

# Quan "Jason" Cheng

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## A. Education

University of Florida, Ph.D., Analytical Chemistry, May 1995

Nanjing University, China, M.S., Chemistry, July 1989

Nanjing University, China, B.S., Chemistry, July 1986

## B. Professional Appointments

Professor, Department of Chemistry, University of California, Riverside, July 2010-

*Graduate Advisor:* Environmental Toxicology Program, July 2020-

*Cooperating Faculty,* Chemical and Environmental Engineering, UCR, July 2017-

*Guest Professor,* ETH Zurich, Switzerland, 2014

*Guest Professor,* EPFL Lausanne, Switzerland, 2014

Associate Professor, Department of Chemistry, UC Riverside, July 2007- June 2010

Assistant Professor, Department of Chemistry, UC Riverside, July 2001 - June 2007

Staff Scientist and Group Leader, Materials Sciences Division, Lawrence Berkeley National Laboratory (LBNL),  
June 1997-June 2001

Postdoctoral Fellow, Department of Chemistry, Univ. of California Berkeley, April 1995-May 1997

## C. Professional Services, Awards and Honors

Specialty Chief Editor, *Frontiers in Analytical Science (Frontiers)*

Editorial Board, *Journal of Analysis and Testing (Springer Nature)*

Eli Lilly Young Analytical Chemist Award/Grantee, 2002, 2003

Regents' Faculty Fellowship, University of California, 2004

Regents' Faculty Development Award, University of California, 2006

Chancellor's Award for Excellence in Undergraduate Research, UC Riverside, 2011

## D. Publications (130+ Peer-reviewed journal papers, some recent shown here)

1. Malinick AS, Stuart DD, Lambert AS, Cheng Q. "Surface plasmon resonance imaging (SPRi) in combination with machine learning for microarray analysis of multiple sclerosis biomarkers in whole serum", *Biosens. Bioelectron* **X**, **2022**, *10*, 100127.
2. Burris AJ, Cheng Q. "Plasmon-Enhanced Fluorescence in Electrospun Nanofibers of Polydiacetylenes Infused with Silver Nanoparticles", *Langmuir*, **2021**, *37*, 14920-14929.
3. Shanta PV, Li B, Stuart DD, Cheng Q. "Lipidomic Profiling of Algae with Microarray MALDI-MS toward Ecotoxicological Monitoring of Herbicide Exposure", *Environ. Sci. Technol.* **2021**, *55* (15), 10558-10568.
4. Malinick AS, Lambert AS, Stuart DD, Li B, Puente E, Cheng Q. "Detection of Multiple Sclerosis Biomarkers in Serum by Ganglioside Microarrays and Surface Plasmon Resonance Imaging", *ACS Sens.* **2020**, *5* (11), 3617-3626.
5. Lambert AS, Valiulis SN, Malinick AS, Tanabe I, Cheng Q. "Plasmonic Biosensing with Aluminum Thin Films under the Kretschmann Configuration", *Anal. Chem.* **2020**, *92*, 8654-8659.
6. Shanta PV, Li B, Stuart DD, Cheng Q. "Plasmonic Gold Templates Enhancing Single Cell Lipidomic Analysis of Microorganisms", *Anal. Chem.* **2020**, *92*, 6213-6217.
7. McKeating KS, Hinman SS, Rais NA, Zhou Z, Cheng Q. "Antifouling Lipid Membranes over Protein A for Orientation-Controlled Immunosensing in Undiluted Serum and Plasma", *ACS Sensors* **2019**, *4*, 1774-1782.
8. Shanta PV, Stuart DD, Cheng Q. "Graphene Oxide-Nanocarriers for Fluorescent Sensing of Calcium Ion Accumulation and Direct Assessment of Ion-Induced Enzymatic Activities in Cells", *ACS Appl. Nano Mater.* **2019**, *2*, 5594-5603.
9. Lambert AS, Valiulis SN, Cheng Q. "Advances in Optical Sensing and Bioanalysis Enabled by 3D Printing", *ACS Sens.* **2018**, *3*, 2475-2591.
10. Hinman SS, McKeating KS, Cheng Q. "Surface Plasmon Resonance: Material and Interface Design for Universal Accessibility". *Anal. Chem.*, **2018**, *90*, 19-39.
11. Shanta PV, Cheng Q. "Graphene Oxide Nanoprisms for Sensitive Detection of Environmentally Important Aromatic Compounds with SERS", *ACS Sens.* **2017**, *2*, 817-827.
12. Hinman SS, McKeating KS, Cheng Q. "DNA Linkers and Diluents for Ultrastable Gold Nanoparticle Bioconjugates in Multiplexed Assay Development", *Anal. Chem.*, **2017**, *89*, 4272-4279.