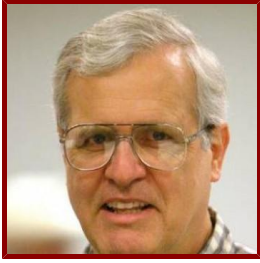


Stanford



Piero Pianetta

Professor (Research) of Photon Science and of Electrical Engineering
Photon Science Directorate

Bio

BIO

Pianetta's research is directed towards understanding how the atomic and electronic structure of semiconductor interfaces impacts device technology pertaining to advanced semiconductors and photocathodes. His research includes the development of new analytical tools for these studies based on the use of synchrotron radiation. These include the development of ultrasensitive methods to analyze trace impurities on the surface of silicon wafers at levels as low as $1e-6$ monolayer ($\sim 1e8$ atoms/cm²) and the use of various photoelectron spectroscopies (X-ray photoemission, NEXAFS, X-ray standing waves and photoelectron diffraction) to determine the bonding and atomic structure at the interface between silicon and different passivating layers. Recent projects include the development of high resolution (~ 30 nm) x-ray spectromicroscopy with applications to energy materials such as Li batteries.

ACADEMIC APPOINTMENTS

- Professor (Research), Photon Science Directorate
- Professor (Research), Electrical Engineering

ADMINISTRATIVE APPOINTMENTS

- Chair, Photon Science, SLAC, (2016-2020)
- Deputy Director for SSRL, SLAC, (2014- present)
- Director (Interim) for SSRL, SLAC, (2012-2014)
- Deputy Director for SSRL, SLAC, (2010-2012)
- Director (Acting) for SSRL, SLAC, (2009-2010)
- Deputy Director for SSRL, SLAC, (2005-2009)
- Assistant Director for SSRL, SLAC, (1993-2005)
- Associate Director, Stanford Synchrotron Radiation Laboratory, (1985-1993)

HONORS AND AWARDS

- Fellow, American Physical Society (2006)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Experimental Systems Advisory Committee, Advanced Photon Source, Argonne National Laboratory (2015 - present)
- Associate Editor, Journal of Synchrotron Radiation (2009 - present)

PROFESSIONAL EDUCATION

- PhD, Stanford University , Applied Physics (1977)

- MS, Stanford University , Applied Physics (1973)
- BS, Santa Clara University , Physics (1971)

PATENTS

- L. Hesselink, R.F.W. Pease, P. Pianetta, J.R. Maldonado, ^, Cheng, J. Ryan. "United States Patent 9,520,260 Photo emitter x-ray source array (PeXSA)", The Board of Trustees of the Leland Stanford Junior University, Palo Alto, CA (US), Dec 13, 2016
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LINKS

- My SLAC faculty information: <https://faculty.slac.stanford.edu/photon-science-faculty-bios#Pianetta>
- My Google Scholar Page: https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=piero+pianetta&btnG=

Teaching

COURSES

2019-20

- The Electronic Structure of Surfaces and Interfaces: EE 329, PHOTON 329 (Aut)

2017-18

- The Electronic Structure of Surfaces and Interfaces: EE 329, PHOTON 329 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Ponan Li, Maha Yusuf

Postdoctoral Faculty Sponsor

David Agyeman Budu, Yechuan Chen, Roberto Colina Ruiz, Oliver Hoidn, Nathan Johnson, Jizhou Li, Partha Paul, Molleigh Preefer, Guannan Qian, Suchismita Sarker, Archana Sinha, Eleanor Spielman-Sun, Gang Wan, Nicholas Weadock, Guibin Zan

Doctoral (Program)

Marc Jaikissoon, Ponan Li

Publications

PUBLICATIONS

- **Automatic 3D image registration for nano-resolution chemical mapping using synchrotron spectro-tomography.** *Journal of synchrotron radiation*
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- **Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide.** *Nature communications*
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- **Operando Tailoring of Defects and Strains in Corrugated beta-Ni(OH)₂ Nanosheets for Stable and High-Rate Energy Storage.** *Advanced materials (Deerfield Beach, Fla.)*
Li, S., Sharma, N., Yu, C., Zhang, Y., Wan, G., Fu, R., Huang, H., Sun, X., Lee, S., Lee, J., Nordlund, D., Pianetta, P., Zhao, et al
2020; e2006147
- **Hybrid real- and reciprocal-space full-field imaging with coherent illumination** *JOURNAL OF OPTICS*
Li, P., Wakatsuki, S., Pianetta, P. A., Liu, Y.
2020; 22 (11)

- **Hierarchical Defect Engineering for LiCoO₂ through Low-Solubility Trace Element Doping** *CHEM*
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2020; 6 (10): 2759–69
- **Mutual modulation between surface chemistry and bulk microstructure within secondary particles of nickel-rich layered oxides.** *Nature communications*
Li, S., Jiang, Z., Han, J., Xu, Z., Wang, C., Huang, H., Yu, C., Lee, S., Pianetta, P., Ohldag, H., Qiu, J., Lee, J., Lin, et al
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- **Generalizable density functional theory based photoemission model for the accelerated development of photocathodes and other photoemissive devices** *PHYSICAL REVIEW B*
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- **Machine-learning-revealed statistics of the particle-carbon/binder detachment in lithium-ion battery cathodes.** *Nature communications*
Jiang, Z., Li, J., Yang, Y., Mu, L., Wei, C., Yu, X., Pianetta, P., Zhao, K., Cloetens, P., Lin, F., Liu, Y.
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- **Quantifying redox heterogeneity in single-crystalline LiCoO₂ cathode particles.** *Journal of synchrotron radiation*
Wei, C., Hong, Y., Tian, Y., Yu, X., Liu, Y., Pianetta, P.
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- **Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage** *JOULE*
Li, S., Zhang, Y., Liu, N., Yu, C., Lee, S., Zhou, S., Fu, R., Yang, J., Guo, W., Huang, H., Lee, J., Wang, C., Kim, et al
2020; 4 (3): 673–87
- **Revealing the inhomogeneous surface chemistry on the spherical layered oxide polycrystalline cathode particles** *CHINESE PHYSICS B*
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- **Surface Photovoltage-Induced Ultralow Work Function Material for Thermionic Energy Converters** *ACS ENERGY LETTERS*
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- **Quantification of Heterogeneous Degradation in Li-Ion Batteries** *ADVANCED ENERGY MATERIALS*
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- **High-Voltage Charging-Induced Strain, Heterogeneity, and Micro-Cracks in Secondary Particles of a Nickel-Rich Layered Cathode Material** *ADVANCED FUNCTIONAL MATERIALS*
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- **Thermally driven mesoscale chemomechanical interplay in Li_{0.5}Ni_{0.6}Mn_{0.2}Co_{0.2}O₂ cathode materials** *JOURNAL OF MATERIALS CHEMISTRY A*
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- **Back-gated graphene anode for more efficient thermionic energy converters** *NANO ENERGY*
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- **Determination of copper nanoparticle size distributions with total reflection X-ray fluorescence spectroscopy** *JOURNAL OF SYNCHROTRON RADIATION*
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- **Analysis of Cathodic Reaction Process of SiCl₄ during Si Electrodeposition in Ionic Liquids** *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*
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- **Unsupervised Data Mining in nanoscale X-ray Spectro-Microscopic Study of NdFeB Magnet** *SCIENTIFIC REPORTS*
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- **Interface Engineering for Atomic Layer Deposited Alumina Gate Dielectric on SiGe Substrates.** *ACS applied materials & interfaces*
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2016; 8 (29): 19110-19118
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- **Formation of Si1+ in the early stages of the oxidation of the Si[001] 2x1 surface** *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A*
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- **Characterization of electronic structure of periodically strained graphene** *APPLIED PHYSICS LETTERS*
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- **Registration of the rotation axis in X-ray tomography.** *Journal of synchrotron radiation*
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- **Evidence for an unorthodox firing sequence employed by the Berlin Painter: deciphering ancient ceramic firing conditions through high-resolution material characterization and replication** *JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY*
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- **Recent advances in synchrotron-based hard x-ray phase contrast imaging** *JOURNAL OF PHYSICS D-APPLIED PHYSICS*
Liu, Y., Nelson, J., HOLZNER, C., Andrews, J. C., Pianetta, P.
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- **The plastic nature of the human bone-periodontal ligament-tooth fibrous joint** *BONE*
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Blaber, E. A., Dvorochkin, N., Lee, C., Alwood, J. S., Yousuf, R., Pianetta, P., Globus, R. K., Burns, B. P., Almeida, E. A.
2013; 8 (4)
- **Three-dimensional microstructural mapping of poisoning phases in the Neodymium Nickelate solid oxide fuel cell cathode** *SOLID STATE IONICS*
Harris, W. M., Lombardo, J. J., DeGostin, M. B., Nelson, G. J., Luebke, H., Schuler, J. A., Van herle, J., Andrews, J. C., Liu, Y., Pianetta, P., Chen, Y. K., Wang, J., Chiu, et al
2013; 237: 16-21
- **Nanoscale Examination of Microdamage in Sheep Cortical Bone Using Synchrotron Radiation Transmission X-Ray Microscopy** *PLOS ONE*
Brock, G. R., Kim, G., Ingrassia, A. R., Andrews, J. C., Pianetta, P., van der Meulen, M. C.
2013; 8 (3)
- **In Vacuo Photoemission Studies of Platinum Atomic Layer Deposition Using Synchrotron Radiation** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*
Geyer, S. M., Methaapanon, R., Shong, B., Pianetta, P. A., Bent, S. F.
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- **Portable atomic layer deposition reactor for in situ synchrotron photoemission studies.** *Review of scientific instruments*
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2013; 1 (36): 10847-10856
- **Data-processing strategies for nano-tomography with elemental specification** *SPIE X-ray Nanoimaging Conference - Instruments and Methods*
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- **Portable atomic layer deposition reactor for in situ synchrotron photoemission studies** *REVIEW OF SCIENTIFIC INSTRUMENTS*
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- **Experimental verification of the 3-step model of photoemission for energy spread and emittance measurements of copper and CsBr-coated copper photocathodes suitable for free electron laser applications** *APPLIED PHYSICS LETTERS*
Maldonado, J. R., Pianetta, P., Dowell, D. H., Corbett, J., Park, S., Schmerge, J., Trautwein, A., Clay, W.
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- **Hard X-ray Nanotomography of Catalytic Solids at Work** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
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AMER SOC MECHANICAL ENGINEERS.2012: 581–584
- **FULL FIELD IMAGING OF NICKEL OXIDATION STATES IN SOLID OXIDE FUEL CELL ANODE MATERIALS BY XANES NANOTOMOGRAPHY** *9th International Conference on Fuel Cell Science, Engineering and Technology*
Harris, W. M., Nelson, G. J., Izzo, J. R., Grew, K. N., Chiu, W. K., Chu, Y. S., Yi, J., Andrews, J., Liu, Y., Pianetta, P.

AMER SOC MECHANICAL ENGINEERS.2012: 267–269

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- **Ultrathin ALD-Al₂O₃ layers for Ge(001) gate stacks: Local composition evolution and dielectric properties** *JOURNAL OF APPLIED PHYSICS*
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2011; 29 (6)
- **Three-dimensional imaging of chemical phase transformations at the nanoscale with full-field transmission X-ray microscopy** *JOURNAL OF SYNCHROTRON RADIATION*
Meirer, F., Cabana, J., Liu, Y., Mehta, A., Andrews, J. C., Pianetta, P.
2011; 18: 773-781
- **Transmission X-Ray Microscopy for Full-Field Nano Imaging of Biomaterials** *MICROSCOPY RESEARCH AND TECHNIQUE*
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2011; 109 (11)
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- **3D nanoscale chemical imaging of Li-ion battery electrodes** *241st National Meeting and Exposition of the American-Chemical-Society (ACS)*
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- **Phase retrieval using polychromatic illumination for transmission X-ray microscopy** *OPTICS EXPRESS*
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