

Mark P. Jensen, Ph.D.

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EDUCATION

1994 Ph.D. Inorganic and Nuclear Chemistry, Florida State University, Tallahassee, FL
1989 B.S. Chemistry, Summa Cum Laude, Bethel College, Arden Hills, MN

POSITIONS

2015- Colorado School of Mines
Professor, Department of Chemistry and Geochemistry and
Nuclear Science and Engineering Program
2015- Grandey University Chair in Nuclear Science and Engineering
Argonne National Laboratory, Heavy Elements and Separation Science Group
2000-2014 Chemist
1995-2000 Assistant Chemist
1994-1995 Postdoctoral Research Associate

AWARDS AND FELLOWSHIPS

- R. G. Haire Lectureship in Actinide Science, Auburn University (2009)
- Bethel College Alumni Decade Award (1999)
- Florida State University Chemistry Department Top Dissertation Award (1994)
- University Fellow, Florida State University (1990-1993)
- College Teaching Fellow, Florida State University (1989-1990)
- Glenn T. Seaborg Nobel Travel Award (1989)
- DOE/ACS Nuclear Chemistry Summer School Fellow (1988)

RESEARCH INTERESTS

- Actinide chemistry and biochemistry in biological systems and the environment
 - Actinide-protein complexes
 - Mechanisms of cellular uptake of actinides
- Novel separations of *f*-elements
 - Biologically-based separations of actinide elements
 - Ligands for extremely difficult intra-actinide and intra-lanthanide separations
- Thermodynamics and kinetics of metal complexation and separation in aqueous and organic phases
 - Effects of structure, electronics, and solvation on metal ion selectivity
 - Metal ion speciation in non-aqueous systems
 - Focused on species important to nuclear fuel processing and reprocessing

PROFESSIONAL ACTIVITIES

Conferences and Symposia Organized

- Local Organizing and Program Committees, 34th Actinide Separations Conference (2010)
- Organizer, “Separations” Session, 24th Rare Earth Research Conference (2005)
- Chair, Glenn T. Seaborg Actinide Separations Award Committee (2004)
- Member, Advisory Board for the Actinide Separation Conferences (2004-2008)
- Program Co-chair, 27th Actinide Separations Conference, Argonne, IL (2003)
- Symposium Co-organizer at American Chemical Society National Meetings for
 - “From Nuclear Synthesis to Environmental Chemistry,” Spring Meeting, Orlando (2002)
 - “Separations in Nuclear Chemistry,” Spring Meeting, Anaheim (1999)
 - “Actinide Solution Chemistry,” Fall Meeting, Boston (1998)
- Poster session co-chair, 20th Actinide Separations Conference, Itasca, IL (1996)

Editorships, Workshop Panels, and Reviewing

- Associate Editor, *Solvent Extraction and Ion Exchange* (2002-present)
Lead editor for Choppin special issue (2013)
- Panelist and invited writer for DOE/OBES *Basic Research Needs for Advanced Nuclear Energy Systems* Workshop (2006)
- Proposal reviewer for DOE, NSF, EPSORC (U.K.), ACS, numerous DOE user facilities and internal National Lab funding.
- Reviewer for 18 different journals in the past 4 years, including *Journal of the American Chemical Society*, *Inorganic Chemistry*, *Analytical Chemistry*, *Chemical Reviews*, *European Journal of Inorganic Chemistry*, *Radiation Research*, *Chemical Research in Toxicology*, etc.

Professional Societies

- American Chemical Society and its Nuclear Chemistry and Technology Division (1989-present)
- Membership Committee, ACS Nuclear Chemistry and Technology Division (1998-2003)
Committee Chair (2000-2003)

Educational Outreach

- Doctoral Committee, Ben Tokhiem, Washington State University (2013-present)
- Doctoral Defense Committee, Anna-Gay Nelson, University of Notre Dame (2010)
- Doctoral Committee, Colt Heathman, Washington State University (2009-2013)
- Research Advisor and Doctoral Committee, Christina Leggett, University of California, Berkeley, Nuclear Engineering Department (2007-2012)
- Doctoral Defense Committee, Drew Gorman-Lewis, University of Notre Dame (2006)
- Panelist, “Engaging Students as Scientists,” Glenbrook South High School (2006)
- Lecturer Young Scientist Roundtable, Minneapolis, MN (October 2001 and October 2007)
- Mentor for High School District 207 Project Plus (Summer 1998)
- Supervisor of 16 undergraduate and graduate student research projects at Argonne since 1994 (24 papers coauthored with undergrad. or grad. students based on their work at Argonne)

INSTITUTIONAL SERVICE

- Argonne Building 200 Characterization Team (2014)
- Argonne Site-wide ALARA Committee (2011-2014)
- Chemical Sciences and Engineering Division (CSE) ALARA Coordinator (2011-2014)
- Mentor, Argonne Post-doc mentoring program (2011-2014)
- Chair, CSE Radiation Safety Committee (2008-2014)
- M-Wing Safety and Operations Committee (1997-2014)
Committee Chair (1998-2014)
- Argonne Radiation Protection Program Internal Assessment Committee (2011)
- Materials Design Laboratory, Building Pre-design Committee (2009)
- Separations Assistant Scientist Search Committee (2008)
- Heavy Element Chemistry Assistant Scientist Search Committee (2007)
- Argonne PBCS Directorate Strategic Planning Retreat (2003)
- Argonne Environmental Sciences Strategic Planning Committee (2002)
- Chemistry Division ESH Coordinating Committees (1998-2007)
- Chemistry Division ALARA Committee (1996-1998)

COMPLETE PUBLICATION LIST

Journal Publications (Current h-index: 25)

70. Aqueous Complexes for Efficient Size-based Separation of Americium from Curium
M. P. Jensen, R. Chiarizia, I. A. Shkrob, J. S. Ulicki, B. D. Spindler, D. J. Murphy, M. Hossain, A. Roca-Sabio, C. Platas-Iglesias, A. de Blas, T. Rodríguez-Blas
Inorganic Chemistry, 53, 6003-6012 (2014)
69. A protein engineered to selectively bind uranyl with femtomolar affinity
L. Zhou, M. Bosscher, C. Zhang, S. Özçubukçu, L. Zhang, W. Zhang, C. J. Li, J. Liu, **M. P. Jensen**, L. Lai, C. He
Nature Chemistry 6, 236-241 (2014) – Featured Paper
(News item in Feb. 3, 2014 *C & E News Science and Technology Concentrates*)
68. Ionic Liquid Based Separations of Trivalent Lanthanide and Actinide Ions
I. A. Shkrob, T. W. Marin, **M. P. Jensen**
Industrial and Engineering Chemistry 53, 3641-3653 (2014)
67. Studies of Size-Based Selectivity in Aqueous Ternary Complexes of Americium(III) or Lanthanide(III) Cations
C. J. Leggett and **M. P. Jensen**
Journal of Solution Chemistry 42, 2119-2136 (2013)
66. Complexation of Neptunium(V) with *Bacillus subtilis* Endospore Surfaces and their Exudates
D. Gorman-Lewis, **M. P. Jensen**, Z. R. Harrold, M. R. Hertel
Chemical Geology 341, 75-83 (2013)
65. Engineering Bacterial Two-Component System PmrA/PmrB to Sense Lanthanide Ions
H. Liang, X. Deng, M. Bosscher, Q. Ji, **M. P. Jensen**, C. He
Journal of the American Chemical Society 135, 2037-2039 (2013)
(Featured in Feb. 18, 2013 *C & E News Science and Technology Concentrates*)
64. Small-Angle Neutron Scattering Study of Organic-Phase Aggregation in the TALSPEAK Process
T. S. Grimes, **M. P. Jensen**, L. Debeer-Schmidt, K. Littrell, K. L. Nash
Journal of Physical Chemistry B 116, 13722-13730 (2012)
63. Submicron Hard X-ray Imaging of Synthetic Elements
M. P. Jensen, B. P. Aryal, D. Gorman-Lewis, T. Paunesku, B. Lai, S. Vogt, G. E. Woloschak
Analytica Chimica Acta 722, 21-28 (2012)
62. Nanocarriers Enhance Doxorubicin Uptake in Drug-Resistant Ovarian Cancer Cells
H. C. Arora, **M. P. Jensen**, Y. Yuan, A. Wu, S. Vogt, T. Paunesku, and G. E. Woloschak
Cancer Research 72, 769-778 (2012)
61. A Proteomic Approach to Identification of Plutonium Binding Proteins in Mammalian Cells
B. P. Aryal, T. Paunesku, G. E. Woloschak, C. He, **M. P. Jensen**
Journal of Proteomics 75, 1505-1514 (2012)

60. Anion Effects in the Extraction of Lanthanide 2-Thenoyltrifluoroacetone Complexes into an Ionic Liquid
M. P. Jensen, M. Borkowski, I. Laszak, J. V. Beitz, P. G. Rickert, M. L. Dietz
Separation Science and Technology 47, 233-243 (2012) – Invited Paper
59. An Iron-dependent and Transferrin-mediated Cellular Uptake Pathway for Plutonium
M. P. Jensen, D. Gorman-Lewis, B. Aryal, T. Paunesku, S. Vogt, P. G. Rickert, S. Seifert, B. Lai, G. E. Woloschak, L. Soderholm
Nature Chemical Biology 7, 560-565 (2011) – Featured Paper
(News item in *C&E News*, *Chemistry World*, *Research in Chemical Toxicology*, and newspapers, news sites, and blogs worldwide)
58. Plutonium Uptake and Distribution in Mammalian Cells: Molecular vs. Polymeric Plutonium
B. P. Aryal, D. Gorman-Lewis, T. Paunesku, R. E. Wilson, B. Lai, S. Vogt, G. E. Woloschak, **M. P. Jensen**
International Journal of Radiation Biology 87, 1023-1032 (2011)
57. Selective Recognition of Americium by Peptide-Based Reagents
S. Özçubukçu, K. Mandal, S. Wegner, **M. P. Jensen**, C. He
Inorganic Chemistry 50, 7937-7939 (2011)
56. Direct Determination of the Intracellular Oxidation State of Plutonium
D. Gorman-Lewis, B. P. Aryal, T. Paunesku, S. Vogt, B. Lai, G. E. Woloschak, **M. P. Jensen**
Inorganic Chemistry 50, 7591-7597 (2011)
55. Theoretical Analysis of Optical Spectra of Uranyl in Complexes
G. K. Liu and **M. P. Jensen**
Chemical Physics Letters, 499 178-181 (2010)
54. Do Aqueous Ternary Complexes Influence the TALSPEAK Process?
C. J. Leggett, G. Liu, **M. P. Jensen**
Solvent Extraction and Ion Exchange 28 313-334 (2010)
53. Engineering A Uranyl-Specific Binding Protein from NikR
S. V. Wegner, H. Boyaci, H. Chen, **M. P. Jensen**, C. He
Angewandte Chemie 48 2339-2341 (2009)
(News item in *Science*, German Public Radio, and science news sites and blogs worldwide)
52. FTIR Characterization of Amorphous Uranyl Silicates
D. Gorman-Lewis, S. Skanthakumar, **M. P. Jensen**, K. L. Nagy, L. Soderholm
Chemical Geology, 253 136-140 (2008)
51. SANS Study of Reverse Micelles Formed Upon Extraction of Inorganic Acids by TBP in *n*-Octane
R. Chiarizia, A. Briand, **M. P. Jensen**, P. Thiyagarajan
Solvent Extraction and Ion Exchange, 26, 333-359 (2008)
50. Characterizing Solution and Solid-phase Amorphous Uranyl Silicates
L. Soderholm, S. Skanthakumar, D. Gorman-Lewis, **M. P. Jensen**, K. L. Nagy
Geochimica et Cosmochimica Acta, 72, 140-150 (2008)

49. Reverse-micelle Formation in the Partitioning of Trivalent f-Element Cations by Biphasic Systems Containing a Tetraalkyldiglycolamide
M. P. Jensen, T. Yaita, R. Chiarizia
Langmuir, 23, 4765-4774 (2007)
48. Thermochemistry of the Extraction of Bismuth(III) with Bis(2-ethylhexyl)phosphoric and 2-Ethylhexyl-phenylphosphonic Acid
T. S. Hannel, E. O. Otu, **M. P. Jensen**
Solvent Extraction and Ion Exchange, 25, 241-256 (2007)
47. Enthalpies and Entropies of Proton and Cadmium Adsorption onto *Bacillus subtilis* Bacterial Cells From Calorimetric Measurements
D. Gorman-Lewis, J. B. Fein, **M. P. Jensen**
Geochimica et Cosmochimica Acta, 70, 4862-4873 (2006)
46. Metal Extraction by Sulfur-Containing Symmetrically-Substituted Bisphosphonic Acids. Part I. P,P'-Di(2-ethylhexyl)methylenebisphosphonic acid
P. R. Zalupski, R. Chiarizia, **M. P. Jensen**, A. W. Herlinger
Solvent Extraction and Ion Exchange, 24, 331-346 (2006)
45. Acid-Base and Organic-Water Distribution Equilibria for Symmetrically-Substituted P,P'-Dialkyl Alkalenebisphosphonic Acids
P. R. Zalupski, **M. P. Jensen**, R. Chiarizia, M. P. Chiarelli, A. W. Herlinger
Solvent Extraction and Ion Exchange, 24, 177-195 (2006)
44. Systematic Behavior of Charge-Transfer Transitions and Energy Level Variation in Soft Donor Complexes of the Trivalent Lanthanides
G. K. Liu, **M. P. Jensen**, P. M. Almond
Journal of Physical Chemistry A, 110, 2081-2088 (2006)
43. Experimental Study of Neptunyl Adsorption onto *Bacillus subtilis*
D. Gorman-Lewis, J. B. Fein, L. Soderholm, **M. P. Jensen**, M.-H. Chiang
Geochimica et Cosmochimica Acta, 69, 4837-4844 (2005)
42. Analysis of Energy Level Structure and Excited-State Dynamics in a Sm³⁺ Complex with Soft-Donor Ligands: Sm(Et₂Dtc)₃(bipy)
X. Y. Chen, **M. P. Jensen**, G. K. Liu
Journal of Physical Chemistry B 109, 13991-13999 (2005)
41. Investigation of Acid-Base Equilibria for Symmetrically Substituted P,P'-Dialkyl Partial Esters of Bisphosphonic Acids
P. R. Zalupski, **M. P. Jensen**, A. W. Herlinger
Journal of Solution Chemistry 34, 871-882 (2005)
40. Identical Extraction Behavior and Coordination of Trivalent or Hexavalent f-Element Cations using Ionic Liquid and Molecular Solvents
V. A. Cocalia, **M. P. Jensen**, J. D. Holbrey, S. K. Spear, D. C. Stepinski, R. D. Rogers
Dalton Transactions, 1966-1971 (2005)

39. Thermodynamic Study of the Complexation of Trivalent Actinide and Lanthanide Cations by ADPTZ, a Tridentate N-Donor Ligand
M. Miguirditchian, D. Guillaneux, D. Guillaumont, P. Moisy, C. Madic, **M. P. Jensen**, K. L. Nash
Inorganic Chemistry 44, 1404-1412 (2005)
38. Synergistic Effects in the Facilitated Transfer of Metal Ions into Room-Temperature Ionic Liquids
D. C. Stepinski, **M. P. Jensen**, J. A. Dzielawa, M. L. Dietz
Green Chemistry 7, 151-158 (2005) – Hot Article
37. Characterization of an Improved Extraction Chromatographic Material for the Separation and Preconcentration of Strontium from Acidic Media
M. L. Dietz, J. Yaeger, L. R. Sajdak Jr., **M. P. Jensen**
Separation Science and Technology 40, 349-366 (2005)
36. Extraction of Zirconium Nitrate by TBP in n-Octane: Influence of Cation Type on Third Phase Formation According to the 'Sticky Spheres' Model
R. Chiarizia, **M. P. Jensen**, P. G. Rickert, Z. Kolarik, M. Borkowski
Langmuir 20, 10798-10808 (2004) – Cover Article
35. Influence of Extractant Aggregation on the Extraction of Trivalent f-Element Cations by a Tetraalkyldiglycolamide
T. Yaita, A. W. Herlinger, P. Thiyagarajan, **M. P. Jensen**
Solvent Extraction and Ion Exchange 22, 553-571 (2004)
34. Interpretation of Third Phase Formation in the Th(IV)-HNO₃, TBP-n-Octane System with Baxter's "Sticky Spheres" Model
R. Chiarizia, **M. P. Jensen**, M. Borkowski, P. Thiyagarajan, K. C. Littrell
Solvent Extraction and Ion Exchange 22, 325-351 (2004)
33. EXAFS Investigations of Strontium Complexation by a Polymer-Supported Crown Ether
M. L. Dietz and **M. P. Jensen**
Talanta 62, 109-113 (2004)
32. Mechanisms of Metal Ion Transfer into Room-Temperature Ionic Liquids: The Role of Anion Exchange
M. P. Jensen, J. Neuefeind, J. V. Beitz, S. Skanthakumar, L. Soderholm
Journal of the American Chemical Society 125, 15466-15473 (2003)
31. Influence of Solvent Structural Variations on the Mechanism of Facilitated Ion Transfer into Room-Temperature Ionic Liquids
M. L. Dietz, J. A. Dzielawa, I. Laszak, B. A. Young, **M. P. Jensen**
Green Chemistry 5, 682-685 (2003) – Hot Article
30. Application of the Baxter Model for Hard-Spheres with Surface Adhesion to SANS Data for the U(VI)-HNO₃, TBP-n-Dodecane System
R. Chiarizia, K. L. Nash, **M. P. Jensen**, P. Thiyagarajan, K. C. Littrell
Langmuir 19, 9592-9599 (2003)

29. SANS Study of Third Phases Formation in the Th(IV)-HNO₃/TBP-*n*-Octane System
M. Borkowski, R. Chiarizia, **M. P. Jensen**, J. R. Ferraro, P. Thiyagarajan, K. C. Littrell
Separation Science and Technology 38, 3333-3351 (2003)
28. SANS Study of Third Phases Formation in the U(VI)-HNO₃/TBP-*n*-Dodecane System
R. Chiarizia, **M. P. Jensen**, M. Borkowski, J. R. Ferraro, P. Thiyagarajan, K. C. Littrell
Separation Science and Technology 38, 3313-3331 (2003)
27. Uranyl Coordination Environment in Hydrophobic Ionic Liquids: An in Situ Investigation
A. E. Visser, **M. P. Jensen**, I. Laszak, K. L. Nash, G. R. Choppin, R. D. Rogers
Inorganic Chemistry 42, 2197-2199 (2003)
26. Third Phase Formation Revisited: The U(VI), HNO₃-TBP, *n*-Dodecane System
R. Chiarizia, **M. P. Jensen**, M. Borkowski, J. R. Ferraro, P. Thiyagarajan, K. C. Littrell
Solvent Extraction and Ion Exchange 21, 1-27 (2003)
25. Actinides in Alkaline Media: Dissolution, Mineral Associations, and Speciation in Hanford Waste Tank Sludge Simulants
K. L. Nash, A. V. Guelis, **M. P. Jensen**, A. H. Bond, J. C. Sullivan, L. F. Rao, A. Garnov
Journal of Nuclear Science and Technology Suppl. 3, 512-515 (2002)
24. Actinide Complexes in Hydrometallurgical Separations: Observations on Complexation and Solvation
K. L. Nash, J. C. Sullivan, J. V. Muntean, R. Chiarizia, M. Borkowski, **M. P. Jensen**
Journal of Nuclear Science and Technology Suppl. 3, 240-245 (2002)
23. Solution Phase Coordination Chemistry of Trivalent Lanthanide and Actinide Cations with Bis(2,4,4-trimethylpentyl)dithiophosphinic Acid
M. P. Jensen, A. H. Bond, P. G. Rickert, K. L. Nash
Journal of Nuclear Science and Technology Suppl. 3, 255-258 (2002)
22. XAFS Study of Actinide Coordination Structure in Np(IV)-Fulvates
M. A. Denecke, C. M. Marquardt, J. Rothe, K. Dardenne, **M. P. Jensen**
Journal of Nuclear Science and Technology Suppl. 3, 410-413 (2002)
21. EXAFS Investigations of the Mechanism of Facilitated Ion Transfer into a Room-Temperature Ionic Liquid
M. P. Jensen, J. A. Dzielawa, P. Rickert, M. L. Dietz
Journal of the American Chemical Society 124, 10664-10665 (2002)
20. Comparison of Covalency in the Complexes of Trivalent Actinide and Lanthanide Cations
M. P. Jensen and A. H. Bond
Journal of the American Chemical Society 124, 9870-9877 (2002)
19. Influence of Aggregation on the Extraction of Trivalent Lanthanide and Actinide Cations by Purified Cyanex 272, Cyanex 301, and Cyanex 302
M. P. Jensen and A. H. Bond
Radiochimica Acta 90, 205-209 (2002)
18. Electrochemical and Spectrophotometric Investigations of Neptunium in Alkaline Media
A. V. Guelis, P. Vanysek, **M. P. Jensen**, K. L. Nash
Radiochimica Acta 89, 565-571 (2001)

17. Thermodynamics of Dioxoneptunium(V) Complexation by Dicarboxylic Acids
M. P. Jensen and K. L. Nash
Radiochimica Acta 89, 557-564 (2001)
16. Investigation of the Aggregation of the Neodymium Complexes of Dialkylphosphoric, -Oxothiophosphinic, and -Dithiophosphinic Acids in Toluene
M. P. Jensen, R. Chiarizia, V. Urban
Solvent Extraction and Ion Exchange 19, 865-884 (2001)
15. A Spectroscopic Study of the Hydrolysis, Colloid Formation and Solubility of Np(IV)
V. Neck, J.-I. Kim, B. S. Seidel, C. M. Marquardt, K. Dardenne, **M. P. Jensen**, W. Hauser
Radiochimica Acta 89, 439-446 (2001)
14. Plutonium Mobilization and Matrix Dissolution During Experimental Sludge Washing of Bismuth Phosphate, Redox, and PUREX Waste Simulants
A. H. Bond, K. L. Nash, A. V. Guelis, J. C. Sullivan, **M. P. Jensen**, L. F. Rao
Separation Science and Technology 36, 1241-1256 (2001)
13. Analytical-scale Separations of the Lanthanides: A Review of Techniques and Fundamentals
M. P. Jensen and K. L. Nash
Separation Science and Technology 36, 1257-1282 (2001)
12. Interactions of Np(V) and U(VI) with Dipicolinic Acid
J. I. Friese, K. L. Nash, **M. P. Jensen**, J. C. Sullivan
Radiochimica Acta 89, 35-41 (2001)
11. Thermodynamics and Hydration of the Europium Complexes of a Nitrogen Heterocycle Methane-1,1-diphosphonic Acid
M. P. Jensen, J. V. Beitz, R. D. Rogers, K. L. Nash
Journal of the Chemical Society, Dalton Transactions, 3058-3064 (2000)
10. Fundamental Investigations of Separations Science for Radioactive Materials
K. L. Nash, R. E. Barrans, R. Chiarizia, M. L. Dietz, **M. P. Jensen**, B. A. Moyer, P. V. Bonnesen, J. C. Bryan, R. A. Sachleben
Solvent Extraction and Ion Exchange 18, 605-631 (2000)
9. Aqueous Complexation of Trivalent Lanthanide and Actinide Cations by N,N,N',N'-Tetrakis(2-pyridylmethyl)ethylenediamine
M. P. Jensen, L. R. Morss, J. V. Beitz, D. D. Ensor
Journal of Alloys and Compounds 303/304, 137-141 (2000)
8. Kinetic Study of the Reactions of Np(V) and U(VI) with Oxydiacetic Acid
J. I. Friese, K. L. Nash, **M. P. Jensen**, J. C. Sullivan
Radiochimica Acta 83, 175-181 (1998)
7. Complexation of Uranyl(VI) by Aqueous Orthosilicic Acid
M. P. Jensen and G. R. Choppin
Radiochimica Acta 82, 83-88 (1998)

6. Actinide Immobilization in the Subsurface Environment by in-situ Treatment with a Hydrolytically Unstable Organophosphorus Complexant: Uranyl Uptake by Calcium Phytate
K. L. Nash, **M. P. Jensen**, M. A. Schmidt
Journal of Alloys and Compounds 271, 257-261 (1998)
5. Stability Constants of Europium Complexes with a Nitrogen Heterocycle Substituted Methane-1,1-diphosphonic acid
M. P. Jensen, P. G. Rickert, M. A. Schmidt, K. L. Nash
Journal of Alloys and Compounds 249, 86-90 (1997)
4. EXAFS Studies of Cesium Complexation by Dibenzo-crown Ethers in Tri-n-butyl-phosphate
M. R. Antonio, M. L. Dietz, **M. P. Jensen**, L. Soderholm, E. P. Horwitz
Inorganica Chimica Acta 255, 13-20 (1997)
3. Complexation of Europium(III) by Aqueous Orthosilicic Acid
M. P. Jensen and G. R. Choppin
Radiochimica Acta 72, 143-150 (1996)
2. Substituent Effects in the Extraction of Cesium from Acidic Nitrate Media with Macrocyclic Polyethers
M. L. Dietz, E. P. Horwitz, **M. P. Jensen**, S. R. Rhoads, R. A. Bartsch, A. Palka, J. Krzykawski, J. Nam
Solvent Extraction and Ion Exchange 14, 357-384 (1996)
1. Varied Oxygen Stoichiometry in $\text{RBa}_2\text{CuO}_{7-x}$
B. W. Veal, A. P. Paulikas, J. W. Downey, H. Claus, K. Vandervoort, G. Tomlins, H. Shi, **M. Jensen**, L. R. Morss
Physica C 162-164, 97-98 (1989)

Published in Refereed Conference Proceeding Volumes

21. Origins of *f*-Element Selectivity in Solvent Extraction
M. P. Jensen
Proceedings of the International Solvent Extraction Conference 2008 (ISEC2008). B. A. Moyer, Ed. Canadian Institute of Mining, Metallurgy and Petroleum: Montreal, 2008, pp. 1081-1086
20. Extractant Aggregation as a Mechanism of Metal Ion Selectivity
M. P. Jensen, T. Yaita, R. Chiarizia
Proceedings of the International Solvent Extraction Conference 2008 (ISEC2008).
B. A. Moyer, Ed. Canadian Institute of Mining, Metallurgy and Petroleum: Montreal, 2008, pp. 1029-1034
19. Partitioning of Transuranic Metal Ions to Ionic Liquids Containing the Ionizable Complexant Cyanex-272
V. Cocalia, J. D. Holbrey, S. K. Spear, **M. P. Jensen**, R. D. Rogers
Molten Salts XIV, Proceedings of the Fourteenth International Symposium on Molten Salts. P. C. Trulove, H. C. De long, R. A. Mantz, G. R. Stafford, M. Matsunaga, Eds. The Electrochemical Society: Pennington, NJ, 2006; Vol. PV 2004-24; pp 779-789

18. Kinetics and Mechanism of Actinide Complexation by Polydentate Ligands
K. L. Nash, J. C. Sullivan, **M. P. Jensen**, H. Hall, J. I. Friese
Recent Advances in Actinide Science. R. Alvarez, N. D. Bryan, I. May, Eds. RSC Publishing: Cambridge, 2006, pp. 662-664
17. Octacoordinate Soft Donor Complexes of Trivalent and Tetravalent Lanthanide and Actinide Cations
M. P. Jensen and P. M. Almond
Recent Advances in Actinide Science. R. Alvarez, N. D. Bryan, I. May, Eds. RSC Publishing: Cambridge, 2006, pp. 168-173
16. Application of Ionic Liquids in Actinide and Fission Product Separations: Progress and Prospects
D. C. Stepinski, B. A. Young, **M. P. Jensen**, P. G. Rickert, J. A. Dzielawa, A. A. Dilger, D. J. Rausch, M. L. Dietz
Separations for the Nuclear Fuel Cycle in the 21st Century. G. J. Lumetta, K. L. Nash, S. B. Clark, J. I. Friese, Eds. ACS Symposium Series, American Chemical Society: Washington D. C., 2006, Chapter 15, pp. 233-247
15. A New Interpretation of Third Phase Formation in the Solvent Extraction of Actinides by TBP
R. Chiarizia, **M. P. Jensen**, M. Borkowski, K. L. Nash
Separations for the Nuclear Fuel Cycle in the 21st Century. G. J. Lumetta, K. L. Nash, S. B. Clark, J. I. Friese, Eds. ACS Symposium Series, American Chemical Society: Washington D. C., 2006, Chapter 9, pp. 135-150
14. The Road to Partition: Mechanisms of Metal Ion Transfer into Ionic Liquids (ILs) and their Implications for the Application of ILs as Extraction Solvents
M. L. Dietz, J. A. Dzielawa, **M. P. Jensen**, J. V. Beitz, M. Borkowski
Ionic Liquids III. Fundamentals, Progress, Challenges, and Opportunities: Transformations and Processes. R. D. Rogers, K. R. Seddon, Eds. ACS Symposium Series 902, American Chemical Society: Washington, D. C., 2005, pp. 2-18
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