

Steven Henry Szczepankiewicz

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EDUCATION

Ph.D., Physical Chemistry, California Institute of Technology, Pasadena, CA	2001
B.S., Chemistry, Canisius College, Buffalo, NY	1996

PROFESSIONAL APPOINTMENTS

Associate Professor of Chemistry at Canisius College
Member of the Canisius College Environmental Science Committee
Director of the Canisius College Summer Science Camp
Interim member of the Health Sciences Advisory and Recommendation Committee

PEER-REVIEWED PUBLICATIONS

- (1) Galan, B.R.; Kalbarczyk, K.P.; Szczepankiewicz, S.H.; Keister, J.B.; Diver, S.T. "A rapid and simple cleanup procedure for metathesis reactions" *Org. Lett.*, **2007**, 9, 1203-1206.
- (2) Dinan, F.J.; Szczepankiewicz, S.H.; Carnahan M.; Colvin M.T. "The Analysis of a Murder" *J. Chem. Ed.*, **2007**, 84, 617-618.
- (3) Colvin, M.T.; Kozik, M.; Szczepankiewicz, S.H. "Photochemical Reduction of Transition Metal Substituted Heteropoly Anions in Nonpolar Solutions" *J. Phys. Chem. B.* **2006**, 110, 10576-10580.
- (4) Moss J.A.; Szczepankiewicz, S.H.; Park, E.; Hoffmann, M.R. "Adsorption and Photodegradation of Dimethyl Methylphosphonate Vapor at TiO₂ Surfaces" *J. Phys. Chem. B.* **2005**, 109, 19779-19785.
- (5) Szczepankiewicz, S.H.; Moss J.A.; Hoffmann, M.R. "Electron Traps and The Stark Effect on Hydroxylated Titania Photocatalysts" *J. Phys. Chem. B.* **2002**, 106, 7654-7658.
- (6) Szczepankiewicz, S.H.; Moss J.A.; Hoffmann, M.R. "Slow Surface Charge Trapping Kinetics on Irradiated TiO₂" *J. Phys. Chem. B* **2002**, 106, 2922-2927.
- (7) Szczepankiewicz, S.H.; Colussi, A.J.; Hoffmann, M.R. "Infrared Spectra of Photoinduced Species on Hydroxylated Titania Surfaces" *J. Phys. Chem. B* **2000**, 104, 9842-9850.
- (8) Szczepankiewicz, S.H.; Ippolito, C.; Santora, B.; Van de Ven, T.; Ippolito, G.; Powers, T.; Fronckowiak, L.; Kozik, M. "Interaction of CO₂ with Heteropoly Complexes in Nonpolar Solvents" *Inorg. Chem.* **1998**, 37, 4344-4344.
- (9) Szczepankiewicz, S.H.; Bieron, J.F.; Kozik, M. "The Golden Penny Demonstration: An explanation of the Old Experiment and the Rational Design of the New and Simpler Demonstration." *J. Chem. Ed.* **1995**, 72, 386-388.

RESEARCH SUPPORT

0410257 Schaber PM (PI) 6/1/2005-5/31/2008
NSF

CCLI-Adaptation and Implementation Grant

Infrared, Raman, Fluorescence and Laser Based Spectrometry: Using Case Studies to Integrate Physical Chemistry Across the Curriculum

Role: Co-Investigator

Purpose of Project: To obtain a FT-IR/FT-RAMAN spectrometer and a Time of Flight Apparatus and develop projects related to the title goal.

Mariusz Kozik, Mary C. O'Sullivan, Steven H. Szczepankiewicz (Co-PI's) 5/1/2003-4/30-2006

Peter Canisius Distinguished Teaching Professors Program at Canisius College

Center of Excellence in Chemistry Teaching at Canisius College – Phase II

Role: Co-Principal Investigator

Purpose of Project: To integrate base and interdisciplinary topics into general and organic chemistry using material from professional exams in peer-led workshops.

0126165 Schaber PM (PI) 6/1/2002-5/31/2004
NSF

CCLI-Adaptation and Implementation Grant

Food, Hair, Beverages and Water; Analytical Biochemistry Across the Curriculum. A Case Study Approach

Role: Co-Investigator

Purpose of Project: To obtain a capillary electrophoresis system and a supercritical fluid extraction system and develop projects related to the title goal.

SU-01-018 Szczepankiewicz, Steven (PI) 9/1/2001-8/31/2006
Dreyfus Foundation

Zero-current electrode sensors selective for neutral analytes with an imprinted polymer recognition element

Role: Principal Investigator

Purpose of Project: This is an unrestricted grant to provide funding for new faculty members at non-Ph.D.-granting institutions at the start of their research and teaching activities.

RECENT PRESENTATIONS

- (1) Szczepankiewicz, S.H. and Sheridan, P. "Science Camp as a Summer Practicum for Teachers in Differentiated Instruction" Presented at AGATE Conference 2008 Oct. 24th, Canisius College, Buffalo, NY.
- (2) Szczepankiewicz S.H., Henry J., Broomell B., Campos V., Markarian W., Herdlein K., "Summer Practicum in Gifted Education – A Collaboration Journey" Presented at AGATE Conference Oct . 2007., Siena College, Loudonville, NY.
- (3) Szczepankiewicz S.H., Kozik M.M., Colvin M.T., Coughlin K., Rinaldi A., Tyler B.T., Dobmeier T.J., Arcadi J. "Transition metal substituted heteropoly tungstates as reduction catalysts in nonpolar environments" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 234: INOR 905 AUG 23, 2007.
- (4) Tyler B.T., Dobmeier T.J., Szczepankiewicz S.H., "Investigating the absolute charge of transition metal substituted heteropoly tungstates" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 233: CHED 327 MAR 26, 2007.
- (5) Dobmeier T.J., Tyler B.T., Szczepankiewicz S.H., "Product analysis of photocatalysis with transition metal substituted heteropoly tungstates in nonpolar solvents" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 233: CHED 354 MAR 26, 2007.
- (6) Szczepankiewicz S.H. "Illuminating Catalysis" *Canisius College Arts and Sciences Colloquium Series*, April 27, 2006.
- (7) Szczepankiewicz S.H. "Continuing teachers' certification with a middle school science camp" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 231: - 52-CHED, MAR 26 2006.
- (8) Colvin M.T., Szczepankiewicz S.H., Kozik M.M. "Surface photochemistry of heteropoly tungstates in nonpolar solvents" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 231: - 243-COLL, MAR 26 2006.
- (9) Szczepankiewicz S.H., Colvin M.T., Kozik M. "Nonaqueous photochemistry with transition metal substituted heteropoly tungstates" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 231: - 439-INOR MAR 26 2006.
- (10) Colvin M.T., Corso T.D., Szczepankiewicz S.H. "Manganese catalyzed mechanism of dopamine oxidation" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 229: U106-U106 105-ANYL Part 1 MAR 13 2005.
- (11) Dinan F.J., Szczepankiewicz S.H. "Laboratory based case studies" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 229: U378-U378 247-CHED Part 1 MAR 13 2005.
- (12) Szczepankiewicz S.H., Dinan F.J., Carnahan M. "The analysis of a murder: A case study in analytical chemistry" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 227: U675-U675 1178-CHED Part 1 MAR 28 2004.
- (13) Colvin M.T., Corso T.D., Szczepankiewicz S.H. "Manganese catalyzed oxidation of dopamine" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 227: U1522-U1522 755-INOR Part 1 MAR 28 2004.
- (14) Seifert K.E., Szczepankiewicz S.H., Hoffmann M.R. "Inhibition of radiolytic oxidation with TiO₂" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 225: U437-U437 768-CHED Part 1 MAR 2003.
- (15) Rose J.M., Seifert K.E., DeLuca J., Bitar A., Jenkins L.C., Szczepankiewicz S.H. "How to keep your SAACS chapter active, organized, and well-funded" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 225: U521-U521 1111-CHED Part 1 MAR 2003.
- (16) Wickham J.M., Schueckler J., Chouchani C., Muir A., Szczepankiewicz S.H. "Electrodes with imprinted polymer membranes" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 223: 074-ANYL Part 1 APR 7 2002.

- (17) Hoffmann M.R., Szczepankiewicz S.H., Moss J.A. "Slow surface charge trapping kinetics on irradiated titanium dioxide" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 223: 460-COLL Part 1* APR 7 2002.
- (18) Szczepankiewicz S.H., Colussi A.J., Hoffmann M.R. "Tracking surface photodynamics on hydrated titania powders using infrared spectroscopy" *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 220: 303-ENVR Part 1* AUG 20 2000.