

248th ACS National Meeting, San Francisco
Presentations by Faculty & Students at the University of Tennessee, Knoxville

1. Sunday, August 10, 2014

Session Information: Chemistry of Materials (08:00 AM - 12:10 PM)

Session Time: 08:00 AM - 12:10 PM

Room: 2020

Location: Moscone Center, West Bldg.

Presentation Time: 09:40 AM

Publication Number: [56]

Title: Mesoporous hybrid inorganic-organic phosphosilicates by non-hydrolytic sol-gel reactions

Authors: Professor Jiri Pinkas, Mr. Ales Styskalik, Mr. David Skoda, Mr. Zdenek Moravec, Professor Craig E. Barnes

Session Information: Organometallic Chemistry (08:00 AM - 12:00 PM)

Session Time: 08:00 AM - 12:00 PM

Room: 2018

Location: Moscone Center, West Bldg.

Presentation Time: 10:40 AM

Publication Number: [71]

Title: Studies of the reaction between $(\text{Me}_3\text{CO})_3\text{W}(\text{CCMe}_3)$ and water

Authors: Tabitha M. Callaway, Stephen C. Gibson, Zi-Ling Xue

Session Information: Controlled Radical Polymerization (08:00 AM - 12:00 PM)

Session Time: 08:00 AM - 12:00 PM

Room: Continental Ballroom 4

Location: Hilton San Francisco Union Square

Presentation Time: 11:00 AM

Publication Number: [14]

Title: Synthesis and behavior of stimuli-responsive hairy particles

Authors: Bin Zhao

Session Information: General Topics: New Synthesis and Characterization of Polymers (01:00 PM - 05:20 PM)

Session Time: 01:00 PM - 05:20 PM

Room: Golden Gate 7

Location: Hilton San Francisco Union Square

Presentation Time: 01:20 PM

Publication Number: [69]

Title: Structure of poly(L-lactic acid) gel formed by complex crystals with solvents

Authors: Yasuhiro Matsuda, Akinobu Fukatsu, Kazuaki Miyamoto, Jimmy W Mays, Shigeru Tasaka

Presentation Time: 01:40 PM

Publication Number: [70]

Title: Selective CO₂ capture-release from flue gas at room temperature using novel PVDMA-based polymers

Authors: Balaka Barkakaty, Bradley S. Lokitz, Bobby Sumpter, David W. Uhrig, S. Michael Kilbey II

Session Information: Rare Earth Separation Chemistry (01:00 PM - 04:25 PM)

Session Time: 01:00 PM - 04:25 PM

Room: 110

Location: Moscone Center, North Bldg.

Presentation Time: 01:50 PM

Publication Number: [19]

Title: Theoretical studies of extracting agents for optimization of rare earth separations

Authors: Deborah A Penchoff, George K Schweitzer, Bruce E Bursten, Robert J Harrison

Session Information: Chemistry of Materials (06:00 PM - 08:00 PM)

Session Time: 06:00 PM - 08:00 PM

Room: Hall D

Location: Moscone Center, North Bldg.

Presentation Time: 06:00 PM

Publication Number: [200]

Title: Mesoporous metallosilicates prepared by nonhydrolytic acetamide elimination

Authors: Mr. David Skoda, Mr. Ales Styskalik, Mr. Zdenek Moravec, Professor Craig E. Barnes, Professor Jiri Pinkas

Presentation Time: 06:00 PM

Publication Number: [202]

Title: Porous aromatic organosilicates by non-hydrolytic sol-gel routes

Authors: Professor Jiri Pinkas, Mr. Martin Kejik, Mr. Zdenek Moravec, Professor Craig E. Barnes

2. Monday, August 11, 2014

Session Information: Chemistry of Materials (01:30 PM - 05:00 PM)

Session Time: 01:30 PM - 05:00 PM

Room: 2022

Location: Moscone Center, West Bldg.

Presentation Time: 02:30 PM

Publication Number: [440]

Title: Reticular synthesis of 1D MONTs and 2D MOFs utilizing double-hinged ligands

Authors: Christopher R. Murdock, Brianna C. Hughes, Abigail M. Booher, David M. Jenkins

Session Information: Poster Session (06:00 PM - 08:00 PM)

Session Time: 06:00 PM - 08:00 PM

Room: Exhibit Hall

Location: Moscone Center, West Bldg.

Presentation Time: 06:00 PM

Publication Number: [60]

Title: 2-[¹⁸F]Fluoropyridine-5-aldehyde-O-[6-(2,5-dioxo-2,5-dihydropyrrol-1-yl)-hexyl]oxime: A new thiol reactive prosthetic group for peptide labeling

Authors: Associate Professor Murthy R Akula, Student Lindsay B Boling, Postdoctoral Researcher David W Blevins, Professor George W Kabalka

Session Information: Sci-Mix (08:00 PM - 10:00 PM)

Session Time: 08:00 PM - 10:00 PM

Room: Hall D

Location: Moscone Center, North Bldg.

Presentation Time: 08:00 PM

Publication Number: [19]

Title: Theoretical studies of extracting agents for optimization of rare earth separations

Authors: Deborah A Penchoff, George K Schweitzer, Bruce E Bursten, Robert J Harrison

3. Tuesday, August 12, 2014

Session Information: General Topics: New Synthesis and Characterization of Polymers (08:00 AM - 12:20 PM)

Session Time: 08:00 AM - 12:20 PM

Room: Golden Gate 7

Location: Hilton San Francisco Union Square

Presentation Time: 10:40 AM

Publication Number: [235]

Title: Synthesis and characterization of new thermoplastic elastomers based on polybenzofulvene

Authors: Weiyu Wang, Tyler White, Andrew Goodwin, Xinyi Lu, Namgoo Kang, Jimmy Mays

Session Information: Quantum Chemistry (01:30 PM - 05:15 PM)

Session Time: 01:30 PM - 05:15 PM

Room: 2007

Location: Moscone Center, West Bldg.

Presentation Time: 02:00 PM

Publication Number: [198]

Title: Diffusion of hydrogen atoms through impurity-doped solid parahydrogen

Authors: Robert Hinde

Session Information: Transport in Polymer Membranes (01:30 PM - 05:15 PM)

Session Time: 01:30 PM - 05:15 PM

Room: Golden Gate 8

Location: Hilton San Francisco Union Square

Presentation Time: 02:30 PM

Publication Number: [292]

Title: Relationship between ionic transport and segmental relaxation in polymer electrolytes

Authors: Yangyang Wang, Fei Fan, Alexander Agapov, Tomonori Saito, Jun Yang, Xiang Yu, Kunlun Hong, Jimmy Mays, Alexei Sokolov

Presentation Time: 02:50 PM

Publication Number: [293]

Title: Decoupling of conductivity from segmental relaxation in polymerized ionic liquids

Authors: Fei Fan, Dr. Yangyang Wang, Dr. Tomonori Saito, Dr. Alexei Sokolov

Session Information: Poster Session (06:00 PM - 08:00 PM)

Session Time: 06:00 PM - 08:00 PM

Room: Golden Gate Section A/B

Location: San Francisco Marriott Marquis

Presentation Time: 06:00 PM

Publication Number: [355]

Title: Vibrational absorption intensities of HNO beyond the double-harmonic approximation

Authors: Robert Hinde, James Smith, Harkiran Dhah

Session Information: Joint PMSE/POLY Poster Session (06:00 PM - 08:00 PM)

Session Time: 06:00 PM - 08:00 PM

Room: Exhibit Hall

Location: Moscone Center, West Bldg.

Presentation Time: 06:00 PM

Publication Number: [471]

Title: Poly(N-isopropyl acrylamide) in mixed polymer brushes: Temperature-responsive behavior studied with in-situ infrared ellipsometry

Authors: Annika Kroning, Andreas Furchner, Michael Seeber, Igor Luzinov, Sergiy Minko, S. Michael Kilbey II, Bradley S. Lokitz, Karsten Hinrichs

Presentation Time: 06:00 PM

Publication Number: [494]

Title: 3D morphology of phase separated mixed poly(*tert*-butyl acrylate)/polystyrene brushes grafted on silica nanoparticles in selective polymer matrices

Authors: Saide Tang, Tara Fox, Jonathan M Horton, Chunhui Bao, Bin Zhao, Phoebe L Stewart, Lei Zhu

4. Wednesday, August 13, 2014

Session Information: Young Investigators in Nuclear and Radiochemistry (08:00 AM - 12:00 PM)

Session Time: 08:00 AM - 12:00 PM

Room: Pacific I

Location: San Francisco Marriott Marquis

Presentation Time: 09:25 AM

Publication Number: [105]

Title: Study of extraction selectivity for separations of uranium, neptunium, plutonium, and americium

Authors: Deborah A Penchoff, Karl J Bernstein, George K Schweitzer, Bruce E Bursten, Jon P Camden, David M Jenkins, Robert J Harrison

Session Information: Advances in In Situ and Operando Studies of Catalysts from Nano To Mesoscale (08:15 AM - 12:00 PM)

Session Time: 08:15 AM - 12:00 PM

Room: InterContinental Ballroom A

Location: InterContinental San Francisco

Presentation Time: 10:25 AM

Publication Number: [228]

Title: Inelastic neutron scattering studies of hydrogen spillover on metal oxide surfaces

Authors: John Z. Larese

Session Information: General Papers/New Concepts in Polymeric Materials (01:30 PM - 04:50 PM)

Session Time: 01:30 PM - 04:50 PM

Room: Golden Gate 5

Location: Hilton San Francisco Union Square

Presentation Time: 01:30 PM

Publication Number: [591]

Title: Mechanophore activation at hetero-interfaces

Authors: Jun Li, Tomohiro Shiraki, Bin Hu, Roger A.E. Wright, Bin Zhao, Jeffrey S. Moore

Session Information: Transport in Polymer Membranes (01:30 PM - 05:05 PM)

Session Time: 01:30 PM - 05:05 PM

Room: Golden Gate 8

Location: Hilton San Francisco Union Square

Presentation Time: 04:25 PM

Publication Number: [675]

Title: Precise control of structure and performance in conjugated polymer/fullerene organic photovoltaics with solvent annealing

Authors: Mark Dadmun, Huipeng Chen, Yu-Che Hsiao, Bin Hu

5. Thursday, August 14, 2014

Session Information: Transport in Polymer Membranes (08:30 AM - 12:00 PM)

Session Time: 08:30 AM - 12:00 PM

Room: Continental Parlor 8

Location: Hilton San Francisco Union Square

Presentation Time: 08:50 AM

Publication Number: [729]

Title: Development of passive polymer membranes for carbon dioxide separation

Authors: Zhenbin Niu, Shannon Mahurin, De-en Jiang, Brian Long, Jimmy Mays, Alexei Sokolov, Tomonori Saito

Session Information: Organometallic Chemistry (01:00 PM - 03:00 PM)

Session Time: 01:00 PM - 03:00 PM

Room: 3001

Location: Moscone Center, West Bldg.

Presentation Time: 01:40 PM

Publication Number: [1071]

Title: Isolation of a reactive square planar iron(II) complex supported by a macrocyclic dianionic tetracarbene ligand

Authors: Preeti P Chandrachud, Dr Heather M Bass, S A Cramer, Professor David M Jenkins
