The Electrochemical
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**DEPARTMENTS**

# Awards Program Fall 2026

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# ECS Awards, Fellowships, and Grants

The ECS Honors & Awards Program celebrates the innovators and changemakers driving breakthroughs in electrochemistry and solid state science and technology. The program shines a spotlight on exceptional technical achievements while honoring those whose dedication and service strengthen the Society.

With opportunities spanning Society, division, section, and student awards—along with fellowships and travel grants—the program empowers and elevates excellence at every stage of the scientific journey. Award amounts are in US dollars unless otherwise noted.

***Nomination period: October 31, 2026, through January 31, 2027**
****Nomination period: October 15, 2026, through January 15, 2027, unless otherwise noted.**

**Visit www.electrochem.org/awards for more information.**

## Society Awards

***Carl Wagner Memorial Award** (est. 1980) acknowledges mid-career achievement, excellence in research areas of interest to the Society, and significant contributions in the teaching/guidance of students/colleagues in education, industry, or government. The award consists of a sterling medal, wall plaque, ECS Life Membership, and meeting registration, including up to $1,000 for travel expenses.

***Olin Palladium Award** (est. 1950) recognizes distinguished contributions to electrochemical or corrosion science through a $7,500 prize, palladium medal, wall plaque, ECS Life Membership, and meeting registration.

***Fellow of The Electrochemical Society** (est. 1989) honors advanced individual technological contributions to electrochemical and solid state science and technology, and active membership and involvement in ECS's affairs, with a certificate and a lapel pin. ECS membership is required.

**Leadership Circle Awards** (est. 2002) recognize our Institutional Partners in electrochemistry and solid state science for reaching milestone levels of support with commemorative plaques. **Nominations are not accepted.**

## Division Awards

****Battery Division Early Career Award** (est. 2020) recognizes and supports the development of talented future leaders in the field and encourages excellence among battery and fuel cell postdoctoral researchers by providing a $2,000 prize, certificate, and meeting registration, including up to $2,000 in travel reimbursement. ECS membership is required.

****Battery Division Postdoctoral Associate Research Award Sponsored by MTI Corporation and the Jiang Family Foundation** (est. 2016) encourages excellence among postdoctoral researchers in battery and fuel cell research with a prize of $2,000, certificate, and up to $1,000 in travel reimbursement. ECS membership is required.

****Battery Division Research Award** (est. 1958)—with the prize of $2,000, a certificate, ECS Battery Division membership, and discretionary travel reimbursement—recognizes excellence in battery and fuel cell research; honors outstanding contributions to the science of primary and secondary cells, batteries, and fuel cells; and encourages publication in ECS journals. ECS membership is required.

****Battery Division Technology Award** (est. 1993) recognizes significant achievement in battery and fuel cell technology and encourages development in this area with a prize of $2,000, certificate, ECS Battery Division membership, and discretionary travel reimbursement. ECS membership is required.

****Corrosion Division Early Career Award** (est. 2024) acknowledges corrosion science and technology early career researchers' and engineers' contributions with a prize of $1,000, certificate, and meeting registration, including up to $1,000 in meeting travel expenses. ECS membership is required.

****Corrosion Division H. H. Uhlig Award** (est. 1973) distinguishes excellence in corrosion research and outstanding technical contributions to the field of corrosion science and technology with the presentation of a $1,500 prize, a certificate, and meeting registration, including up to $1,000 in meeting travel expenses.

****Corrosion Division Rusty Award for Mid-Career Excellence** (est. 2021) recognizes corrosion science and technology mid-career achievements and contributions with an award of $1,000, a certificate, and meeting registration, including up to $1,000 in meeting travel expenses. ECS membership is required.

****Electrodeposition Division Early-Career Investigator Award** (est. 2015) acknowledges outstanding early-career electrochemical deposition science and technology researchers with a $1,000 prize, a certificate, meeting registration, and a division business meeting luncheon ticket. ECS membership is required.

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**Electrodeposition Division Research Award** (est. 1979) rewards outstanding recent electrodeposition achievements or research contributions (as demonstrated by quality papers published in the *Journal of The Electrochemical Society* or other ECS publications) with a $2,000 prize, a certificate, and a division business meeting luncheon ticket. ECS membership is required.

** **Energy Technology Division Walter van Schalkwijk Award for Sustainable Technology** (est. 2021) honors, with $1,000 and a certificate, the research scientists, academicians, and entrepreneurs making innovative and transformative contributions to sustainable energy technologies. ECS membership is required.

**High-Temperature Energy, Materials, & Processes Division J. Bruce Wagner, Jr. Early-Career Award** (est. 1998) recognizes a young Society member demonstrating exceptional promise for a successful career in high-temperature materials science and/or technology with a $1,000 prize, a certificate, and meeting registration, including up to $1,000 in meeting travel expenses. ECS membership is required.

**High-Temperature Energy, Materials, & Processes Division Subhash Singhal Award** (est. 2017) recognizes the excellence and exceptional research contributions of distinguished researchers to the science and engineering of solid oxide fuel cells (SOFC) and electrolyzers (SOEC) materials, processes, and manufacturing with $1,000 and a certificate. ECS membership is required.

**Organic and Biological Electrochemistry Division Manuel M. Baizer Award** (est. 1992), consisting of $1,000 and a certificate, recognizes outstanding achievements in the electrochemistry of organic and organometallic compounds, carbon-based polymers, and biomass, spanning fundamental and applied research.

**Physical and Analytical Electrochemistry Division Max Bredig Award in Molten Salt and Ionic Liquid Chemistry** (est. 1984) recognizes excellence in the field and stimulates publication of high-quality PAE research papers in the *Journal of The Electrochemical Society* with $1,500 and a certificate.

**Sensor Division Early Career Award** (est. 2021) recognizes contributions to sensors and encourages early-career engineers and scientists to continue careers in the field and to remain active in the ECS Sensor Division. Recipients receive a $1,000 prize, a certificate, meeting registration, and a division business meeting luncheon ticket. ECS membership is required.

**Sensor Division Outstanding Achievement Award** (est. 1989) encourages excellence in sensors by acknowledging outstanding service to the sensor community and achievement in research and/or technical contributions. The award is a $1,500 prize, a certificate, meeting registration, and a division business meeting luncheon ticket. ECS membership is required.

## Section Awards

**Canada Section W. Lash Miller Award** (est. 1967) recognizes excellence in publications and/or technical contributions in the field of electrochemical science and technology and/or solid state science and technology with a CAD $1,000 prize.

**Europe Section Heinz Gerischer Award** (est. 2001) honors an individual or up to three individuals for outstanding contributions to semiconductor electrochemistry and photoelectrochemistry, including the significant underlying areas of physical and materials. The award consists of €2,000 and a certificate.

NEW! **Texas Section Electrochemistry Award Sponsored by UL Research Institutes (ULRI) on Behalf of the Electrochemical Safety Research Institute** (est. 2026) honors up to two scientists or engineers working in Texas each year for their contributions to electrochemical science and technology and/or solid state science. The award consists of a certificate and $1,000.

## Student Awards

**Battery Division Student Research Award** (est. 1979) encourages promising young engineers and scientists studying electrochemical power sources to initiate or to continue careers in the field. The award comprises a $1,000 prize, a certificate, and meeting registration, including up to $1,000 in travel reimbursement. ECS membership is required.

**Canada Section Student Award** (est. 1987) supports promising young electrochemical power source engineers and scientists initiating or pursuing careers in the field with $1,500 and a certificate.

**Corrosion Division Morris Cohen Graduate Student Award** (est. 1991) rewards outstanding corrosion science and/or engineering graduate research with a $1,000 prize, a certificate, and up to $1,000 in meeting travel expenses.

**ECS General Student Poster Session Awards** (est. 1993) recognize research of general interest to the Society and aim to promote graduate and undergraduate work in electrochemical and solid state science and technology while encouraging active student interest and participation in ECS. Posters accepted for presentation are eligible for awards of $1,500 (1st place); $1,000 (2nd place); and $500 (3rd place).

**Georgia Section Outstanding Student Achievement Award** (est. 2011) honors academic accomplishments in any area of science or engineering in which electrochemical and/or solid state science and technology is central. The award is $500. ECS membership is required.

**Korea Section Student Award** (est. 2005) acknowledges a Korean university PhD student's academic accomplishment in any area of science or engineering in which electrochemical and/or solid state science and technology is central. The award is $500.

**Pacific Northwest Section Electrochemistry Student Award Sponsored by Thermo Fisher Scientific** (est. 2021) inspires promising young engineers and scientists pursuing PhDs in electrochemical engineering and applied electrochemistry in Washington, Oregon, and Idaho, through a $1,000 prize, to continue in the field. ECS membership is required.

**San Francisco Section Daniel Cubicciotti Student Award** (est. 1994) assists deserving students in Northern California pursuing careers in the physical sciences or engineering with $2,000 and a plaque. Up to two students receive honorable mention awards of $500 and a certificate.

**Sensor Division Student Research Award** (est. 2021) honors promising graduate students conducting outstanding sensor research with a $500 prize, a certificate, meeting registration, and a division business luncheon ticket. ECS membership is required.

## Fellowships

**Colin Garfield Fink Fellowship** (est. 1962) provides postdoctoral scientist/researchers with $5,000 to pursue research from June through September in a field of interest to the Society, and the opportunity to publish a report in *ECS Interface*. ECS membership is required.
**Application deadline: January 15, 2027**

**ECS Summer Fellowships** (est. 1928) provide students with $5,000 to pursue research from June through August in a field of interest to ECS and publish a report in *ECS Interface.* Support is through the Edward G. Weston Fellowship, Joseph W. Richards Fellowship, F. M. Becket Fellowship, and H. H. Uhlig Fellowship. ECS membership is required.
**Application deadline: January 15, 2027**

**ECS Toyota Young Investigator Fellowship** (est. 2015 in partnership with the Toyota Research Institute of North America), encourages young professionals and scholars to pursue research into innovative electrochemical research in green energy technologies (batteries, fuel cells, hydrogen, and future sustainable technologies). Fellows receive $50,000 to conduct their proposed research within one year and ECS membership for one year. Recipients are required to present their research at a Society meeting and publish an open-access article in an ECS journal. ECS membership is required.
**Application deadline: April 30, 2027**

## Travel Grants

**Biannual Meeting Travel Grants**, offered by many ECS divisions and sections to undergraduates, graduate students, postdoctoral researchers, and young professionals and faculty presenting ECS biannual meeting papers, range from meeting registration to luncheon/reception tickets, travel expenses, and more. Application requirements vary by division and section.
**251st ECS Meeting Travel Grant application deadline: March 1, 2027**



# ECS Award Winners

*Join us in congratulating our colleagues recognized by the ECS Honors & Awards Program for their outstanding technical achievements and contributions to electrochemical and solid state science and technology.*

## Society Awards

### Charles W. Tobias Early-Career Award



**Burcu (Eksioglu) Gurkan** is the Kent Hale Smith II Professor in the Department of Chemical and Biomolecular Engineering at Case Western Reserve University (CWRU). She is also Director of BEES2 (Breakthrough Electrolytes for Energy Storage Systems), a US Department of Energy | Energy Frontier Research Center. Her team develops deep eutectic solvents and ionic liquids for solving problems in separations, electrocatalysis, energy storage, and conversion, with particular focus on understanding solvation, transport, and interfacial properties.

Prof. Gurkan completed a BS at the Middle East Technical University (2004) and PhD in Chemical Engineering at the University of Notre Dame (2011). Before joining CWRU in 2016, she worked as a Postdoctoral Researcher in Chemical Engineering at the Massachusetts Institute of Technology (2011–2013) and in Polymer Engineering at The University of Akron (2013–2015). Prof. Gurkan has published close to 100 articles with an h-index of 39. She was included in the 2019 Class of Influential Researchers by *ACS Industrial and Engineering Chemistry Research.* Honors she has received include the 2025 Presidential Early Career Award for Scientists and Engineers (PECASE) Award, 2021 Scialog Fellowship in Negative Emissions Science, 2021 NSF CAREER, and 2018 NASA Early Career Faculty awards. Prof. Gurkan is an Associate Editor for *ACS Applied Engineering Materials*.

Prof. Gurkan joined ECS in 2016 and is the treasurer of the ECS Mid-America Section and member at large of the ECS Physical and Analytical Electrochemistry Division.

### Edward G. Acheson Award



**Robert F. Savinell** is Distinguished University Professor and George S. Dively Professor of Engineering at Case Western Reserve University (CWRU). He also holds a position as Adjunct Professor of Physics at the University of Limerick. His research is directed at fundamental science and mechanistic issues of electrochemical processes, as well as device design, development, modeling, and optimization.

Prof. Savinell earned his PhD in Chemical Engineering at the University of Pittsburg under the guidance of Professor **Chung-Chiun Liu**. He was a research engineer at Diamond Shamrock Corporation and faculty member at the University of Akron before joining the faculty of CWRU in 1986. At CWRU, Prof. Savinell served as Director of the Ernest B. Yeager Center for Electrochemical Sciences for 10 years and Dean of Engineering for seven years. He has been a visiting professor at Yamanashi University, Danmarks Tekniske Universitet, and the Massachusetts Institute of Technology. Prof. Savinell was the Director of the DOE Energy Frontiers Research Center on Breakthrough Electrolytes for Energy Storage (BEES) from 2018 to 2026.

Prof. Savinell is a Fellow of The Electrochemical Society (2000), Fellow of the American Institute of Chemical Engineers (2003), and Fellow of the International Society of Electrochemistry (2013). He was elected to the National Academy of Inventors in 2024. His numerous honors include the 2020 CWRU Frank and Dorothy Humel Prize for exceptional achievements in teaching, research, and scholarly service that have benefited the community, the nation, and the world. In 2022, ECS presented Prof. Savinell with the Vittorio De Nora Award, and in 2018, he received the DOE Emerging Frontiers Research Center Grant.

Since joining ECS in 1978, Prof. Savinell has been an active member. He currently serves or served in the past in many Society leadership roles and on many committees. Prof. Savinell is Senior Vice President of the Society for the 2026–2027 term and a member at large of the ECS Industrial Electrochemistry and Electrochemical Engineering Division (2012–2028). He was the Editor-in-Chief of the *Journal of The Electrochemical Society* from 2013 to 2024.

### Bruce Deal and Andy Grove Young Author Award



**Hongpeng Zhang** is an Associate Professor and Master's Supervisor at the School of Optoelectronic and Communication Engineering, Xiamen University of Technology. He also supervises the Master's Program in Electronic Information, recruiting one to two students annually. His research focuses on ultra-wide bandgap semiconductor devices, particularly gallium oxide ($\beta$-$Ga_2O_3$) power electronics. Key areas include the design, fabrication, and reliability of $Ga_2O_3$-based power devices, SiC and $Ga_2O_3$ process technologies, and semiconductor device simulation.

Prof. Zhang holds a PhD in Electronic Science and Technology from Xidian University (2021) and is recognized as a Class C High-Level Talent of Fujian Province. He has led projects funded by the National Natural Science Foundation of China (NSFC), Fujian Provincial Department of Education, and Xiamen Science and Technology Bureau. He has published more than 20 papers, two of which have been ranked as highly cited by Clarivate and the Institute of Physics. His winning paper is "Spectroscopic Calculation of Band Alignment Between High Permittivity Composites ZrSiO, AlSiO and $\beta$-$Ga_2O_3$." Clarivate Essential Science Indicators and the Institute of Physics | IOP Publishing each ranked one of his papers as highly cited.

### Norman Hackerman Young Author Award



**Ruihao Deng** is currently a PhD candidate in Mechanical Engineering at Rensselaer Polytechnic Institute (RPI), where he works in Professor **Fudong Han**'s research group on advanced electrochemical energy-storage materials and battery systems. Deng's research focuses on solid state and sodium ion batteries. Working at the interface of electrochemistry and materials science, he aims to understand how synthesis, processing, microstructure, and interfaces influence cell performance, cost, and lifetime. His recent work includes a calendar-aging study of thiophosphate-based solid state batteries. By measuring the capacity decay of Li6PS5Cl-based solid state batteries, he reported internal self-discharge as the dominant source for calendar decay of solid state batteries. The work proposes a largely overlooked challenge for solid state battery development and calls for more careful study of the electronic transport properties of lithium solid electrolytes.

Before joining RPI, Ruihao received his BS in Process Equipment and Control Engineering from the China University of Petroleum and his MS in Mechanical Engineering from Northeastern University. He has authored/co-authored six research articles in the *Journal of Electrochemical Energy Conversion and Storage*, *ACS Energy Letters*, *Journal of Materials Chemistry A*, *ACS Applied Materials & Interfaces*, and *Advanced Functional Materials*. He has also presented his work at two professional conferences.

# Division Awards

## Battery Division Early Career Award



**Matteo Bianchini** is Chair of Inorganic Active Materials for Electrochemical Energy Storage at the Universität Bayreuth, part of the Bayerisches Zentrum für Batterietechnik (BayBatt), of which he is Vice Director. At BayBatt, his group investigates and develops electrode materials, synthetic methods, and analytical tools for the next generation of batteries. Their current focus is Li-, Na- and K-ion batteries, as well as sodium solid state batteries. He also serves as the program moderator for the master's degree program, "Battery Materials and Technology," and co-director of the ALISTORE European Research Institute.

Prof. Bianchini studied Physics Engineering at Politecnico di Milano and obtained his PhD in Solid State Chemistry in 2015 with Prof. **Christian Masquelier**, Dr. **Laurence Croguennec**, and Dr. **Emmanuelle Suard** in a program shared by the Institut Laue-Langevin, Laboratoire de Réactivité et de Chimie de Solides, and Institut de Chimie de la Matière Condensée. He was a Postdoctoral Researcher in Prof. **Gerbrand Ceder**'s group at the Lawrence Berkeley National Laboratory (LBNL), working on the design, synthesis, and characterization of materials for Na- and K-ion batteries. He then became a postdoctoral researcher at BELLA-KIT (Battery and Electrochemistry Laboratory at the Karlsruher Institut für Technologie) under Prof. **Jürgen Janek**. There he investigated Ni-rich cathode materials for Li-ion batteries, prior to joining BASF as a lab team leader to co-supervise the BELLA lab. He joined the Universität Bayreuth in 2021.

Among the awards Prof. Bianchini received are the 2025–2026 IBA (International Battery Materials Association) Early Career Award and 2021 ERC (European Research Council) Starting Grant for his 4SBATT project. He joined ECS in 2015, the year he received the ECS Battery Division Student Research Award.

## Battery Division Postdoctoral Associate Research Award

***Sponsored by MTI Corporation and the Jiang Family Foundation***



**Sicen Yu** is a postdoctoral researcher in the Department of Materials Science and Engineering at the University of Washington. His research focuses on advanced materials for high energy batteries, particularly lithium metal anodes and sulfur-based cathodes.

Dr. Yu received his BS from the Southern University of Science and Technology and PhD in Materials Science and Engineering from the University of California San Diego.

## Battery Division Research Award



**Martin Bazant** is the Chevron Professor of Chemical Engineering and Mathematics at the Massachusetts Institute of Technology (MIT). His contributions span multiple scales, from quantum theory of coupled ion-electron transfer and statistical cluster models of ionic liquids to continuum models of electrokinetics, electro-chemo-mechanics, and electrochemical phase transformations. He has integrated these advances into the open-source multiphase porous electrode theory (MPET) software for battery simulations. He is also the Chief Scientist and Cofounder of Lithios, Inc., an MIT startup commercializing advanced lithium extraction (ALE) from brines by intercalation in battery electrodes.

After completing a PhD in Physics at Harvard University in 1997, Prof. Bazant joined the MIT Mathematics faculty in 1998. He joined the Chemical Engineering Department in 2008, where he served as Executive Officer from 2016 to 2020. From 2015 to 2025, he was Director of the D3BATT Center for Data-Driven Design of Batteries sponsored by Toyota Research Institute, "re-making battery science" and pioneering battery informatics. He cofounded the International Electrokinetics Society and serves as its President. He consults extensively for industry and serves as Chief Scientific Advisor for Saint-Gobain Research North America.

Prof. Bazant is a Highly Cited Researcher in batteries, member of the National Academy of Engineering, and Fellow of The Electrochemical Society, International Society of Electrochemistry, Royal Society of Chemistry, and American Physical Society. He holds multiple awards, including the 2019 MITx Prize for Teaching and Learning in MOOCs (Massive Open Online Courses), 2018 American Institute of Chemical Engineers (AIChE) Andreas Acrivos Award for Professional Progress in Chemical Engineering, and 2015 International Society of Electrochemistry (ISE) Alexander Kuznetsov Prize in Theoretical Electrochemistry. He joined ECS in 2008.

## Battery Division Technology Award



**Ping Liu** is the William Coles Chair Professor of Nanoengineering and Director of the Sustainable Power and Energy Center (SPEC) at the University of California San Diego (UCSD). Prof. Liu's research focuses on electrochemical materials science, including its applications in energy conversion and storage as well as in nanomaterials synthesis. His work on rechargeable lithium batteries includes the design of both solid and liquid electrolytes, disordered rock salt anodes, sulfur cathodes, and safety.

Prof. Liu received his PhD in Chemistry from Fudan University in 1995. From 1997 to 2003, he was Senior Scientist with the National Renewable Energy Laboratory (NREL), then from 2003 to 2012, he managed the Energy Technology Department at HRL Laboratories where he was named a Distinguished Inventor for multiple years. Prior to joining UCSD in 2016, Prof. Liu was a Program Director at the Advanced Research Projects Agency-Energy (ARPA-E) from 2012 to 2015. There he initiated and managed research programs in energy storage for electric vehicles and thermal management technologies to improve building energy efficiency.

Prof. Liu has published more than 180 peer-reviewed papers and holds 60 US patents. He is a cofounder of Tyfast Energy and founding advisor to Sonocharge. He received a 2009 R&D 100 Award for a solid state battery technology developed at NREL and was inducted as a Fellow into the National Academy of Inventors in 2025. Prof. Liu joined ECS in 2003 and was recently appointed as a Technical Editor for the *Journal of The Electrochemical Society.*

## Corrosion Division Early-Career Award



**Samantha Gateman** is an Assistant Professor in the Department of Chemistry at Western University and Nuclear Waste Management Organization Chair in Radiation-Induced Corrosion Chemistry. Her research focuses on understanding how materials degrade in complex environments through the development of electrochemical methods. She is interested in localized corrosion and links between microstructure and material performance.

Dr. Gateman is recognized for her work in advancing scanning electrochemical probe microscopy for corrosion science, including the development of methodologies that improve the reliability and interpretation of localized electrochemical measurements. Her group

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**Award Winners**

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applies these techniques to challenges that span transportation, energy, nuclear materials, and biomedical device technologies. In parallel, she is pioneering the emerging field of radiation electrochemistry, developing in situ electrochemical methods to investigate how ionizing radiation influences corrosion. Her research is supported through collaborations with organizations in the nuclear sector in Canada and abroad.

Dr. Gateman received her BSc and PhD in Chemistry from McGill University and completed an NSERC Postdoctoral Fellowship at Sorbonne Université Paris. In 2024, *Chemical & Engineering News* included her in their annual "Talented Twelve" list, which recognizes scientists making a global impact. In 2025, she received Western University's Postdoctoral Supervisor of the Year Award for her commitment to mentorship and trainee development. Prof. Gateman joined ECS in 2016.

Outside the laboratory, she enjoys spending time with her husband and son, exploring the outdoors through running, and relaxing with knitting projects. She is passionate about mentoring the next generation of scientists and fostering collaborative research communities that support both scientific excellence and personal growth.

## Corrosion Division H. H. Uhlig Award



**Arjan Mol** is Professor of Corrosion Technology and Electrochemistry and Vice Chair of the Department of Materials Science and Engineering at the Technische Universiteit Delft. His research focuses on studying fundamental material degradation and protection mechanisms, specifically local electrochemical analysis of corrosion, advanced surface treatments, metal-polymer interfacial bonding, and eco-friendly, active protective and self-healing coatings. Alongside his faculty position, Prof. Mol is Scientific Director of 4TU.Centre High-Tech Materials, coordinating collaborative materials research across the Netherlands' four technical universities. His extensive contributions to academic publishing and international societies include being Editor-in-Chief of *Corrosion Science* since 2017. He held successive leadership roles within the European Federation of Corrosion (EFC), serving as Chair of the Scientific and Technology Advisory Committee (2014–2016), Vice President (2017–2018), President (2019–2020), and Past President (2021–2022).

His impactful research and professional service have earned international accolades. He received the 2023 EFC European Corrosion Medal for his profound contributions to the global scientific community. The Netherlands Academy of Engineering recognized his leadership in technological innovation in 2023 with election as a Fellow. The UK Institute of Corrosion honored him with the prestigious 2026 UR Evans Award, the institute's highest distinction for outstanding international achievements in pure and applied corrosion science. His academic portfolio remains dedicated to translating fundamental electrochemical and interface science into practical engineering solutions for corrosion lifetime prediction and longevity. Prof. Mol joined ECS in 2007.

## Corrosion Division Rusty Award for Mid-Career Excellence



**Yoshinao Hoshi** is Associate Professor in the Graduate School of Engineering at Nagoya Institute of Technology. His research spans both fundamental and applied corrosion science, including alloy dissolution, localized corrosion, hydrogen evolution during metal dissolution, corrosion diagnosis, and advanced impedance-based analysis; focuses include electrochemical impedance spectroscopy and the development of advanced electrochemical methodologies for corrosion science. Through innovations in impedance-based analysis, corrosion monitoring, and real-time electrochemical imaging, he has contributed to the quantitative characterization and mechanistic understanding of corrosion processes in metallic materials. His recent work on three-dimensional complex impedance plot analysis and real-time imaging has provided new insights into the relationship between microstructure and corrosion behavior.

Prof. Hoshi received his BS in Materials Engineering from Shibaura Institute of Technology in 2007 and his MS and PhD in Materials Engineering from the Tokyo Institute of Technology in 2009 and 2012, respectively. He joined the Tokyo University of Science as Assistant Professor in 2012, was promoted to Junior Associate Professor in 2017, and moved to Nagoya Institute of Technology as Associate Professor in 2020. Prof. Hoshi is the author of more than 100 peer-reviewed publications.

An active member of The Electrochemical Society since 2008, Prof. Hoshi has presented more than 120 abstracts at ECS meetings, including invited talks; organized several ECS symposia; and currently serves on the ECS Interdisciplinary Science and Technology Subcommittee and the ECS Community Inclusion Committee. He also served as Chair of the 4th Asian Symposium on Electrochemical Impedance Spectroscopy (AEIS 2024).

## Electrodeposition Division Early Career Investigator Award



**Walter Giurlani** is an Assistant Professor of Chemistry and researcher in the Laboratory of Applied Electrochemistry (LEA) at the Università degli Studi di Firenze (UniFi). His research focuses on the deposition and characterization of metal coatings and the development of new analytical methods for electrodeposition processes. He started his research with electrochemical atomic layer deposition (E-ALD), then moved to bulk industrial electroplating processes principally exploiting pulse and reverse pulse currents. Prof. Giurlani also studied the electrodeposition of metals and compounds on silicon. Recently, he has been involved in the electrochemical fabrication of silicon nanowires. Driven by industrial and environmental needs, his work contributes to the implementation of sustainable, low-impact production processes and to developing metal-recovery devices for a circular economy.

Prof. Giurlani graduated in Chemistry in 2016 from UniFi and received his PhD there in 2020. He held research grants for three years on metal and semiconductor film deposition and their morphological and spectroscopical characterization. He has published 39 articles with an h-index of 21. Prof. Giurlani joined ECS in 2020.

## Electrodeposition Division Research Award



**Luca Magagnin** is Full Professor of Surface Engineering and Applied Electrochemistry at Politecnico di Milano. His research focuses on applications in electrochemical systems for energy storage (redox flow batteries, LIBs, and anode free batteries), surface engineering, and in the development, fabrication, and testing of innovative functional materials and coatings by electro/electroless deposition.

Prof. Magagnin received an MSc in Nuclear Engineering at the Politecnico di Milano in 1997 and PhD in Electrochemical Engineering there in 2000. He was a visiting scientist at the University of California, Berkeley, in 2000, then joined the Politecnico di Milano as Assistant Professor in 2008, becoming Associate Professor in 2015 and Full Professor in 2020.

The author of more than 300 publications (papers and book chapters), Prof. Magagnin is the coinventor of more than 20 patents. In 2018, his significant contributions to the plating and surface engineering fields on an international scale were recognized by the Surface Engineering Association (SEA) Outstanding International Contribution Award, presented jointly with CHTA, and sponsored

by British Jewellery & Giftware International. Prof. Magagnin received the 2013 Institute of Materials Finishing Johnson Matthey Silver Medal, 2003 International Society of Electrochemistry (ISE) Hans-Jürgen Engell Prize, and 2003 NACE A.B. Campbell Award.

Prof. Magagnin has been President of the Italian Association of Metal Finishing since 2012 and a board member of the European Academy for Surface Treatments (EAST) since 2015. He joined ECS in 2009 and from 2023 to 2025 served as Chair of the Electrodeposition Division.

## Energy Technology Division Walter van Schalkwijk Award in Sustainable Energy Technology



**Vito Di Noto** is Full Professor of Electrochemistry for Energy and Solid State Chemistry in the Department of Industrial Engineering at the Università degli Studi di Padova (UNIPD), where he leads the Chemistry of Materials for the Metamorphosis and Storage of Electrochemical Energy (CheMaMSE) Research Group. His research focuses on advanced functional materials for electrochemical energy conversion and storage, supporting sustainable energy transition through innovations in batteries, fuel cells, electrolyzers, supercapacitors, and solar cells. He pioneered novel electrolytes and electrode materials and contributed to the fundamental understanding of ion-conduction mechanisms in condensed phases. Prof. Di Noto is actively involved in major European research initiatives, including the European Energy Research Alliance, Batteries Europe, Batteries European Partnership Association, and Hydrogen Europe Research. Over the past three years, he has coordinated more than 10 national and international projects, securing over nine million euros in funding.

Prof. Di Noto obtained his PhD in Chemistry at UNIPD in 1992. He worked as a researcher in the university's Department of Inorganic, Metallorganic, and Analytical Chemistry until 2002 when he was named Professor of Inorganic Chemistry in the Department of Chemical Sciences. In 2015, he became a Full Professor. He received the 2022 ECS Energy Technology Division Award and 2024 Italian Knowledge Leaders Award. The author of more than 378 scientific publications with an h-index of 60, he holds 32 patents. Prof. Di Noto is included in Stanford University's list of "World's Top 2%" scientists.

He joined ECS in 2003 and has served on multiple award committees and as a member at large of the Energy Technology Division. He was named an ECS Fellow in 2019 and received the ECS Energy Technology Division Research Award in 2022. A Past President of the Italian Chemical Society Electrochemistry Division, he currently coordinates its Thematic Group on Conversion and Storage of Electrochemical Energy (ACee). He also chairs the International Society of Electrochemistry Publications Committee and co-leads the European Innovative Advanced Materials Initiative Working Group 5–Materials Innovation Markets (Energy).

## High-Temperature Energy, Materials, & Processes Division Outstanding Achievement Award



**Turgut Gür** is an Adjunct Professor of Materials Science and Engineering at Stanford University and Past President of The Electrochemical Society (2022–2023). He recently retired from Stanford after a career spanning more than three decades that included providing leadership to three major campus-based multi-disciplinary team- and theme-based research centers focused on energy and advanced materials. He also holds a Visiting Professor appointment at the Chinese University of Mining and Technology-Beijing (CUMTB), and an International Mentor appointment from the Norwegian University of Science and Technology.

Prof. Gür completed BS and MS degrees in Chemical Engineering at the Middle East Technical University and three graduate degrees, including a PhD in Materials Science and Engineering at Stanford University. He is a recognized leader in high-temperature electrochemical energy research, materials, and technologies with 11 US patents and more than 160 publications.

An active member of ECS since 1973, Prof. Gür has assumed numerous leadership positions in the Society, including serving on multiple ECS advisory boards and committees and the ECS Board of Directors and Executive Committee. He was ECS President (2022–2023) and Chair of the ECS High-Temperature Energy, Materials, & Processes Division (2015–2017) for which he is now a member at large. He co-organized 17 ECS symposia and coedited their *ECS Transaction* volumes. He was named Fellow of The Electrochemical Society in 2018.

Prof. Gür also served for three separate terms over 10 years on the Board of the International Society for Solid State Ionics (ISSI) and was an Associate Editor of the *Journal of the American Ceramic Society* for 12 years. In 2020, out of more than 186,000 energy scientists in the world, he was the 702nd most-cited energy researcher and ranked in the top one percent of most-cited scientists in the world across all scholarly fields of sciences, engineering, and medicine. He ranked in the top five percent of cited researchers in Royal Society of Chemistry journals.

## Luminescence and Display Materials Division Outstanding Achievement Award



**Eugeniusz Zych** heads the Luminescent Materials Group at the Uniwersytet Wrocławski (UWr). His research interests encompass energy storing luminescent materials, persistent luminescence phosphors, scintillators, dosimeters, phosphors for LED lighting and horticulture, luminescent temperature sensors, and multifunctional nanomaterials for biological and medical applications.

After receiving a PhD from UWr in 1994, Prof. Zych completed a postdoctoral fellowship in the Department of Chemistry at Boston University (1994–1997). He has headed the UWr Luminescent Materials Group since 2009 and served as Vice Dean of the Faculty of Chemistry (2005–2012) and Vice Rector for Research (2020–2022). Prof. Zych has supervised more than a dozen PhD students and numerous graduate students there. He has led nearly 20 nationally funded research projects, as well as several supported by the European Union, NATO, and industrial partners, including Philips.

The author of more than 200 scientific publications, Prof. Zych's received distinctions include the 2023 Minister of Science and Higher Education Award and the Golden Cross of Merit, presented by the President of Poland in 2023. He joined ECS in 2017 and served on multiple committees and chaired the ECS Luminescence and Display Materials Division for the 2023–2025 term.

## Physical and Analytical Electrochemistry Division David C. Grahame Award



**Marc Koper** is Professor of Surface Chemistry and Catalysis at Universiteit Leiden (LEI). His research focuses on fundamental aspects of multi-proton and electron transfer in relation to electrocatalysis, theoretical and computational electrochemistry, and electrochemical surface science, with relevance to renewable energy and chemistry.

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**Award Winners**

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Prof. Koper received his PhD from Universiteit Utrecht in 1994 with a thesis on nonlinear dynamics and oscillations in electrochemistry. He was an EU Marie Skłodowska-Curie Postdoctoral Fellow at the Universität Ulm and a Fellow of the Royal Netherlands Academy of Arts and Sciences at the Technische Universiteit Eindhoven, before moving to LEI in 2005. Among his various national and international awards are the 2026 European Chemical Society Gold Medal, 2021 Netherlands Organization for Scientific Research Spinoza Prize, 2021 ECS Allen J. Bard Award in Electrochemical Science, 2019 Netherlands Catalysis and Chemistry Award, 2017 Royal Society of Chemistry Faraday Medal, and 2013 ECS Carl Wagner Memorial Award. He also holds an honorary degree from the Universiteit Antwerpen and served as President of the International Society of Electrochemistry from 2021 to 2022.

## Sensor Division Early Career Award



**Aida Ebrahimi** is an Associate Professor of Electrical Engineering at The Pennsylvania State University, with a courtesy appointment in Biomedical Engineering. She is the Director of the Bioelectronics and Biosensor Engineering Laboratory, where her research focuses on bioelectronic interfaces, electrochemical and field-effect sensors, wearable and implantable devices, and advanced materials for healthcare and environmental monitoring. Her group develops multimodal sensing systems that integrate materials, devices, electronics, and artificial intelligence to interrogate complex biological systems ranging from microbial communities to neural and physiological processes.

Prof. Ebrahimi received her BS and MS in Electrical Engineering from the University of Tehran, and PhD in Electrical Engineering from Purdue University. Her research has been supported by the National Science Foundation, National Institutes of Health (NIH), US Department of Agriculture, industry partners, and private foundations. She has received the NSF CAREER Award, NIH:NIBIB (National Institute of Biomedical Imaging and Bioengineering) Trailblazer Award, ECS Sensor Division Early Career Award, Penn State Engineering Alumni Society (PSEAS) Outstanding Research Award, Rustum and Della Roy Innovation in Materials Research Award, Thomas and Sheila Roell Early Career Professorship in Electrical Engineering, and the Scialog Fellowship from the Research Corporation for Science Advancement.

Prof. Ebrahimi joined the Society in 2017 and is a member at large of the ECS Sensor Division, member of the ECS Sensor Division Awards Committee, and chair of the Women in Sensors Research Subcommittee. She is also an Associate Editor of the *IEEE Sensors Journal*.

## Sensor Division Outstanding Achievement Award



**Larry Nagahara** is Vice Dean for Research and Translation at the Whiting School of Engineering and Research Professor in the Department of Chemical and Biomolecular Engineering at Johns Hopkins University. For more than 25 years, he has been a devoted thought leader and steadfast advocate of nanotechnology and sensor application applied to biomedical applications. He has made lasting contributions through his groundbreaking work on nanometer scale phenomena at the solid-liquid interface with scanning probe microscopy and his pioneering applications made toward bio/chem nanosensors.

Prof. Nagahara received his BS in Physics from the University of California, Davis, and PhD in Physics from Arizona State University under Prof. **Stuart Lindsay**. He completed a postdoc fellowship in **Akira Fujishima**'s lab at the University of Tokyo, where he later became an assistant professor. In 1994, Prof. Nagahara joined Motorola, leading the company's nanosensor effort and rising to the rank of Distinguished Member of the Technical Staff. In 2007, he joined the National Cancer Institute as an Associate Director in the Division of Cancer Biology, where he directed and coordinated programs and research activities related to expanding the role of the physical sciences and engineering in cancer research. He is the author of more than 100 peer-reviewed articles and three book chapters and holds close to 30 issued/filed patents.

Since joining ECS in 2004, he has been an active member of the ECS Sensor Division, helping to organize more than 20 symposia and serving on the division's Executive Committee since 2008, and as Division Chair (2022–2024). He is a Fellow of The Electrochemical Society, American Association for the Advancement of Science (AAAS), American Institute for Medical and Biological Engineering (AIMBE), American Physical Society (APS), IEEE, and a former member of Motorola's Scientific Advisory Board.

## Sensor Division Outstanding Achievement Award



**Praveen Kumar Sekhar** is Associate Professor of Electrical Engineering at Washington State University Vancouver (WSU-V). An internationally recognized engineer, educator, and scholar, his work has advanced sensing technologies while expanding opportunities for students and communities historically underserved in STEM. At WSU-V, he has built a distinguished interdisciplinary research program at the intersection of electrochemical sensing, quantum sensing, wireless sensor systems, machine learning, and advanced manufacturing.

Prof. Sekhar received his BS from the Coimbatore Institute of Technology, and MS and PhD from the University of South Florida (USF). Over the course of his career, Prof. Sekhar has secured more than $2.25 million in research funding and led innovative projects that address critical societal challenges in healthcare, food security, environmental monitoring, and sustainable agriculture. His work has resulted in widely recognized advances in chemical/biosensing and sensor-enabled technologies, fostering collaborations among academia, industry, government agencies, and community partners.

Prof. Sekhar's contributions have earned national and international recognition. He is a Fellow of the Royal Society of Chemistry, Alexander von Humboldt Fellow, and Fulbright Specialist. He joined ECS in 2000 and currently chairs the ECS Sensors Division and serves as a Technical Editor of the *Journal of The Electrochemical Society*. From 2021 through the 2026 term, he was Associate Editor for *ECS Sensors Plus*. His excellence in research, teaching, leadership, and service has been recognized through numerous honors, including the Washington State University Chancellor's Award for Research Excellence, Chancellor's Award for Advancing Equity, Martin Luther King Jr. Distinguished Service Award, Student Award for Teaching Excellence, and Partners in Innovation Award.

Equally notable is his commitment to educational access and community engagement. Through mentorship, workforce development initiatives, and partnerships with Tribal Nations, K-12 schools, and community organizations, Prof. Sekhar has created pathways that empower the next generation of scientists, engineers, and innovators. He joined ECS in 2006 and has served on many committees. He is currently Chair of the ECS Sensor Division (2024–) and Technical Editor for Sensors for the *Journal of The Electrochemical Society*.

# Section Awards

## Canada Section Electrochemical Award



**Linda Faye Nazar** FRS FRSC OC is the Senior Canada Research Chair in Solid State Energy Materials and University Research Professor of Chemistry at the University of Waterloo. Her research focuses on developing new electrochemical energy storage materials and advancing next-generation rechargeable battery research through a combination of materials synthesis, advanced characterization tools, electrochemistry, and modeling. She is Liebig Professor at the Justus-Liebig-Universität Gießen.

Prof. Nazar completed a BSc in Chemistry in 1978 at the University of British Columbia and PhD in Chemistry in 1984 at the University of Toronto. She has co-authored more than 310 publications garnering more than 96,000 citations (h-index 140; Google Scholar), and 33 patents/patent applications. She was a member of the US Department of Energy's Hub, the Joint Center for Energy Storage Research, from 2013 to 2023, and part of their Directorate. Prof. Nazar currently sits on the Advisory Council for Princeton University's Andlinger Center for Energy and the Environment.

Prof. Nazar is a Fellow of the Royal Society (UK), Royal Society of Chemistry, and Royal Society of Canada. Among the many awards she has received are Officer of the Order of Canada; the 2025 Paul Corkum Killam Foundation Fellowship; 2024 Royal Society Hughes Medal for outstanding contributions in the field of energy; 2020 Materials Research Society Medal; 2019 University of Illinois Urbana-Champaign Bailar Medal; Chemical Institute of Canada 2022 Steacie Award; 2019 CIC Medal; 2017 International Automotive Lithium Battery Award; and 2009 ECS Battery Division Research Award.

## Europe Section Alessandro Volta Medal



**Philippe Marcus** is CNRS Director of Research Emeritus at the Institut de Recherche de Chimie Paris, École nationale supérieure de chimie de Paris, Université Paris Sciences et Lettres. His research focuses on surface science, surface electrochemistry, and corrosion science, with an emphasis on understanding the structure and properties of metal and alloy surfaces and thin oxide layers at the atomic and nanoscale. His work reveals the link between surface reactions at the nanoscale and the macroscopic corrosion behavior of metals and alloys.

Prof. Marcus received his PhD in Physical Sciences (1979) from the Université Pierre et Marie Curie. He has published more than 450 papers in international journals with an h-index of 96 and 33,998 citations (Google Scholar, June 2026). He has given more than 150 invited lectures at international conferences and serves or has served on the editorial board of five international journals, including *Electrochimica Acta*, *npj Materials Degradation*, and *Corrosion Science*.

Among the many honors Prof. Marcus has received are the 2024 Institute of Corrosion Marcel Pourbaix Award, 2017 ECS Olin Palladium Award, 2015 European Federation of Corrosion's Corrosion Medal, 2010 Institute of Corrosion UR Evans Award, and 2005 ECS Corrosion Division H. H. Uhlig Award. He is a Fellow of The Electrochemical Society, International Society of Electrochemistry, AMPP (formerly NACE/SSPC), and Chinese Society for Corrosion and Protection, and is an elected member of the European Academy. Prof. Marcus is currently Chair of the International Steering Committee for the European Conferences on Applications of Surface and Interface Analysis, Head of the EFC Paris Office, and President of the French Corrosion Society (CEFRACOR). In the past, he served as President of the European Federation of Corrosion (2008–2012) and Chair of the Gordon Research Conference on Aqueous Corrosion (2006).

Since joining ECS in 1986, Prof. Marcus has served on Society committees and as Chair of the ECS Europe Section (2020–2023) and member at large of the ECS Corrosion Division (2014–2020).

## San Francisco Section Award



**Oana Leonte** is Director of Research at Berkeley Polymer Technology. Her expertise spans a remarkable breadth of chemistry and chemical engineering, with impactful work in batteries, supercapacitors, semiconductor processing, and catalysis. Her research has consistently translated into viable industrial processes with significant economic benefits. For instance, her pioneering monopropylene glycol technology, implemented in a 12,000mt/year plant in Romania in 1978, replaced highly corrosive catalysts in a world first; that original equipment remains operational at full capacity today.

As Director of the Heterogeneous Catalysis Laboratory at the Institute of Physical Chemistry of the Romanian Academy, her leadership in palladium catalyst regeneration technology led to a dedicated plant in 1986. This innovation eliminated costly imports and saved millions of dollars until the industry's restructuring in 2000. Furthermore, her root-cause analysis and solution for Ni-$H_2$ battery failures were instrumental in returning Space Systems/Loral to profitability in the mid-1990s after years of severe financial distress.

Other career highlights include her 1995 design of a robust thin-film electrode at Pinnacle Research Institute, which enabled the production launch of a high-power, low-cost supercapacitor. Between 1996 and 1998, at EKC Technology (DuPont Electronic Materials today), she developed novel post-etch residue removers at 50 percent of the commercial cost, a breakthrough that secured critical market share during an industry-wide supply shortage. She later made vital contributions to Copper/Low-k dielectric integration at Allied Signal Honeywell from 1998 to 2000 and to core etch and cleaning technologies at Lam Research.

Dr. Leonte's exceptional contributions have been recognized with prestigious awards that include the Societatea de Chimie din România 2025 C.D. Nenițescu Medal, 2024 Romanian Society of Chemical Excellence Award for Lifetime Achievement, 2013 American Chemical Society California Section Salute to Excellence, Lam Research 2008 Vista Award, and Romanian Academy 1978 Nicolae Teclu Prize. She received her PhD in Chemical Engineering from the Politechnic University of Bucharest and has nine issued patents and four pending.

For over 30 years, she has been a pillar of The Electrochemical Society. Her dedicated service includes establishing a self-sustained ECS San Francisco Section Award, serving as ECS Dielectric Science and Technology Division Chair and as Treasurer of the ECS San Francisco Section, and on the ECS Board of Directors, and organizing more than 60 ECS symposia on advanced topics.

# Student Awards

## Battery Division Student Research Award



**Ziging Wang** is a PhD candidate in Analytical Chemistry at The University of Texas at Austin, working with Professor **C. Buddie Mullins**. During his PhD studies, he has integrated electrolyte engineering, ultramicroelectrode (UME) voltammetry, fast-scan electrochemistry, scanning electrochemical cell microscopy (SECCM), operando characterization, and theoretical frameworks such as Marcus-Hush theory to uncover how solvation structures, electric

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**Award Winners**

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double layers, charge-transfer kinetics, mass transport, and crystallography govern metal plating/stripping behavior and battery reversibility.

Ziqing received his BS in Materials Science and Engineering from Central South University. Since his sophomore year, he has focused on interfacial electrochemistry in advanced rechargeable batteries, with particular emphasis on aqueous zinc metal batteries. Ziqing has authored 24 research papers, including nine as first author, in journals such as *Angewandte Chemie*, *Advanced Materials*, and *ACS Energy Letters*. His work has been cited more than 2,800 times, with an h-index of 16. His achievements have been recognized through multiple honors, including the 2025 ECS Joseph W. Richards Summer Fellowship, CAS Future Leader TOP 100 program, UT Austin Graduate Continuing Fellowship, Graduate School Dissertation Writing Fellowship, and Allen J. Bard CEC Student Scholar Fellowship.

Ziqing joined ECS in 2023. He is also a cofounder and technical lead of StandUp Energy LLC, a startup focused on free-standing, high-energy-density electrodes for lithium-ion batteries. Outside the lab, Ziqing dedicates himself to amateur bodybuilding.

## Battery Division Student Research Award



**Xinzhe Xue** is a PhD candidate in Chemistry and Biochemistry at the University of California, Santa Cruz, working under the supervision of Prof. **Yat Li**. His research focuses on electrode/electrolyte interface, nucleation chemistry, thick electrode architectures, and advanced manufacturing for advanced and scalable energy storage devices. Through a combination of in situ/operando characterization techniques, he established how interfacial environment, redox mediation, and interface thermodynamics regulation control materials nucleation, growth, and electrochemical reversibility. His work has enabled dense, uniform, and conformal MnO2 electrodeposition at ultrahigh mass loadings and inspired new strategies for designing scalable, high-performance energy storage systems.

Xinzhe has authored 21 publications with nine as first author, in leading journals that include the *Journal of the American Chemical Society*, *Advanced Materials*, *Advanced Energy Materials*, *ACS Energy Letters*, and *Nano-Micro Letters*. His research and leadership have been recognized through multiple awards and collaborations with the Lawrence Livermore National Laboratory, Oak Ridge National Laboratory, and SLAC National Accelerator Laboratory. He was honored by the ACS Graduate Student and Postdoctoral Scholars Recognition Program (2024) for promoting mentoring, research safety, and diversity, equity, inclusion, and respect. He also received the 2026 ECS San Francisco Section Daniel Cubicciotti Student Award (Honorable Mention), and University of California Chancellor's Dissertation-Year Fellowship (2025). After completing his PhD, he plans to continue advancing electrochemical energy storage technologies through academic research.

## Canada Section Student Award



**Luma Clarindo Lopes** is a PhD candidate in Chemistry at the University of Manitoba (UM) under the supervision of Dr. **Sabine Kuss**. Her research interests lie in electroanalysis and biosensing, with a particular focus on developing innovative electrochemical approaches for antibiotic susceptibility testing. She investigated antibiotic uptake in bacterial cells using electrochemical techniques as indicators of antimicrobial susceptibility, contributing to the development of rapid and sensitive diagnostic methodologies. Her research also explores the application of single-entity electrochemistry to bacterial systems, providing new insights into antimicrobial resistance at the single-cell level.

Luma received her BSc and MSc in Chemistry from the Universidade Estadual de Ponta Grossa, where her research focused on electrode modification, nanomaterial-based electrochemical sensors, and immunosensor development. As first author, she has published original research articles and reviews in journals that include *Journal of The Electrochemical Society*, *Analytical Chemistry*, *Analysis & Sensing*, and *Talanta*. Her research has been recognized through the Falling Walls Lab Manitoba Award, 2nd International Workshop on Bioelectrochemistry Best Poster Presentation, and multiple UM graduate scholarships.

Beyond her research, Luma is passionate about mentorship, scientific communication, and leadership. She was a co-founder and former President of the ECS University of Manitoba Student Chapter, where she promoted student engagement and helped strengthen the electrochemistry community at UM. Looking ahead, she aims to develop interdisciplinary sensing technologies by integrating electrochemistry, biosensing, and microfluidics to address important challenges in healthcare and biomedical diagnostics.

## Corrosion Division Morris Cohen Graduate Student Award



**Ho Lun Chan** is an emerging materials engineer dedicated to driving innovation for today's most challenging materials problems across the aerospace, nuclear, and semiconductor domains. He is currently an Innovation Fellow at the Defense Advanced Research Projects Agency (DARPA). Dr. Chan earned his PhD in Materials Science and Engineering from the University of Virginia under the mentorship of Prof. **John Scully**, and his BS in Chemical Engineering from California State Polytechnic University, Pomona, advised by Dr. **Vilupanur Ravi**. A former NSF Graduate Research Fellow, Dr. Chan has authored approximately 25 publications and received 15 poster awards, including being a two-time recipient of ECS Z01 poster awards. His contributions have been widely recognized by major materials, corrosion, and electrochemistry societies. He joined the Society in 2019.

## Korea Section Student Award



**Youngjun Jeon** is a PhD candidate in the Department of Materials Science and Engineering at Seoul National University, where he started his graduate studies in the spring of 2021. His research under Prof. **Kisuk Kang**'s supervision focuses on the advanced synthesis and design of high-energy-density cathode materials for next-generation Li-ion batteries. He successfully synthesized 10-micrometer-scale ultra-high nickel single crystals and demonstrated a high-density electrode system. His investigation into the degradation behavior and superior battery safety characteristics of these large single crystals compared to conventional defect-rich single-crystal systems was published in *Nature Energy* and officially registered as a patent. Youngjun also conducts ongoing research to reveal fundamental crystal growth behaviors, aiming to establish universal morphology control principles for layered oxide materials.

## Pacific Northwest Section Electrochemistry Student Award

*Sponsored by Thermo Fisher Scientific*



**Minh Duong** is a PhD student in Materials Science and Engineering at the University of Washington (UW). An electrochemist and data scientist, he is broadly interested in how data can be used to accelerate battery technology development. His PhD research focuses on applying machine learning to accelerate electrolyte development for lithium-metal batteries. Motivated by the potential of machine learning to unlock new insights in materials science, he aims to enable the faster, more efficient design of energy storage systems. His research is conducted in collaboration with the Pacific Northwest National Laboratory under the supervision of Dr. **Jun Liu** and Dr. **Xia Cao** as part of the Battery500 Consortium.

Born in Vietnam, he graduated with honors from the Ho Chi Minh University of Science with a BS in Chemistry. He then pursued the Erasmus Mundus Joint MS program in Interdisciplinarity in Materials for Energy Storage and Conversion (i-MESC), studying at the Politechnika Warszawska, Université Paul Sabatier Toulouse III, and Université de Picardie Jules Verne. During the program, he also gained research experience at the Helmholtz-Institut Ulm and Umicore N.V., where he applied machine learning techniques to optimize cell performance in all-solid-state batteries.

## San Francisco Section Daniel Cubicciotti Student Award



**Siddharth Rajupet** is a fifth-year PhD student at the University of California, Berkeley, working in the Energy Conversion Group with Dr. **Adam Weber** and Prof. **Clay Radke**. His thesis explores interactions between ion-conducting polymers (ionomers) and catalyst particles in inks deposited to form fuel-cell electrodes. In particular, his work investigates the driving forces for and factors limiting the extent of ionomer adsorption to catalyst particles, which governs the ionomer distribution and structure of the final fuel-cell electrode. His research combines fundamentals of colloid science and electrochemistry to address these questions.

Sidd earned his BS and MS in Chemical Engineering from Case Western Reserve University in 2021. There he worked with Prof. **Daniel Lacks**, investigating forces governing the dynamics of fine particles adhered to surfaces, suspended in air, and dispersed in solution. He won the 2026 ECS Energy Technology Division Graduate Student Award Sponsored by BioLogic and the 2019 AIChE Student Poster Competition Award.

## San Francisco Section Daniel Cubicciotti Student Award *(Honorable Mention)*



**Jacob Florian** is a PhD candidate in Professor **Zhenan Bao**'s group at Stanford University, where he researches electrolyte decomposition and lithium metal passivation for next-generation batteries. As the lithium interface is highly reactive, Jacob utilizes advanced operando characterization, specifically dynamic electrochemical impedance spectroscopy (dEIS), to analyze interphase evolution in real time. His notable contributions include developing a highly accessible, microporous reference electrode that successfully isolates lithium-metal impedance within standard coin cells. Additionally, his mechanistic insights have challenged traditional paradigms by demonstrating that the liquid electrolyte can actively assist lithium-ion transport through the passivation layer, counter to conventional solid electrolyte models.

Jacob completed an MPhil in Physics at the University of Cambridge (2022) and a BS in Chemical Engineering at the University of Michigan (2021). A National Science Foundation Graduate Research Fellowship (2021) and Churchill Scholarship (2021) supported his undergraduate work using molecular dynamics to simulate surface reactions, a computational foundation that informs his current experimental approach. Outside the laboratory, he enjoys playing tennis, weight training, and reading.

## San Francisco Section Daniel Cubicciotti Student Award *(Honorable Mention)*



**Xinzhe Xue** is a PhD candidate in Chemistry and Biochemistry at the University of California, Santa Cruz, working under the supervision of Prof. **Yat Li**. As the recipient of the 2026 Battery Division Student Research Award, his full biography can be found under that award, above.

## Sensor Division Student Research Award



**Yingjie Hang** is an incoming Postdoctoral Researcher at Harvard Medical School. Her research focuses on developing innovative materials, devices, and strategies for point-of-care sensing and therapy guided by clinical needs. With a multidisciplinary background in chemistry, biochemistry, materials science, and chemical engineering, she is passionate about understanding the fundamental principles of light-matter and biointerfacial interactions and applying "materials-by-design" and "device-by-design" strategies to address challenges in biomedical sensing and healthcare technologies.

Dr. Hang received her PhD in Chemical Engineering from the University of Massachusetts Amherst (UMA) under the guidance of Prof. **Nianqiang Wu**. Her PhD research focused on developing plasmon-enhanced optical probes for point-of-care testing and imaging. She identified key limitations of conventional paper lateral flow strips, including limited sensitivity and sample matrix interference, and demonstrated that these challenges can be addressed by applying plasmonic principles to optical probe design and by engineering lateral flow strip architectures. This work contributes to the development of next-generation point-of-care biosensors. She has authored 21 journal publications, including six as first author, and holds four patents.

Dr. Hang joined the Society in 2022 and received ECS Travel Grants for the 243rd and 248th ECS meetings. She served as an ECS Student Ambassador at the 243rd ECS Meeting in 2023. UMA presented her with its 2025 Eldridge Outstanding Teaching Assistant Award.