation study of U(VI) using TRLFS method. In *13. Spektrometrická konference*. Praha: Spektroskopická společnost Jana Marka Marci, 2007, s. 96. ISBN 80-903732-2-4. (in Czech).
Němec, M. - Zapletal, P. - Dostál, J. - John, J.: Electrochemical soil decontamination - ¹³⁷Cs separation. In *Inovativní in-situ sanační technologie (chemické a biologické metody)*. Chrudim: Ekomonitor, Vodní zdroje, 2007, s. 82-87. ISBN 978-80-86832-28-9. (in Czech).
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13. Lučaníková, M. - Kučera, J. - Šebesta, F. - John, J.: Use of new composite materials for determination of Cu, As, Mo, Cd a Sb in biological samples by radiochemical neutron activation analysis. In *Souhrny přednášek semináře Radioanalytické metody IAA 05*. Prague: Institute of Chemical Technology, 2006, díl 1, s. 25-29. ISBN 80-7080-590-0. (in Slovak).
14. Šuláková, J. - John, J. - Hudson, M.J. - Foreman, M.R.S.: A Study of the Novel C5BTBP-PAN Solid Extractant for the Partitioning of Minor Actinides from High Level Waste. In *Plutonium Futures The Science 2006*. California in USA: An agency of the US Government and University of California in USA, 2006, p. 336-337.
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17. Lučaníková, J. - Kučera, J. - Šebesta, F. - John, J.: Elimination of Interfering Activities from Solid Phase Extractants in Radiochemical Neutron Activation Analysis of Biological and Environmental Samples. In *CTU Reports - Proceedings of Workshop 2005*. Prague: Czech Technical University, 2005, vol. B, p. 860-861. ISBN 80-01-03201-9.
18. Lučaníková, M. - Kučera, J. - Šebesta, F. - John, J.: Elimination of Interfering Activities from Solid Phase Extractants in Radiochemical Neutron Activation

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19. Němec, M. - John, J.: Decontamination of soils by chemical means. In Proceedings of Workshop 2005 - Part A,B. Prague: CTU, 2005, vol. B, p. 750-751. ISBN 80-01-03201-9.
 20. Němec, M. - John, J.: Decontamination of Soils by Electrochemical Means. In CTU Reports - Proceedings of Workshop 2005. Prague: Czech Technical University, 2005, vol. B, p. 860-861. ISBN 80-01-03201-9.
 21. Šuláková, J. - John, J. - Šebesta, F.: Comparison of Sorption Properties of Malonamide-based Solid Extractants with the Behaviour of their Active Components in Liquid-Liquid Extraction. In CTU Reports - Proceedings of Workshop 2005. Prague: Czech Technical University, 2005, vol. B, p. 860-861. ISBN 80-01-03201-9.
 22. John, J. - Čubová, K. - Šebesta, F. - Semelová, M.: New Options for Treatment of Organic Complexants Containing Liquid Radioactive Waste. In Advances in Nuclear and Radiochemistry. Jülich: Forschungszentrum Jülich GmbH, Institut für Nuklearchemie, 2004, p. 535-537. ISSN 0033-8230. ISBN 3-89336-362-9.
 23. Němec, M. - John, J.: Practical Exercises in LSC with Triathler. In LiquiScint 2004 - LSC in Radiochemistry and Environmental Sciences- CD-ROM Workshop proceedings. Praha: Czech Technical University in Prague, 2004, .
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 25. Davydov, D.Yu. - Davydov, Yu.P. - Toropov, I.G. - John, J. - Rosíková, K. - et al.: A Method for Regeneration of Spent Electrochemical Decontamination Solution and its Treatment for Final Disposal. In Proceedings of WM'03 - Waste Management 2003 Symposium. Tucson: WM Symposia, Inc, 2003, .
 26. John, J.: Nuclear chemistry at the CTU in Prague after the implementation of the structured study and formation of the CRRC. In *Minulosť a súčasné trendy jadrovej chémie*. Bratislava: Omega Info, 2006, s. 333-344. ISBN 978-80-969290-9-2. (in Czech).
 27. John, J.: Modernisation of the radiochemistry students laboratories. Prague: CTU, 2003. FRVS/1/2003. 12 s. (in Czech).
 28. Němec, M. - John, J. - Rezbárik, J. - Pražská, M.: Electrochemical Decontamination of Soils Debated by ¹³⁷Cs. In Proceedings of 6th International Symposium & Exhibition on Environmental Contamination in Central and Eastern Europe and the Commonwealth of Independent States. Tallahassee: Florida State University, Institute for International Cooperative Environmental Research, 2003, vol. 1, p. 413-417.
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