# Mikael Nilsson

List of Publications by Year
in descending order



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|---|---|---|---|
| 36 papers | 807 citations | 759055 12 h-index | 552653 26 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 813 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Review Article: A Review of the Development and Operational Characteristics of the TALSPEAK Process. Solvent Extraction and Ion Exchange, 2007, 25, 665-701. | 0.8 | 301 |
| 2 | Standard and advanced separation: PUREX processes for nuclear fuel reprocessing. , 2011, , 141-175. | | 67 |
| 3 | Transâ€Lanthanide Extraction Studies in the TALSPEAK System: Investigating the Effect of Acidity and Temperature. Solvent Extraction and Ion Exchange, 2009, 27, 354-377. | 0.8 | 64 |
| 4 | A SAXS Study of Aggregation in the Synergistic TBPâ€“HDBP Solvent Extraction System. Journal of Physical Chemistry B, 2013, 117, 5916-5924. | 1.2 | 54 |
| 5 | Computational Study of Molecular Structure and Self-Association of Tri-<i>n</i>-butyl Phosphates in <i>n</i>-Dodecane. Journal of Physical Chemistry B, 2015, 119, 1588-1597. | 1.2 | 38 |
| 6 | Structural study of complexes formed by acidic and neutral organophosphorus reagents. Dalton Transactions, 2017, 46, 1194-1206. | 1.6 | 26 |
| 7 | Introduction to the reprocessing and recycling of spent nuclear fuels. , 2015, , 3-25. | | 24 |
| 8 | The Radiation Chemistry of CMPO: Part 2. Alpha Radiolysis. Solvent Extraction and Ion Exchange, 2014, 32, 167-178. | 0.8 | 19 |
| 9 | Immunity of nanoscale magnetic tunnel junctions with perpendicular magnetic anisotropy to ionizing radiation. Scientific Reports, 2020, 10, 10220. | 1.6 | 19 |
| 10 | Synergistic Extraction of Dysprosium and Aggregate Formation in Solvent Extraction Systems Combining TBP and HDBP. Solvent Extraction and Ion Exchange, 2013, 31, 617-633. | 0.8 | 18 |
| 11 | Quantifying Dimer and Trimer Formation by Tri-<i>n</i>-butyl Phosphates in <i>n</i>-Dodecane: Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2016, 120, 6985-6994. | 1.2 | 15 |
| 12 | Quantum-dot doped polymeric scintillation material for radiation detection. Radiation Measurements, 2018, 111, 27-34. | 0.7 | 14 |
| 13 | Challenging conventional f-element separation chemistry â€“ reversing uranyl(<scp>vi</scp>)/lanthanide(<scp>iii</scp>) solvent extraction selectivity. Chemical Communications, 2014, 50, 8670. | 2.2 | 13 |
| 14 | Combinations of NIR, Raman spectroscopy and physicochemical measurements for improved monitoring of solvent extraction processes using hierarchical multivariate analysis models. Analytica Chimica Acta, 2018, 1006, 10-21. | 2.6 | 13 |
| 15 | Radiolysis of Tributyl Phosphate by Particles of High Linear Energy Transfer. Solvent Extraction and Ion Exchange, 2014, 32, 584-600. | 0.8 | 12 |
| 16 | A Comparison of Low and High LET (Linear Energy Transfer) Induced Radiolysis of Solvent Extraction Processes. Procedia Chemistry, 2012, 7, 334-340. | 0.7 | 9 |
| 17 | Water-soluble Schiff base-actinyl complexes and their effect on the solvent extraction of f-elements. Dalton Transactions, 2016, 45, 15415-15426. | 1.6 | 9 |
| 18 | Complexation of High-Valency Mid-Actinides by a Lipophilic Schiff Base Ligand: Synthesis, Structural Characterization, and Progress toward Selective Extraction. Inorganic Chemistry, 2019, 58, 3559-3563. | 1.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Studies of high linear energy transfer dosimetry by 10B(n,Î±)7Li reactions in aqueous and organic solvents. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 719-727. | 0.7 | 8 |
| 20 | Development of a method for high LET irradiation of liquid systems. Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 1401-1409. | 0.7 | 8 |
| 21 | Quantifying Dimer and Trimer Formation of Tri-n-butyl Phosphates in Different Alkane Diluents: FTIR Study. Journal of Physical Chemistry B, 2016, 120, 6976-6984. | 1.2 | 8 |
| 22 | Radiolytic Degradation of Uranyl-Loaded Tributyl Phosphate by High and Low LET Radiation. Solvent Extraction and Ion Exchange, 2019, 37, 38-52. | 0.8 | 8 |
| 23 | Rate theory on water exchange in aqueous uranyl ion. Chemical Physics Letters, 2017, 671, 58-62. | 1.2 | 7 |
| 24 | Production of high specific activity radiolanthanides for medical purposes using the UC Irvine TRIGA reactor. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1099-1103. | 0.7 | 6 |
| 25 | Activity Coefficients of di-(2-ethylhexyl) Phosphoric Acid in Select Diluents. Procedia Chemistry, 2012, 7, 209-214. | 0.7 | 5 |
| 26 | Coordination chemistry of lanthanides in a AOTâ€“CMPO solvent extraction system: UV-Vis and XAFS studies. Dalton Transactions, 2018, 47, 15424-15438. | 1.6 | 5 |
| 27 | Synergism and Aggregation in Multi-Extractant Solvent Extraction Systems. Solvent Extraction and Ion Exchange, 2019, 37, 269-283. | 0.8 | 5 |
| 28 | Determination of Activity Coefficients of di-(2-ethylhexyl) Phosphoric Acid Dimer in Select Organic Solvents Using Vapor Phase Osmometry. Solvent Extraction and Ion Exchange, 2013, 31, 550-563. | 0.8 | 4 |
| 29 | Experimental and Theoretical Studies of Actinide and Lanthanide Ion Transport Across Supported Liquid Membranes. Solvent Extraction and Ion Exchange, 2015, 33, 554-575. | 0.8 | 4 |
| 30 | Determining Stability Constants Using the AKUFVE Technique. Solvent Extraction and Ion Exchange, 2019, 37, 213-225. | 0.8 | 4 |
| 31 | Comparative study using ion exchange resins to separate and reduce NORM from oil and gas flowback wastewater. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 497-503. | 0.7 | 3 |
| 32 | Microscopic Behaviors of Tri-<i>n</i>-Butyl Phosphate, <i>n</i>-Dodecane, and Their Mixtures at Air/Liquid and Liquid/Liquid Interfaces: An AMBER Polarizable Force Field Study. Journal of Physical Chemistry B, 2019, 123, 655-665. | 1.2 | 3 |
| 33 | Molecular Dynamics Investigations of Dibutyl-phosphoric Acidâ€"Parameterization and Dimerization. Journal of Physical Chemistry B, 2018, 122, 12040-12048. | 1.2 | 2 |
| 34 | Fluorescence studies of metal complexes in synergistic extraction systems combining dibutyl phosphoric acid and tri-n-butyl phosphate. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1105-1109. | 0.7 | 1 |
| 35 | Accuracy, Repeatability, and Limitations for Determination of Chemical Activities from Vapor Pressure Osmometry. Analytical Chemistry, 2018, 90, 12761-12767. | 3.2 | 1 |
| 36 | Determinations of Dipole Moments for Liquidâ€“Liquid Extraction Reagents. Journal of Solution Chemistry, 2018, 47, 1214-1223. | 0.6 | 1 |