

EXECUTIVE SUMMARY

Michael D. Kaminski
Senior Nuclear Chemical Engineer

October 2, 2020

Internationally recognized expert in nuclear chemistry and radiological and nuclear materials with a record of innovation in nuclear waste management, nuclear chemical separations, functionalized microporous and nanoporous materials, and radiological threat response and recovery.

- University of Illinois at Urbana-Champaign:
 - Ph.D., Nuclear Engineering with a Geochemistry Minor; 1998
 - M.S., Nuclear Engineering/Radioactive Waste Management; 1996
 - B.S., Nuclear Engineering, Cum Laude; 1994



MAJOR CONTRIBUTIONS/NOTABLE ACHIEVEMENTS:

Innovator: Applies broad range of capabilities to create unique technical solutions in chemical separations; materials for biomedical applications; and radioactive materials detection, decontamination, and recovery

- Pioneered the use of magnetic, polymeric microparticles for the separation and concentration of metals, producing highly cited papers in extraction of actinide, fission products, and heavy metals (1998-2012).
- Led a multi-institutional team to study magnetic, biodegradable polymers and the first descriptions of these for removal of toxins in vivo, which quickly established his worldwide expertise (2001-2012).
- First reported paragenesis and properties of radioactive colloids from the corrosion of aluminum-based fuels and uranium metal fuel exposed to ground water. First reported novel synthesis methods and heat transport characteristics for fission product and transuranic waste forms (2005-2016).
- Knowledge of nuclear fuel reprocessing schemes and functionalized surfaces led to the development of novel schemes for detection of nuclear-related species that do not rely on radioactive emission for detection, thereby avoiding the confounding problem of intense background radiation and prohibitive detection levels.
- Unique expertise in nuclear engineering, chemistry and geochemistry led to development of novel methods to effect the decontamination of the urban environment and his unique international program in urban radiological decontamination including development of unique materials, approaches and tools. Includes the Argonne Supergel (hydrogel decontaminant capable of removing radioactivity from porous building materials), IWATERS (decontamination process that uses common reagents and materials to wash down surfaces and simultaneously recycle the contaminated water), and Radiological Recovery Logistics Tool (RRLT) (computer program that helps organize and recommend equipment assets for an expedited recovery operation following a wide area release of nuclear contamination).

Thought Leader: In global research on radiological decontamination and recovery for urban settings

- Highly regarded by US EPA sponsors for his extensive technical expertise and numerous contributions to USG capabilities to prepare for and respond to radiological incidents including tools “to prioritize cleanup efforts, expedite recovery, and optimize resources,” and his ability to combine technical aptitude with to create practical approaches, guidelines and tools.
- Worldwide recognition in urban resiliency led to collaborations with Israeli, British, Canadian, Swiss, and Singaporean allies and as the subject-matter expert (SME) for DoD and DHS, resulting in an invitation to serve on the IAEA mission First Experts Meeting in Fukushima, Japan (2016).
- Hosted the first of its kind, International Workshop on the Use of Municipal and Commercial Equipment for Radiological Response and Recovery where SMEs from the U.S, the United Kingdom and Switzerland met to discuss the use of existing equipment reserves to compress the response timeline and recover from a radiological or nuclear contamination event in an urban environment (2016).
- Launched an initiative to establish an International Technical Working Group for CBRN Mitigation and Recovery. With co-founders from Switzerland and the United Kingdom, recruited 30 participants representing 13 countries since launch in Nov. 2019. Currently finalizing the first position paper and

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initial working group structure on this effort (2019).

Mentor: Influences and invests in the next generation of diverse scientists and engineers.

- Served as advisor for more than a dozen graduate students and post-doctoral appointees and mentored 20 undergraduate students. Current team consists of a Postdoctoral appointee, a Doctoral student and a Doctoral candidate at the University of Illinois (Dept. of Physics, and Dept. of Nuclear, Plasma, and Radiological Engineering), and two Argonne Associates. Includes diverse gender and ethnic minorities.
- Co-founder (2003), Past Vice President and long-standing President (since 2010) of the Argonne Hispanic/Latino Club (HLC) Employee Resource Group (ERG). Under his leadership, the HLC has grown to approximately 80 official members per year for almost ten years. Initiated program that established five Chicagoland Hispanic youths scholarship programs and distributed more than \$40,000 in scholarships.
- Speaks at Career Day events held at local grade, middle, and high schools and is initiating a program to help provide minority professionals to local schools to improve community outreach at the Laboratory.

Awards:

- Technical achievements awards include: Sun-Times Innovation Award; Council for Chemical Research Collaboration Award; Outstanding Technical Achievement Award (HENAAC -Hispanic Engineer National Achievement Conference); Hispanic Power Hitters in Technology and Business; and “40 under 40 in Science, Technology, Engineering and Mathematics”
- Argonne HLC (under Dr. Kaminski leadership) was the inaugural winner of the Argonne WIST Diversity Award in 2011.
- University of Chicago Board of Governors Pinnacle of Education Award in 2014.
- Nominated for The Richard S. Hodes, M.D. Honor Lecture Award, 2020 at Waste Management Symposia.

RESEARCH EXPERIENCE:

- Serves as Program Manager and Principal Investigator under the DOE Offices of Nuclear Energy and Environmental Management, DHS, Defense Threat Reduction Agency, Defense Advanced Research Projects Agency, the U.S. EPA, Center for Disease Control and Prevention, the U.S. Navy, as well as internally funded seed grants and projects funded by other DOE Laboratories.
- Funded by the US EPA for important work in nuclear and radiological response and recovery. Brought in \$24,900,000 of total funding to the Laboratory from his research leadership and innovation (\$15,901,000 for his research team alone) (2001-2020).
- Program manager and principal investigator for a multi-disciplinary team developing a Logistics Tool for DHS-FEMA that helps understand equipment options and allocate them for an expedited response and recovery following a wide area release of radioactive material. This highly regarded project recently received multi-year funding. (2018-)
- Holds an Adjunct Associate Professor position at the University of Illinois in the Department of Nuclear, Plasma, and Radiological Engineering; Fellow in the Argonne-University of Chicago Institute for Genomics and Systems Biology; and Laboratory Point of Contact for Water Sensors.

PATENT/PUBLICATIONS SUMMARY:

- U.S. Patents Issued (8); Inventions Disclosed (32); Publications (247) including journal articles (67), book chapters (3), reports (47), presentations (145), and magazine and news articles (12).
- Patent space: radiological surface decontamination, radiological response and recovery, materials for medical therapies.
- Over 2300 citations in niche areas of study (H-index = 26, i10 index=56) ranks above the average Full Professors at the top ranked U.S. university departments of Mechanical Engineering and Nuclear Engineering.

Evidence of Achievement

Dr. Kaminski's technical expertise includes areas of nuclear engineering, chemistry, geochemistry, nanoscience, and materials engineering. This broad knowledge set has allowed him to have successful research projects in nuclear waste management, nuclear chemical separations, functionalized microporous and nanoporous materials, and threat response and recovery. He has over 2314 citations in niche areas of study (h-index = 26, i10 index=56). He pioneered the use of magnetic, polymeric microparticles for the separation and concentration of metals, which produced a number of highly cited papers including ones describing actinide extraction (e.g., "Transuranic separation using organophosphorus extractants adsorbed onto superparamagnetic carriers"; cited 71 times), fission products (e.g., "Cesium separation from contaminated milk using magnetic particles containing crystalline silicotitanates"; cited 16 times), and heavy metals (e.g., "Extractant-coated magnetic particles for cobalt and nickel recovery from acidic solution"; cited 71 times). This work eventually led to the study of magnetic and non-magnetic biodegradable polymers and the first descriptions of biocompatible, magnetic particles for removal of blood-borne toxins in vivo, which quickly established his worldwide expertise in this area.

His work in magnetic particle research for medical applications led to a highly cited paper (cited 196 times) entitled 'Preparation and characterization of hydrophobic superparamagnetic magnetite gel' in the *Journal of Magnetism and Magnetic Materials* and a number of related associated papers (Nine of which have >50 citations). Concurrently, he studied the corrosion of nuclear fuels and first reported paragenesis and properties of radioactive colloids from the corrosion of aluminum-based fuels and uranium metal fuel exposed to ground water. Based on his waste form corrosion expertise, he was recruited into the advanced fuel cycle development programs. He was principal investigator for the DOE Office of Science and reported for the first time novel synthesis methods and heat transport characteristics for fission product and transuranic waste forms. His knowledge of the nuclear fuel reprocessing schemes and functionalized surfaces led him to develop novel schemes for detection of nuclear -related species that do not rely on radioactive emission for detection, thereby avoiding the confounding problem of intense background radiation and prohibitive detection levels. The miniaturized selective separation systems he developed earned funding from the defense department as they sought in-field detection systems for nuclear non-proliferation activities. Much of this work remains Official Use Only, which limited his publications in the open literature. He continues to study functionalized magnetic materials, microfluidics, and nanographene materials in pursuit of sensor platforms for various applications.

These same types of miniaturized systems are needed for the first responder community and advanced water treatment systems that are currently one of his areas of interest and opportunities for growth. Moreover, he has been able to take advantage of his unique expertise in nuclear chemistry and geochemistry to develop novel methods of selectively removing radionuclides from complex, heterogeneous materials to effect the decontamination of the urban environment. This has been an important development and he currently retains the only international program in urban radiological decontamination. As part of his unique perspective, he authored a critical review of all the accumulated data to date in order to highlight the fact that the international community and especially the United States is in a poor position to recover from a wide area urban contamination ("Wide-area decontamination in an urban environment after radiological dispersion: A review and perspectives," published in *J. Hazardous Materials* in 2016; cited 30 times). This work has led to worldwide recognition with the urban resiliency community as he has collaborated with our Israeli, British, Canadian, Swiss, and Singaporean allies and serves as the subject-matter expert for the Departments of Defense and Homeland Security and resulted in an invitation to serve on the First Experts Meeting as part of an IAEA mission to Fukushima, Japan. From his reputation in the field, he hosted First of its Kind Workshops -- International Workshops on the Use of Municipal and Commercial Equipment for Radiological Response and Recovery -- where subject matter experts from the U.S and the United Kingdom met to discuss the use of existing equipment reserves to compress the response timeline and recover from a radiological or nuclear contamination event in an urban environment. In addition, he has launched an initiative to establish an International Technical Working Group for CBRN Mitigation and Recovery. With support from the EGS Directorate program development funds and his co-founders from Switzerland and the United Kingdom, he has

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recruited more than twenty members from ten countries since its launch in Nov. 2019. He is currently finalizing their first position paper and initial working group structure.

Dr. Kaminski has been a champion of Diversity, Equity and Inclusion since he arrived. Dr. Kaminski is co-founder (2003), past Vice-President and long-standing President (since 2010) of the Argonne Hispanic/Latino Club (HLC) employee resource group. For almost 20 years, Dr. Kaminski helped direct the accomplishments of the organization in community outreach and the support of Hispanic youth in STEM. Under his leadership the HLC has grown to ~80 official members per year for almost ten years, more than any other employee resource group. When he took over leadership of this ERG, he formed five youth scholarship programs that have distributed more than \$40,000 in scholarships to the brightest Hispanic youths in the Chicagoland area. Argonne highlighted this work in a recent article about a female student who was one of the original HLC scholarship winners while in high school and Dr. Kaminski had hired her as a research aide this past year during her senior year in engineering at the University of Illinois (<https://www.anl.gov/article/argonne-organizations-scholarship-fund-blazes-stem-pathway>). Dr. Kaminski alone has advised at least twenty ethnic and gender minority students at the undergraduate and graduate level through 1) either summer internships or 2) to support their graduate research. He continues to speak at annual Career Day events held at local grade school, middle schools, and high schools and is initiating a new program at Argonne to help provide minority professionals to local schools to improve our community outreach at the Laboratory. For his many years of devoted service to education of minority groups, Dr. Kaminski and the Argonne HLC was recognized as the inaugural winner of the Argonne WIST Diversity Award (2011). Individually, Dr. Kaminski was recognized with the University of Chicago Board of Governors Pinnacle of Education Award (2014) for his devoted service.

Thus far, his research interests continue to be extremely important in growing research opportunities that include national security and water management. In total, he has 70 published journal articles, 47 reports, 137 presentations, 29 inventions, and 8 patents. He holds an Adjunct Associate Professor position at the University of Illinois in the Department of Nuclear, Plasma, and Radiological Engineering; is a Fellow in the Argonne-University of Chicago Institute for Genomics and Systems Biology; and Laboratory Point of Contact for Water Sensors.

I. PERSONAL HISTORY AND PROFESSIONAL EXPERIENCE

A. Education

1. University of Illinois at Urbana-Champaign; B.S., Nuclear Engineering, Cum Laude; 1994
2. University of Illinois at Urbana-Champaign; M.S., Nuclear Engineering/Radioactive Waste Management; 1996
3. University of Illinois at Urbana-Champaign; Ph.D., Nuclear Engineering/Geochemistry Minor; 1998

B. List of Academic Positions since Final Degree

1. 1998-2000, Postdoctoral Appointee, Chemical Technology Division, Argonne National Laboratory
2. 2011-present, Adjunct Associate Professor, Nuclear, Plasma, and Radiological Engineering, University of Illinois

C. Employment History

1. 2000-2003, Assistant Materials Engineer, Chemical Engineering Division, Argonne National Laboratory
2. June 2003-January 2006, Leader, Nanoscale Engineering Group, Chemical Engineering Division Argonne National Laboratory
3. 2003-November 2008, Materials Engineer, Chemical Engineering Division, Argonne National Laboratory

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4. November 2008-Aug 2011, Principal Materials Engineer, Nuclear Forensics and Nanoscale Engineering, Chemical Sciences and Engineering Division, Argonne
5. August 2011-June 2017, Section Head, Nuclear Decontamination and Separations, Nuclear Engineering Division, Argonne National Laboratory
6. August 2011-present, Leader, Nuclear Forensics and Nanoscale Engineering, Chemical Sciences and Engineering Division Argonne National Laboratory
7. January 2017-present, Acting Lead for Sensor Initiatives, Argonne National Laboratory
8. June 2017-May 2018, Principal Materials Engineer, Nuclear Security and Response, Nuclear Engineering Division, Argonne National Laboratory
9. May 2018-present, Principal Nuclear Chemical Engineer, Security Systems Analysis and Testing, Strategic Security Sciences Division, Argonne National Laboratory

D. Awards and Recognition

| Award Name | Citation | Date Awarded |
|--|--|--------------|
| INPO Scholar | University of Illinois at Urbana-Champaign | 1991-1994 |
| Honorable Mention, Radioactive Waste Management Scholarship | Department of Energy - Office of Civilian Radioactive Waste Management | 1993 |
| Laboratory Graduate Appointment | Argonne National Laboratory | 1995-1996 |
| SURGE Scholarship Award | University of Illinois at Urbana-Champaign | 1996-1998 |
| Illinois Minority Graduate Incentive Program Scholarship Award | University of Illinois at Urbana-Champaign | 1996-1998 |
| Nominated, National Young Hispanic Engineer | Society of Hispanic Professional Engineers (SHPE) | 2001 |
| Sun-Times Innovation Award | Chicago Innovation Awards by the Chicago Sun-Times and Kuczmariski & Associates | 2002 |
| Council for Chemical Research as the Collaboration Award Winner | AIChE | 2003 |
| Outstanding Technical Achievement Award | HENAAC (Hispanic Engineer National Achievement Awards Conference) | 2004 |
| Hispanic Power Hitters in Technology and Business | Hispanic Engineer & Information Technology magazine | 2005 |
| Named One of the "40 under 40 in Science, Technology, Engineering and Mathematics" | By the editors of Hispanic Engineer & Information Technology magazine (HE&IT, Baltimore, MD) | 2010 |
| WIST Diversity Award | Argonne National Laboratory | 2011 |
| Pinnacle of Education Award 2014 | Board of Governors for Argonne National Laboratory | 2014 |
| Delegate for the First Experts Meeting to the Ministry of Environment, Japan | International Atomic Energy Agency | 2016 |
| Advisory Board, Louis Stokes Midwest Regional Center of Excellence (LSMRCE) | | 2018-present |
| Nominated: The Richard S. Hodes, M.D. Honor Lecture Award, 2020 | Waste Management Symposia | NA |

E. Professional Activities

Membership in professional societies

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1. American Nuclear Society
2. Society for Hispanic Professional Engineers
3. Committee Member Test and Evaluation Capabilities and Methodologies Integrated Process Team (TECMIT) coordinated by NIST and its Decontamination Capability Area Process Action Team (CAPAT) to draft an operating procedure (TOP) used to characterize and determine the technical performance of a decontaminant for radiological or nuclear contaminations.

Committee memberships

1. Directors Diversity and Inclusion Advisory Committee member, Argonne National Laboratory, 2016-present
2. Nuclear Engineering Division, Diversity and Inclusion Committee member, Argonne National Laboratory, 2017-2018
3. Strategic Security Sciences Division, Diversity and Inclusion Committee member, Argonne National Laboratory, 2018-2019

Membership on editorial boards

1. Member, Editorial Board of the Journal of Biomedical Nanotechnology.
2. Co-Founder, Collaborative Investigators For Applied Nanotechnology In Medicine, 2004.

Manuscript reviewer for peer-reviewed journals and technical publications

- 1 Reviewer, Annals of Nuclear Energy
- 2 Reviewer, Applied Clay Science
- 3 Reviewer, Arabian Journal of Chemistry
- 4 Reviewer, Argonne LDRD
- 5 Reviewer, ASCE's Journal of Hazardous, Toxic, and Radioactive Waste
- 6 Reviewer, Biotechnology Progress
- 7 Reviewer, Colloids and Surfaces A: Physicochemical and Engineering Aspects
- 8 Reviewer, Defense Threat Reduction Agency Basic Science Programs
- 9 Reviewer, Environmental Science and Pollution Research
- 10 Reviewer, FY15 Consolidated Innovative Nuclear Research Funding Opportunity Announcement
- 11 Reviewer, International Journal of Pharmaceutics
- 12 Reviewer, Israeli Pazy Foundation established by the Israeli University Planning and Budgeting Committee (UPBC) and the Israeli Atomic Energy Commission (IAEC)
- 13 Reviewer, JACS
- 14 Reviewer, Journal of Controlled Release
- 15 Reviewer, Journal of Magnetism and Magnetic Materials
- 16 Reviewer, Journal of Polymer Research
- 17 Reviewer, Kentucky Science and Engineering Foundation Program
- 18 Reviewer, Langmuir
- 19 Reviewer, MMM Annual Conference Proceedings
- 20 Reviewer, NSERC (Natural Sciences and Engineering Research Council of Canada) Research Partnerships Program Industrial Research Chair Grant
- 21 Reviewer, Nuclear Energy University Program (NEUP) DOE
- 22 Reviewer, Pharmaceutics
- 23 Reviewer, Progress in Nuclear Energy
- 24 Reviewer, Radiation Research
- 25 Reviewer, Separation and Purification Technology
- 26 Reviewer, U.S. Environmental Protection Agency Office of Research and Development

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Adjunct or visiting professorships

1. 2011-present, Adjunct Associate Professor, Nuclear, Plasma, and Radiological Engineering, University of Illinois

Supervision of Graduate Students

a. M.S. Thesis Students

| Student Name | Year Graduated | Thesis Title | Placement |
|----------------------------|----------------|---|--|
| Carolina Fineman-Sotomayor | 2013 | Development of a separations procedure for plutonium and uranium utilizing branched diglycolamide resin | Department of Defense |
| Katherine C. Hepler | 2017 | Characterization of pressurized wash for decontamination of porous building materials and a Goldsim model for recycling contaminated wash | Post-Doctoral Appointee at Argonne National Laboratory |
| Major Keith Sanders | 2018 | Radiological decontamination in the urban environment utilizing an irreversible wash-aid recovery system | U.S. Air Force School of Aerospace Medicine |

b. Ph.D. Thesis Students

| Student Name | Year Graduated | Thesis Title | Placement |
|-------------------------|----------------|--|--|
| Jonas Moses | 2007 | Platelets, cytoplasts, and extracellular matrix in the bioengineering of a 3-dimensional, in vitro tumor model | CYSEC LLC |
| Haitao Chen | 2007 | High gradient magnetic separation for sequestration of magnetic carriers from arterial/venous blood flow | TopAlliance Biosciences, California |
| Yumei Xie | 2007 | Design of nano/microparticles for non-invasive magnetically guided thrombolysis | Pacific Northwest National Laboratory |
| Patricia Caviness | 2007 | Targeted drug delivery to the brain employing magnetically responsive nanoparticles | Unknown |
| Luis Humberto Ortega | 2009 | Sintered bentonite ceramics for the immobilization of cesium- and strontium-bearing radioactive waste | Associate Research Engineer at Texas A&M under Prof. Sean McDevitt |
| Katherine C. Hepler | 2020 | The Effects of Contaminant Aging and Decontamination Logistics on Remediation after a Radiological Dispersal Event | Post-Doctoral Appointee at Argonne National Laboratory |
| Nicolas Santiago | 2022 | Synthesis and characterization of fallout materials – {tentative} | Ph.D. candidate at the University of Illinois at Urbana-Champaign |
| Alvaro Pizarro Vallejos | 2022 | Heat transport modeling of spent fuel packages for heat signature evaluation {tentative} | Ph.D. student at the University of Illinois at Urbana-Champaign |

c. Post-doctoral Associates and Visiting Scientists

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| Name | Title (percent time) | Country of Origin | Permanent Employer | Years |
|---------------------|--|-------------------|---|-----------|
| Katherine C. Hepler | Post Doctoral Appointee at Argonne National Laboratory | USA | Argonne National Laboratory | 2020- |
| William Jolin | Post Doctoral Appointee at Argonne National Laboratory | USA | Savannah River Site | 2016-2018 |
| Alfredo Bobadilla | Post Doctoral Appointee at Argonne National Laboratory | Peru | Universidad Peruana de Ciencias Aplicados | 2014-2016 |
| Wailam Kwok | Visiting researcher at Argonne National Laboratory | USA | Rush-Copley Medical Center | 2005 |
| Christopher Bishop | Visiting researcher at Argonne National Laboratory | USA | U.S. Airforce | 2009 |

d. Prelim and Final Exams

| Doctoral Candidate | Prelim Exam Date | Final Exam Date | (Co-)Chair | (Co-)Director |
|-------------------------|------------------|-----------------|--------------------|---------------|
| Nicolas Santiago | 2020 | 2022 | Prof. M. Perdekamp | |
| Alvaro Pizarro Vallejos | 2020 | 2022 | Prof. Rizwan Uddin | |
| Katherine C. Hepler | 2018 | 2020 | Prof. K. Huff | |
| Humberto Luis Ortega | 2013 | 2014 | Prof. S. McDeavitt | |
| Jonas Moses | 2007 | 2008 | Prof. A. Maniotis | |

Supervision of Undergraduate Students

Supervised more than 20 undergraduate students as part of the Argonne summer research and co-op programs since 1999.

Other Contributions to Instructional Programs

1. Course development, Nuclear Fuel Reprocessing and Separations

F. Diversity and Inclusion (except committees)

1. Co-Founder, Argonne National Laboratory Hispanic/Latino Club Employee Resource Group, Argonne National Laboratory, 2000. We encourage diversity within the laboratory by helping organize social functions that bring together different ethnic groups and working classes to share experiences and celebrate diversity.
2. President, Argonne National Laboratory Hispanic/Latino Club Employee Resource Group, Argonne National Laboratory, 2011-present. Responsible for helping organize educational events at or with local grammar schools and high school in predominantly under-privileged communities. Responsible for developing network of outside contacts to promote the mission of the Club and maintaining scholarships activities
3. Vice President, Argonne National Laboratory Hispanic/Latino Club Employee Resource Group, Argonne National Laboratory, 2010.
4. Founding Member Committee at University of Illinois: Worked with the Graduate College at University of Illinois to initiate the formation of a Diversity Alumni Affiliate within the University of Illinois Alumni Association. Our mission to increase enrollment and graduation of traditionally under-represented minority groups in graduate programs.
5. Lecture at Argonne for Latino Health Science Enrichment Program (LaHSEP) offered by the Hispanic Center of Excellence in Medicine at the University of Illinois at Chicago summer program for high school students.

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6. Keynote speaker Illinois Louis Stokes Alliance for Minority Participation (ILSAMP) (2016).
7. Volunteered as lunchtime mentor for Science Careers in Search of Women Student Luncheon (2013-2018).
8. Member ROCKET21, organization that provides role models for youths who seek advice for their academic and professional careers.
9. Career days speaker to a number of grade schools, middle schools, junior highs, and high schools throughout Chicagoland (2002-present)
 - a. Conrady Jr. High (2002), Northridge Prep (2003), Lockport Rotary Club (2005, 2007), Columbus Elementary (2005, 2018), Science Café (2006), Oak Forest High (2003, 2004, 2011, 2013, 2014, 2015, 2017, 2018, 2019, 2020), MSSB Coaches Meeting (2009), Gallistel Elementary (2010, 2011, 2012), Kanoon Magnet (2012), Latino Health Science Enrichment Program (2013), Boys Leadership Conference (2014), United Neighborhood Organization Charter school (PFC Omar E. Torres, SPC Daniel Zizumbo, Octavio Paz, Soccer Academy, Sandra Cisneros, 2010; 2011, 2013, 2014), SACNAS Student Chapter at Northwestern Univ. (2014), Gower Middle School (2016), Richard Daley College (Physics, 2017, 2020), Illinois Institute of Technology SHPE (2018), Hillcrest High School (2019), Unity High (2019), St. Xavier University (2019), Abe Lincoln Elementary (2019), POSSE panel session (2019), Proviso East Career Expo (2019, 2020), Lockport Township High (2020), After School Matters (2020), Argonne STEM Chat (2020).
10. Lecture at Argonne for Latino Health Science Enrichment Program (LaHSEP) offered by the Hispanic Center of Excellence in Medicine at the University of Illinois at Chicago summer program for high school students.
11. Hosted ANS student section from the UIUC to tour Argonne facilities (2018).
12. Mentor-UIC Engineering email mentor program (2004).

Teaching classes in technical specialty at educational institutions a. Teaching

Teaches “Nuclear Fuel Reprocessing and Separations,” NPRE 498, 2011-present.

| Award Name | Citation | Date Awarded |
|--|------------------------|--------------|
| List of Teachers Ranked as Excellent by their Students | University of Illinois | Fall 2013 |
| List of Teachers Ranked as Excellent by their Students | University of Illinois | Fall 2014 |
| List of Teachers Ranked as Excellent by their Students | University of Illinois | Fall 2018 |
| List of Teachers Ranked as Excellent by their Students | University of Illinois | Fall 2019 |

G. Invited Lectures and Invited Conference Presentations

| Title | Conference | Location | Year |
|---|---|--|------|
| Biostabilized Magnetic Nanoparticles in Cancer Treatment | Chalk Talk | Ben May Cancer Institute, The University of Chicago, Chicago, IL | 2003 |
| Biohazard Detoxification Method Utilizing Magnetic Particles | Invited Seminar | Benedictine University, Lisle IL | 2004 |
| Biohazard Detoxification of Blood-Borne Toxins Using Magnetic Nanospheres | DARPA-University of New Orleans Symposium | Advanced Materials Research Institute, New Orleans, LA | 2004 |
| Biohazard Detoxification Using Magnetic Nano- and Microspheres | Invited Seminar | Walter Reed Army Institute of Research, Silver Springs, MD | 2004 |

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| Title | Conference | Location | Year |
|--|---|---|------|
| Biohazard Detoxification Using Magnetic Nano- and Microspheres | Invited Seminar | Armed Forces Radiobiology Research Institute, National Naval Medical Center, Bethesda, Maryland | 2004 |
| Magnetically Guided Drug Targeting and Detoxification Techniques | Scientific and Clinical Applications of Magnetically Targeted Drug Delivery Systems | Osaka University, Osaka, Japan | 2004 |
| The Design and Development of a Novel Platform Technology for Rapid, Efficient, and Portable Detoxification of Blood-Borne Toxins | Gordon Research Conference on Chemical and Biological Terrorism Defense | Buelton, CA | 2004 |
| Thermal Modeling of Engineered Product Storage Forms for High-Heat Radioactive Wastes: Waste Minimization under the Advanced Fuel Cycle Initiative | Department of Mechanical Engineering | University of Texas at Austin | 2004 |
| Selective Separation of Radionuclides Using Magnetic Microspheres | Invited Seminar | Sandia National Laboratories, Albuquerque, NM | 2005 |
| Recent Advances in the Use of Biodegradable Nano Spheres for Drug Delivery | Invited Seminar | Midwestern University | 2006 |
| From Diapers to Dirty Bombs | Keynote Speaker | Stephen Lawrowski Awards ceremony | 2007 |
| Options for Decay Storage and Disposal of Cesium and Strontium from GNEP Reprocessing Schemes | Invited Seminar | University of Nevada, Las Vegas, NV | 2007 |
| Future of Energy | Invited Speaker | Lockport Rotary Club, Lockport IL | |
| Design and Performance of a Superabsorbing Hydrogel for Decontaminating Porous Materials | US EPA Decontamination Research and Development Conference | Durham, NC | 2011 |
| Progress in the Development of a Rapid, Water-Based Technology for Removing Contamination Following an Urban Dispersal of Radioactivity | US EPA Decontamination Research and Development Conference | Durham, NC | 2011 |
| Advances in the Development of a Portable, Rapid Sensor for Actinides | Invited Seminar | Department of Chemistry, University of Wisconsin-Milwaukee | 2012 |

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| Title | Conference | Location | Year |
|--|--|--|------|
| Decontamination Technologies for Cesium and Other Notable Radionuclides | Invited Seminar | Joint Programs Office, Stafford, Virginia | 2012 |
| Radionuclide Decontamination in Urban and Rural Environments | Invited Seminar | University of Illinois, Department of Nuclear, Plasma, and Radiological Engineering, Urbana, IL | 2012 |
| Radiological Wash Aid and Collection System for Critical Infrastructures, Buildings, and Public Services | DHS-Wide Area Recovery and Resiliency Program | Denver, CO | 2012 |
| Wash Aid Program Overview and Its Implications on Wastewater Systems | Collaborative Workshop on Radionuclides in Waste Water Infrastructure Resulting from Emergency Situations | | 2012 |
| Improvised Nuclear Device (IND) Prompt Radiation Effects: Chicago | Undergraduate Seminar | University of Illinois, Department of Nuclear, Plasma, and Radiological Engineering, Urbana, IL | 2013 |
| Advances in the Development of a Portable, Rapid Sensor for Actinides | Invited Seminar | Department of Chemistry, University of Wisconsin-Milwaukee | 2014 |
| Gross Decontamination Methodologies | Invited Seminar | University of Illinois, Department of Nuclear, Plasma, and Radiological Engineering, Urbana, IL | 2014 |
| Radiological Decontamination Technologies | Radionuclide Dispersal Device Workshop, an international workshop hosted by Technical Support Working Group | CTTSO, McLean, VA | 2014 |
| Nuclear and Radiological Decontamination Strategies | Invited Seminar | Engineering Physics-Dept. Systems Engineering & Management, Air Force Institute of Technology, Wright Patterson Air Force Base, Dayton, Ohio | 2015 |
| Progress in the Detection and Decontamination of Materials Relevant to the Military | Invited Seminar | Test and Evaluation Capabilities and Methodologies Integrated Process Team (TECMIPT) | 2015 |
| Decontamination Data in Wide Area Remediation: A Brief History and Perspectives for Future Preparedness | First IAEA-MOE Experts Meeting on Environmental Remediation of Off-Site Areas after the Fukushima Daiichi Nuclear Power Station Accident | Tokyo, Japan | 2016 |

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| Title | Conference | Location | Year |
|--|------------------------------|--|------|
| Decontamination of the Urban Environment After a Radiological Release | Undergraduate Seminar Series | University of Illinois, Department of Nuclear, Plasma, and Radiological Engineering, Urbana, IL | 2016 |
| IWATERS for Mitigation of a Radiologically-Contaminated Urban Environment | Graduate Seminar Series | University of Illinois, Department of Nuclear, Plasma, and Radiological Engineering, Urbana, IL | 2016 |
| Decontamination R&D at Argonne | Invited lecture | University of Illinois, American Nuclear Society Student Chapter | 2019 |
| R&D Career at Argonne | Invited lecture | Chicago City of Colleges-Richard Daley | 2020 |
| Developing Guidance to Expedite an Urban Radiological recovery Effort and its Application to Military Assets | Invited Seminar | Engineering Physics-Dept. Systems Engineering & Management, Air Force Institute of Technology, Wright Patterson Air Force Base, Dayton, Ohio | 2020 |
| Equipment Assets for RN Mitigation, Response, and Recovery | Invited Seminar | Test and Evaluation Capabilities and Methodologies Integrated Process Team (TECMIPT) | 2020 |
| | | | |

H. Grants Received

| #PI's and lead PI if not this prof | Source of Funds | Years (Inclusive) | Total Funding | Funds Allocated to this prof | Brief Title or Description |
|------------------------------------|--|-------------------|---------------|------------------------------|---|
| 2, Richard Doctor | Environmental Management-DOE | 1998-1999 | \$1,500,000 | \$100,000 | Open gradient magnetic separation for nuclear waste |
| 2, Ankur Purohit | Laboratory Directed Research Funds - Argonne National Laboratory | 1998-1999 | \$300,000 | \$100,000 | Decontamination of ferrous metals |
| 1, Margaret Goldberg | Spent Nuclear Fuel Program-DOE | 1999-2001 | \$1,000,000 | \$300,000 | Uranium fuel corrosion |
| 1, Margaret Goldberg | Spent Nuclear Fuel Program-DOE | 2001-2002 | \$1,000,000 | \$300,000 | Aluminide nuclear fuel corrosion |
| 2, M. Kaminski | Kraft Foods | 2001-2002 | \$50,000 | \$50,000 | Selective separation in foods and packaging |
| 1, David Chamberlain | Defense Threat Reduction Agency-DOD | 2002-2003 | \$300,000 | \$50,000 | Radionuclide dispersal device attribution |

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| #PI's and lead PI if not this prof | Source of Funds | Years (Inclusive) | Total Funding | Funds Allocated to this prof | Brief Title or Description |
|------------------------------------|--|-------------------|---------------|------------------------------|--|
| 2, M. Kaminski | Laboratory Directed Research Funds - Argonne National Laboratory | 2002-2009 | \$955,000 | \$500,000 | Biostabilized polymeric drug carriers for medicine |
| 2, M. Kaminski | Defense Advanced Research Projects Agency -DOD | 2003-2007 | \$3,500,000 | \$1,750,000 | In vivo biotoxin sequestration using sterically-stabilized magnetic nanoparticles. |
| 1, M. Kaminski | Office of Nuclear Energy-DOE | 2003-2010 | \$750,000 | \$750,000 | Advanced fuel cycle waste form development |
| 3, M. Kaminski | Technical Support Working Group-DOD | 2003-2016 | \$2,072,000 | \$2,072,000 | Superabsorbing gel for nuclear decontamination of building materials |
| 4, M. Kaminski | Laboratory Directed Research Funds - Argonne National Laboratory | 2005-2006 | \$170,000 | \$100,000 | Uniform-sized biodegradable nanospheres for drug delivery |
| 1, M. Kaminski | Armed Forces Radiobiology Research Institute | 2007 | \$25,000 | \$25,000 | Magnetic nanospheres for sustained circulation |
| 1, M. Kaminski | Savannah River National Laboratory-DOE | 2007 | \$140,000 | \$140,000 | Thermal computational models for transuranic storage products |
| 2, M. Kaminski | Defense Threat Reduction Agency-DOD | 2007-2012 | \$4,110,000 | \$2,055,000 | Portable sensor for identification of radionuclide |
| 2, Ilya Shkrob | Laboratory Directed Research Funds - Argonne National Laboratory | 2008 | \$150,000 | \$30,000 | Improved mass spectrometry using functionalized magnetic particles |
| 1, David, Chamberlain | Defense Threat Reduction Agency-DOD | 2008-2009 | \$200,000 | \$85,000 | Uncertainty development for ICP-MS |
| 1, M. Kaminski | Center for Disease Control and Prevention | 2008-2015 | \$730,000 | \$730,000 | Selective separations of Sr from urine |
| 1, M. Kaminski | Office of Nuclear Energy-DOE | 2009-2010 | \$305,000 | \$305,000 | Model heat transport within lanthanide borosilicate glass |
| 2, Ilya Shkrob | Office of Nuclear Energy-DOE | 2010 | \$250,000 | \$100,000 | Novel waste forms for fission products |
| 1, M. Kaminski | | 2010 | \$200,000 | \$200,000 | Novel cermet waste forms |
| 1, David Chamberlain | Defense Threat Reduction Agency-DOD | 2011-2012 | \$300,000 | \$70,000 | Portable x-ray fluorescence spectroscopy |

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| #PI's and lead PI if not this prof | Source of Funds | Years (Inclusive) | Total Funding | Funds Allocated to this prof | Brief Title or Description |
|------------------------------------|--|-------------------|---------------|------------------------------|---|
| 1, M. Kaminski | Technical Support Working Group-DOD; U.S. Environmental Protection Agency; Department of Homeland Security-DHS | 2011-present | \$2,844,000 | \$2,844,000 | Rapid nuclear decontamination of critical infrastructure |
| 4, Giselle Sandi | Laboratory Directed Research Funds - Argonne National Laboratory | 2012-2015 | \$650,000 | \$350,000 | Graphene-based nuclear materials sensor |
| 1, M. Kaminski | U.S. Naval Air Command-DOD | 2012-present | \$475,000 | \$475,000 | Radioactive decontamination of high value military equipment and vehicles |
| 1, M. Kaminski | U.S. Environmental Protection Agency; Department of Homeland Security-DHS | 2016-2017 | \$310,000 | \$310,000 | Rapid response and recovery from a radiological contamination event |
| 1, M. Kaminski | U.S. Environmental Protection Agency | 2018-present | \$1,325,000 | \$1,325,000 | Rapid response and recovery from a radiological contamination event |
| 1, M. Kaminski | Department of Homeland Security-National Urban Security Technology Laboratory | 2018-present | \$1,082,000 | \$675,000 | Radiological recovery logistics tool development |
| 2. W. Jolin | Laboratory Direct Research and Development Funds | 2019 | \$180,000 | 80,000 | Surrogate fall out material development |
| 2. D. McLain | Laboratory SWIFT Research and Development Funds | 2020 | \$30,000 | \$30,000 | Fallout development and resuspension modeling |
| | | | | | |

II. PUBLICATIONS AND CREATIVE WORKS

A. Doctoral thesis title

Assessment of Gross Accumulation and Leaching Characteristics of Heavy Metals in a Contaminated Urban Soil

B. Chapters in Books (in print or accepted)

1. A.J. Rosengart, M.D. Kaminski, Decorporation of Biohazards Utilizing Nanoscale Magnetic Carrier Systems, Chapter 3.4, In C.S.S.R. Kumar, J. Hormes, and C. Leuschner (Eds) Nanofabrication Towards Biomedical Applications: Techniques, Tools, Applications, and Impact, John Wiley & Sons, pp. 343-363, (2005)
2. (*) H. Chen, M.D. Kaminski, X. Liu, P. Caviness Stepp, Y. Xie, A.J. Rosengart, Non-Invasive Magnetically Targeted tPA Delivery for Arterial Thrombolysis, Chapter 14, In N.T.K. Thanh (Eds) Magnetic Nanoparticles: From Fabrication to Clinical Applications, CRC Press/Taylor and Francis, pp. 369-386, (2012)

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- (*) M.D. Kaminski, H. Chen, X. Liu, D. Rempfer, A.J. Rosengart, Removal of Blood-Borne Toxin in the Body Using Magnetic Nanospheres, Chapter 7, In N.T.K. Thanh (Eds) *Magnetic Nanoparticles: From Fabrication to Clinical Applications*, CRC Press/Taylor and Francis, pp. 195-214, (2012)

C. Articles In Journals (in print or accepted)

- S. Landsberger, B.A. Buchholz, M.D. Kaminski, M. Plewa, Trace elements in municipal solid waste incinerator fly ash, *Journal of Radioanalytical and Nuclear Chemistry* Vol. 167, Is. 2, pp. 331-340 (1993)
- L. Nuñez, B.A. Buchholz, M.D. Kaminski, S.B. Aase, N.R. Brown, G.F. Vandegrift, Actinide separation of high-level waste using solvent extractants on magnetic microparticles, *Separation Science and Technology* Vol. 31, Is. 10, pp. 1393-1407, (1996)
- L. Nuñez, M.D. Kaminski, G.F. Vandegrift, Application of single-ion activity coefficients to determine the solvent extraction mechanism for components of high-level nuclear waste, *Separation Science and Technology*, Vol. 32, Is. 1-4, pp. 211-221, (1997)
- B.A. Buchholz, H.E. Tuazon, M.D. Kaminski, S.B. Aase, L. Nuñez, G.F. Vandegrift, Optimizing the coating process of organic actinide extractants on magnetically assisted chemical separation particles, *Separation and Purification Technology*, Vol. 11, Is. 3, pp. 211-219, (1997)
- M.D. Kaminski, S. Landsberger, L. Nuñez, G.F. Vandegrift, Sorption capacity of ferromagnetic microparticles coated with CMPO, *Separation Science and Technology*, Vol. 32, Is. 1-4, pp. 115-126, (1997)
- L. Nuñez, M.D. Kaminski, Magnetically assisted chemical separation process, *Filtration and Separation*, Vol. 35, Is. 4, pp. 349-352, (1998)
- L. Nuñez, M.D. Kaminski, Separating metals using coated magnetic particles, *Chemtech*, Vol. 28, Is. 9, pp. 41-46, (1998)
- M.D. Kaminski, L. Nuñez, A.E. Visser, Evaluation of extractant-coated ferromagnetic microparticles for the recovery of hazardous metals from waste solution, *Separation Science and Technology*, Vol. 34, Is. 6-7, pp. 1103-1120, (1999)
- M.D. Kaminski, L. Nuñez, Extractant-coated magnetic particles for cobalt and nickel recovery from acidic solutions, *Journal of Magnetism and Magnetic Materials*, Vol. 194, Is. 1-3, pp. 31-36, (1999)
- S. Landsberger, F. Iskander, M. Basunia, D. Barnes, M.D. Kaminski, Lead and copper contamination of soil from industrial activities and firing ranges, *Biological Trace Element Research*, Vol. 71-72, pp. 387-396, (1999)
- L. Nuñez, M.D. Kaminski, Transuranic separation Using organophosphorus extractants adsorbed onto superparamagnetic carriers, *Journal of Magnetism and Magnetic Materials*, Vol. 194, Is. 1-3, pp. 102-107, (1999)
- M.D. Kaminski, L. Nuñez, M. Pourfarzaneh, C. Negri, Cesium separation from contaminated milk using magnetic particles containing crystalline silicotitanates, *Separation and Purification Technology*, Vol. 21, Is. 1-2, pp. 1-8 (2000)
- M.D. Kaminski, S. Landsberger, Heavy metals in urban soils of East St. Louis, Illinois, Part I: Total concentration of heavy metals in soils, *Journal of the Air and Waste Management Association*, Vol. 50, Is. 9, 1667-1679 (2000)
- M.D. Kaminski, S. Landsberger, Heavy metals in urban soils of East St. Louis, Illinois, Part II: Leaching characteristics and modeling, *Journal of the Air and Waste Management Association*, Vol. 50, Is. 9, pp. 1680-1687, (2000)
- M.D. Kaminski, L. Nuñez, A. Purohit, M. Lewandowski, Metal surface decontamination using 1-hydroxyethane-1,1-diphosphonic acid, *Journal of Nuclear Technology*, Vol. 130, Is. 2, pp. 184-195, (2000)
- S. Landsberger, M.D. Kaminski, M. Basunia, F.Y. Iskander, Multielemental analysis of solid wastes and leachates, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 244, Is. 1, pp. 35-40, (2000)
- M.D. Kaminski, L. Nuñez, Separation of uranium from nitric- and hydrochloric-acid solutions with extractant-coated magnetic microparticles, *Separation Science and Technology*, Vol. 35, Is. 13, pp. 2003-2018, (2000)
- M.D. Kaminski, M.M. Goldberg, Aqueous corrosion of aluminum-based nuclear fuel, *Journal of Nuclear Materials*, Vol. 304, Is. 2-3, pp. 182-188, (2002)
- M.D. Kaminski, L. Nuñez, Cesium extraction from a novel chemical decontamination process solvent using magnetic microparticles, *Separation Science and Technology*, Vol. 37, Is. 16, pp. 3703-3714, (2002)

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20. H. Chen, A.D. Ebner, A.J. Rosengart, M.D. Kaminski, J.A. Ritter, Analysis of magnetic drug carrier particle capture by a magnetizable intravascular stent: 1. Parametric study with single wire correlation, *Journal of Magnetism and Magnetic Materials*, Vol. 284, Is. 1-3, pp. 181-194, (2004)
21. C.J. Mertz, M.D. Kaminski, Y. Xie, M.R. Finck, S. Guy, A.J. Rosengart, In vitro studies of functionalized Magnetic nanospheres for selective removal of a simulant biotoxin, *Journal of Magnetism and Magnetic Materials*, Vol. 293, Is. 1, pp. 572-577, (2004)
22. H. Chen, A.D. Ebner, M.D. Kaminski, A.J. Rosengart, J.A. Ritter, Analysis of magnetic drug carrier particle capture by a magnetizable intravascular stent—2. Parametric study with multi-wire two-dimensional model, *Journal of Magnetism and Magnetic Materials*, Vol. 293, Is. 1, pp. 616-632, (2005)
23. M.D. Kaminski, M.M. Goldberg, C.J. Mertz, Colloids from the aqueous corrosion of aluminum-based nuclear fuel, *Journal of Nuclear Materials*, Vol. 347, Is. 1-2, pp. 88-93, (2005)
24. M.D. Kaminski, N.M. Dimitrijevic, C.J. Mertz, M.M. Goldberg, heat from the aqueous corrosion of uranium nuclear fuel, *Journal of Nuclear Materials*, Vol. 347, Is. 1-2, pp. 77-87, (2005)
25. M.D. Kaminski, A.J. Rosengart, Detoxification of blood using injectable magnetic nanospheres: A conceptual technology description, *Journal of Magnetism and Magnetic Materials*, Vol. 293, Is.1, pp. 398-403, (2005)
26. M.D. Kaminski, Engineered product storage under the advanced fuel cycle initiative. Part I: An iterative thermal transport modeling scheme for high-heat-generating radioactive storage forms, *Journal of Nuclear Materials*, Vol. 347 Is. 1-2, pp. 94-103, (2005)
27. M.D. Kaminski, Engineered product storage under the advanced fuel cycle initiative. Part II: conceptual storage scenarios, *Journal of Nuclear Materials*, Vol. 347, Is. 1-2, pp. 104-110, (2005)
28. A.J. Rosengart, H. Chen, Y. Xie, M.D. Kaminski, Magnetically guided plasminogen activator-loaded designer spheres for acute stroke lysis, *Medical Hypotheses and Research*, Vol. 2, N. 3, pp. 413-424, (2005)
29. A.J. Rosengart, M.D. Kaminski, H. Chen, P.L. Caviness, A.D. Ebner, J.A. Ritter, Magnetizable implants and functionalized magnetic carriers: A novel approach for noninvasive yet targeted drug delivery, *Journal of Magnetism and Magnetic Materials*, Vol. 293, Is. 1, pp. 633-638, (2005)
30. Y. Xie, M.D. Kaminski, S.G. Guy, A.J. Rosengart, Plasminogen activator loaded magnetic nanocarriers for stroke therapy: A mass balance feasibility evaluation, *Journal of Biomedical Nanotechnology*, Vol. 1, N. 4, pp. 410-415, (2005)
31. M.O. Avilés, A.D. Ebner, H. Chen, A.J. Rosengart, M.D. Kaminski, J.A. Ritter, Theoretical analysis of a transdermal ferromagnetic implant for retention of magnetic drug carrier particles, *Journal of Magnetism and Magnetic Materials*, Vol. 293, Is. 1, pp. 605-615, (2005)
32. X. Liu, M.D. Kaminski, Y. Guan, H. Chen, H. Liu, A.J. Rosengart, Preparation and characterization of hydrophobic superparamagnetic magnetite gel, *Journal of Magnetism and Magnetic Materials*, Vol. 306, Is. 2, pp. 248-253, (2006)
33. X. Liu, M.D. Kaminski, J.S. Riffle, H. Chen, M. Torno, M.R. Finck, L. Taylor, A.J. Rosengart, Preparation and characterization of biodegradable magnetic carriers by single emulsion-solvent evaporation, *Journal of Magnetism and Magnetic Materials*, Vol. 311, Is. 2, pp. 248-253, (2007)
34. H. Chen, D. Bockenfeld, D. Rempfer, M.D. Kaminski, A.J. Rosengart, Three-dimensional modeling of a portable medical device for magnetic separation of particles from biological fluids, *Physics in Medicine and Biology*, Vol. 52, N. 17, pp. 5205-5218, (2007)
35. H. Chen, A.D. Ebner, D. Bockenfeld, J.A. Ritter, M.D. Kaminski, X. Liu, D. Rempfer, A.J. Rosengart, A comprehensive in vitro investigation of a portable magnetic separator device for human blood detoxification, *Physics in Medicine Biology*, Vol. 52, Is. 19, pp. 6053-6072, (2007)
36. H. Chen, M.D. Kaminski, X. Liu, C.J. Mertz, Y. Xie, M.D. Torno, A.J. Rosengart, S.G. Guy, A novel human detoxification system based on nanoscale bioengineering and magnetic separation techniques, *Medical Hypothesis*, Vol. 68, Is. 5, pp. 1071-1079, (2007)
37. M.O. Avilés, H. Chen, A.D. Ebner, A.J. Rosengart, M.D. Kaminski, J.A. Ritter, In vitro study of a ferromagnetic stent for implant assisted magnetic drug targeting, *Journal of Magnetism and Magnetic Materials*, Vol. 311, Is. 1, pp. 306-311, (2007)
38. H. Chen, M.D. Kaminski, L. Xianqiao, P. Caviness, M. Torno, A.J. Rosengart, Magnetic separation of microspheres from viscous biological fluids, *Physics in Medicine and Biology*, Vol. 52, Is. 4, pp. 1185-1196, (2007)

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39. Y. Xie, M.D. Kaminski, M.D. Torno, M.R. Finck, X. Liu, A.J. Rosengart, Physicochemical characteristics of magnetic microspheres containing tissue plasminogen activator, *Journal of Magnetism and Magnetic Materials*, Vol. 311, Is. 1, pp. 376–378, (2007)
40. X. Liu, M.D. Kaminski, A.J. Rosengart, Synthesis and characterization of highly-magnetic biodegradable poly(d,l-lactide-co-glycolide) nanospheres, *Journal of Controlled Release*, Vol. 119, Is. 1, pp. 52-58, (2007)
41. H. Chen, M.D. Kaminski, A.D. Ebner, J.A. Ritter, A.J. Rosengart, Theoretical analysis of a simple yet efficient portable magnetic separator design for separation of magnetic nano/micro-carriers from human blood flow, *Journal of Magnetism and Magnetic Materials*, Vol. 313, Is. 1, pp. 127-134, (2007)
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45. M.D. Kaminski, Y. Xie , C.J. Mertz, M.R. Finck, H. Chen, A.J. Rosengart, Encapsulation and release of plasminogen activator from biodegradable magnetic microcarriers, *European Journal of Pharmaceutical Science*, Vol. 35, Is. 2, pp. 96-103, (2008)
46. M.D. Torno, M.D. Kaminski, Y. Xie, R.E. Meyers, C.J. Mertz, X. Liu, W.D. O'Brien, A.J. Rosengart, Improvement of in vitro thrombolysis employing magnetically-guided microspheres, *Thrombosis Research*, Vol. 121, Is. 6, pp. 799-811, (2008)
47. M.S. Derzon, M.M. Hopkins, P.C. Galambos, K.E. Achyuthan, C.J. Bourdon, I. Brener, J. Cullor, C.D. James, M.D. Kaminski, J.L. McClain, V.M. Peck, D.W. Peterson, K. Rahimian, E.F. Spink, J.A. Timlin, C.S. Yun, G.V. Ludwig, Timely multi-threat biological, chemical, and nuclide detection: a platform, a metric, key results, *International Journal of Technology Transfer and Commercialization*, Vol. 7, Is. 4, pp. 413-435, (2008)
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50. L.H. Ortega, M.D. Kaminski, S.M. McDeavitt, Pollucite and feldspar formation in sintered bentonite for nuclear waste immobilization, *Applied Clay Science*, Vol. 50, Is. 4, pp. 594-499, (2010)
51. I.A. Shkrob, M.D. Kaminski, C.J. Mertz, P.G. Rickert, M.S. Derzon, K. Rahimian, Sequestration, fluorometric detection, and mass spectroscopy analysis of lanthanide ions using surface modified magnetic microspheres for microfluidic manipulation, *Journal of the American Chemical Society*, Vol. 131, Is. 43, pp. 15705–15710, (2010)
52. I.A. Shkrob, A.R. Tisch, T.W. Marin, J.V. Muntean, M.D. Kaminski, A.J. Kropf, Surface modified, collapsible controlled pore glass materials for sequestration and immobilization of trivalent metal ions, *Industrial and Engineering Chemistry Research*, Vol. 50, Is. 8, pp. 4686-4696, (2011)
53. C.A. Hawkins, I.A. Sckrob, C.J. Mertz, M.L. Dietz, M.D. Kaminski, Novel tandem column method for the rapid isolation of radiostrontium from human urine, *Analytical Chimica Acta*, Vol. 746, Is. 9, pp. 114-122, (2012)
54. C.J. Mertz, M.D. Kaminski, I.A. Shkrob, M. Kalensky, V.S. Sullivan, Y. Tsai, Development of field-based separations for the rapid identification of uranium and plutonium, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 305, Is. 1, pp. 199-205, (2015)
55. N. Kumar, G. Sandi, M.D. Kaminski, A. Bobadilla, C.J. Mertz, J.M. Seminario, Electron transport in graphene-based nanosensors for Eu(III) detection, *Journal of Physical Chemistry*, Vol. 119, Is. 21, pp. 12037-12046, (2015)
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57. M.A. Momen, M.D. Kaminski, M.L. Dietz, Sol-gel glass-encapsulated crown ethers for the separation and preconcentration of strontium from acidic media, *Separation Science and Technology*, Vol. 50, Is. 18, pp. 2873-2880, (2015)
58. M.D. Kaminski, S.D. Lee, M. Magnuson, Wide-area decontamination in an urban environment after radiological dispersion: A review and perspectives, *Journal of Hazardous Materials*, Vol. 305, pp. 67-86, (2015)
59. W.C. Jolin, M.D. Kaminski, Sorbent materials for rapid remediation of wash water during radiological event relief, *Chemosphere*, Vol. 162, pp. 165-171, (2016)
60. I. Yaar, R. Hakmon, I. Halevy, R. Bar-Ziv, N. Wienblat, Y. Iflach, M. Assulin, T. Avraham, M.D. Kaminski, T. Stilman, S. Serre, Evaluation of hydrogel technologies for the decontamination of ¹³⁷Cs from building material surfaces, *The ASME Journal of Nuclear Engineering and Radiation Science*, Vol. 3, Is. 3, (2017)
61. W.C. Jolin, C. Oster, M.D. Kaminski, Silicate coating to prevent leaching from radiolabeled surrogate far-field fallout in aqueous environments, *Chemosphere*, 222, 106-113 (2019)
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63. C. Oster, M.D. Kaminski, J. Jerden, Y. Franchini, M. Magnuson, Evaluating solid sorbents for recycling wash waters containing strontium and calcium, *Journal of Hazardous, Toxic, and Radioactive Waste*, Vol. 23, Is. 1, (2019)
64. W.C. Jolin, M. L. Magnuson, and M. D. Kaminski. "High pressure decontamination of building materials during radiological incident recovery." *Journal of environmental radioactivity* (2019): 105858.
65. Michael Kaminski, Christopher Oster, Nadia Kivenas, Susan Lopykinski, Matthew Magnuson, "Penetration of Fission Products Ions into Complex Solids and the Effect of Ionic Wash Methods," accepted to *Environmental Science and Pollution Research*, September 2020
66. Katherine Hepler, Michael D. Kaminski, William C. Jolin, Matthew Magnuson, "Waste Water Recycling During High Pressure Washing of Radioactive Cesium in Urban Remediation," accepted to *Environmental Technology and Innovation*, September 2020
67. Michael D. Kaminski, Keith Sanders, Matthew Magnuson, Katherine Hepler, Jeremy Slagley, "External Dose to Recovery Teams Following a Nuclear or Radiological Release Event," accepted to *Health Physics*, September 2020

D. Creative Works (Exhibitions, Commissions, Competitions, Performances, Designs, Art or Architecture Executed)

E. Patents

1. A. Purohit, L. Nuñez, M.D. Kaminski, Improved method for the decontamination of metallic surfaces, Patent Issued 6,504,077; 2003. Licensed to Applied Environmental Technologies (MI), 1999
2. M.D. Kaminski, M.R. Finck, C.J. Mertz, Composition suitable for decontaminating a porous surface contaminated with cesium, U.S. Patent 7,737,320; 2005. Licensed to Environmental Alternatives, Inc.
3. A.J. Rosengart, M.D. Kaminski, Magnetic particle-based therapy, U.S. Patent Application No. 20060025713, February 2, 2006
4. L. Nuñez, M.D. Kaminski, Foam and gel methods for the decontamination of metallic surfaces, U. S. Patent 7,166,758 B2, Issued 2007
5. M.D. Kaminski, C.J. Mertz, I.A. Shkrob, M.L. Dietz, C.A. Hawkins, Method and apparatus for extraction of strontium from urine, U.S. Patent 8,507,284; 2013
6. I.A. Shkrob, M.D. Kaminski, Method of detecting luminescent target ions with modified magnetic microspheres, U.S. Patent 8,722,415; 2014
7. M.D. Kaminski, C.J. Mertz, Superabsorbing gel for actinide and fission product decontamination, U.S. 2015/0038387 ANL-IN-11-123, U.S. Patent 8,658,580-B2
8. M.D. Kaminski, C. Mertz, Method for radionuclide contaminant mitigation, U.S. Patent 10,199,19; 2019

F. Bulletins, Reports, or Conference Proceedings (in print or accepted)

a. Reports

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1. L. Nuñez, B.A. Buchholz, M.D. Ziemer, G.R. Dyrkacz, M.D. Kaminski, G.F. Vandegrift, K.J. Atkins, F.M. Bos, G.R. Elder, C.A. Swift, Development program for magnetically assisted chemical separation: Evaluation of cesium removal from hanford tank supernatant, Argonne National Laboratory Chemistry Technology Division Report, ANL-94/47, December 1994
2. D.B. Chamberlain, S.E. Betts, J.C. Hutter, D.A. Johnson, M.D. Kaminski, S. Landsberger, R.A. Leonard, L. Nuñez, D.F. Wygmans, G.F. Vandegrift, Advanced evaporator technology progress report, FY 1992, Argonne National Laboratory Chemistry Technology Division Report, ANL-95/23, January 1995
3. L. Nuñez, M.D. Kaminski, C.R. Bradley, B.A. Buchholz, S. Landsberger, S.B. Aase, H.E. Tuazon, G.F. Vandegrift, Magnetically assisted chemical separation (MACS) process: Preparation and optimization of particles for removal of transuranic elements, Argonne National Laboratory Chemistry Technology Division Report, ANL-95/1, May 1995
4. L. Nuñez, R.E. Gerald II, E.S. Growney, M.D. Kaminski, S.E. Aumeier, Nondestructive NMR technique for moisture determination in radioactive materials progress report, Argonne National Laboratory Chemistry Technology Division Report, ANL-98/19, July 1998
5. M.D. Kaminski, L. Nuñez, A. Purohit, Development program for the decontamination of ferrous metal surfaces with HEDPA based solutions, Argonne National Laboratory Chemistry Technology Division Report, ANL/TD/TM99-01, July 1999
6. M.D. Kaminski, Batch tests with unirradiated uranium metal fuel program report, Argonne National Laboratory Chemistry Technology Division Report, ANL-01/33, February 2002
7. M.D. Kaminski, Aqueous corrosion of aluminum-based nuclear fuel, Argonne National Laboratory Chemical Engineering Division Report, ANL-CMT-03/1, April 2003
8. K. Vu, M.D. Kaminski, L. Nuñez, Review of arsenic removal technologies for contaminated groundwaters, Argonne National Laboratory Chemical Engineering Division Report, ANL-CMT-03/2, April 2003
9. M.D. Kaminski, M.M. Goldberg, Batch tests with irradiation uranium metal fuel, Argonne National Laboratory Chemical Engineering Division Report, ANL-CMT-03/3, July 2003
10. S. Patel, M.D. Kaminski, L. Nuñez, Polychlorodibenzo-p-dioxin and polychlorodibenzo-furan removal and destruction, Argonne National Laboratory Chemical Engineering Division Report, ANL-CMT-03/4, August 2003
11. B.B. Spencer, J.C. Cunnane, K.L. Howden, M.D. Kaminski, G.F. Kessinger, J.D. Law, Engineered product storage concepts: Cesium/strontium and americium/curium products, Advanced Fuel Cycle Initiative Engineered Product Storage Activity Team Report, June 2004
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