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a. Professional Preparation

Nanyang Technological University, Singapore	B.A. Sc (Matl. Eng.)	1996 – 2000
Singapore-MIT Alliance, National University of Singapore	Ph.D.	2000 – 2005
Massachusetts Institute of Technology	Postdoc	2005 – 2007

b. Positions Held and Key Achievements

2026 – Now **Vice President (Industry)**, Nanyang Technological University, Singapore
Scope of Responsibility: Engaging with global industry leaders to drive cutting-edge research, facilitate technology transfer, align academic programs with real-world demands, and develop diverse talent pipelines. Starting July 1 2026.

2022 - Now **The Liew Family Professor**, Pritzker School of Molecular Engineering (PME), University of Chicago

Scope of Responsibility: Leading the energy technology and sustainability effort for the Climate and Energy Initiative – which led to a new institute for Climate and Sustainable Growth (ICSG)

Key Achievements: Launching the first industry centric consortium for the University of Chicago, Energy Transition Network (ETN).

2024 – 2026 Director, Energy Storage Research Alliance (ESRA)

Scope of Responsibility: Strategic planning of the energy storage research priority directions, bringing funding for the national laboratory in collaborations with top research universities.

Key Achievements: Leading one of the largest energy innovation hubs in the USA focusing on next generation batteries and materials for energy storage. ESRA is 62.5M\$ Innovation Hub established in 2024, funded by Department of Energy, Office of Science.

2009 – 2021 Faculty (Assistant to Full Ranked), NanoEngineering, UC San Diego

Scope of Responsibility: Leading the energy and sustainability effort and technology development for the UCSD Energy Initiative

Key Achievements: Founded the Sustainable Power and Energy Center (SPEC) in 2016, now with more than ten corporate members and have received over 5M\$ philanthropic funding and 60M\$ federal and private research funding.

2008 – 2009 Assistant Professor, Materials Science and Engineering, University of Florida

2007 – 2008 Research Scientist, Materials Sci & Eng, Massachusetts Institute of Technology

c. Selected Awards and Honors

2025, International Automotive Lithium Battery IALB Technology Award

2025, Shep Wolsky Battery Innovation Award, International Battery Seminar & Exhibition

2025, Lifetime Achievement Award, NATTBatt International Trade Association

2024, Cell Press 50 Scientists that Inspire

2024, Dresselhaus Memorial Lecture Award, International Workshop on Advanced Materials

2023, Energy Storage Materials ENSM Award, Elsevier

2023, Battery Division Research Award, Electrochemical Society (ECS)

2023, Research Excellence in Electrochemistry, American Chemical Society (ACS)

2023, Alexander M. Cruickshank (AMC) Lectureship at the Gordon Research Conference on Nanomaterials for Applications in Energy Technology

2022, Clean Energy Education and Empowerment C3E Award in Technology and Innovation

2022, Fellow of American Association for the Advancement of Science (AAAS)

2021, Elected Fellow of Materials Research Society (FMRS)

2020, Michael Faraday Medal of Royal Society of United Kingdom

2019, Chancellor's Associates Faculty Research Excellence Award

2019, International Battery Association (IBA) Research Award

2018, Elected Fellow of Electrochemical Society (FECS)

2018, Blavatnik National Awards Finalist <http://blavatnikawards.org/>

2018, American Chemical Society ACS Applied Materials & Interfaces Young Investigator Award
2018, International Coalition for Energy Storage and Innovation (ICESI) Inaugural Young Career Award
2017, IUMRS-Singapore Young Scientist Research Award
2016, Zable Endowed Chair for Energy Technologies, UC San Diego
2016, Charles W. Tobias Award, The Electrochemical Society
2015, Frontier of Innovation Award
2014, Science Award Electrochemistry by BASF and Volkswagen
2013, Chancellor's Interdisciplinary Research Award
2011, National Science Foundation (NSF) CAREER Award
2003, Graduate Student Award (Materials Research Society)
2002, Systems on Silicon Manufacturing Co. Pte. Ltd (SSMC) Award
2000, Singapore-MIT Alliance SMA Postgraduate Study Scholarship (2000-2005)
1998, Industrial Attachment Book Prize
1996, Singapore Welding Society Book Prize
1995, Ministry of Education Singapore Undergraduate Study Scholarship (1996-2000)

d. Peer-Reviewed Journal Publications (H-index 133, Clarivate Highly Cited Researcher)

1. H. Koh, J. N. Burrow, N. D'Anna, H. Zhang, T. V. Beatriceveena, J. Wang, J. Lai, Y. Chen, J. Cabana, M. K. Y. Chan, E. J. Crumlin, P. A. Fenter, T. T. Fister, D.-J. Liu, Y. S. Meng, O. Shpyrko, K. Wiaderek, K. B. Hatzell, "[Advancing Battery Manufacturing: Synchrotron Characterization for Industry.](https://doi.org/10.1021/acs.chemrev.5c00772)" **Chemical Reviews** 2026. <https://doi.org/10.1021/acs.chemrev.5c00772>.
2. S. Bai, Z. Liu, D. Cheng, B. Lu, N. J. Zaluzec, G. Raghavendran, S. Wang, T. S. Marchese, B. van Leer, L. Li, L. Jiang, A. Stokes, J. P. Cline, R. Osmundsen, M. Chen, P. Barends, A. Bright, M. Zhang, Y. S. Meng, "[Guidelines for Correlative Imaging and Analysis of Reactive Alkali Metal Battery Materials.](https://doi.org/10.1016/j.joule.2025.102311)" **Joule** 2026, 10, 102311. <https://doi.org/10.1016/j.joule.2025.102311>.
3. A. Cronk, X. Wang, J. A. S. Oh, S.-Y. Ham, S. Bai, P. Ridley, M. Chouchane, C.-J. Huang, D. Cheng, G. Deysher, H. Yang, B. Sayahpour, M. Vicencio, C. Lee, D. Lee, M.-S. Song, J. Jang, J. B. Lee, Y. S. Meng (2026). "[A Highly Utilized and Practical Lithium-Sulfur Positive Electrode Enabled in All-Solid-State Batteries.](https://doi.org/10.1038/s41467-026-69750-0)" **Nature Communications** 2026. <https://doi.org/10.1038/s41467-026-69750-0>.
4. J. Wang, J. Huang, W. Huang, H. Zhang, T. Zhou, Q. Zhu, J. Yang, T. Li, L. Ma, X. Xiao, Z. Zhuo, J. Gim, G. Yan, X. Huang, M. Li, R. Amine, J. Wen, T. Liu, Y. S. Meng, K. Amine (2026). "[Understanding the Performance Gap between Polycrystalline and Single-Crystal Nickel-Rich Layered Oxide Cathodes.](https://doi.org/10.1021/jacs.5c18922)" **Journal of the American Chemical Society** 2026, <https://doi.org/10.1021/jacs.5c18922>.
5. W. Deng; Qiu, B.; Chen, J.; Li, Z.; Tang, Y.; Liu, Z.; Y.S. Meng, "[Understanding the degradation complexity of ultrahigh-energy lithium metal batteries](https://doi.org/10.1038/s41570-026-00801-2)" **Nature Reviews Chemistry** (2026). <https://doi.org/10.1038/s41570-026-00801-2>.
6. M. Zhang; Stoychev, B. K.; Zhang, X.; Yao, W.; Wang, S.; Chouchane, M.; Park, N. R.; Huang, C.-J.; Jakhar, R.; Raghavendran, G.; Tojima, N.; Yang, T.; Gao, H.; Liu, Z.; Franco, A. A.; Shpyrko, O. G.; Y.S.Meng, "[Dry electrode architecture design to push energy density limits at the cell level](https://doi.org/10.1038/s41560-026-01981-3)". **Nature Energy** (2026). <https://doi.org/10.1038/s41560-026-01981-3>
7. R. Jakhar, S. Ghosh, A. R. Mishra, S. Pradhan, D. Sarkar, Y. B. Zheng, Z. Zhuo, T. Li, L. Ma, M. Zhang, S. P. Ong, M. Li, L. Sun, P. Thapliyal, J. Wang, A. Banerjee, Y. S. Meng, "[Engineering Na-Rich P2-Type Layered Oxides Through Li/Ti Dual Doping for Oxygen Redox Activation and Superior Structural Stability](https://doi.org/10.1038/s41560-026-01981-3)" **Adv. Energy Mater.** 2026, e06119.
8. J Park, J Jung, S Yang, D.H Kim, J.B Lee, J.A.S Oh, H Yang, M Nashiru, C.-J Huang, Y.S Meng, "[Realizing Low-Pressure Operation of All-Solid-State Lithium-Sulfur Batteries Enabled by Carbon-Coated Current Collectors](https://doi.org/10.1038/s41560-026-01981-3)", **Adv. Energy Mater.** 2026, 16, e04272.
9. J. Wang, T. Liu, W. Huang, L. Yu, H. Zhang, T. Zhou, T. Li, X. Huang, X. Xiao, L. Ma, M. V. Holt, K. Ryu, R. Amine, W. Xu, L. Li, J. Wen, Y. S. Meng, K. Amine, "[Nanosopic Strain Evolution in Single-Crystal Battery Positive Electrodes.](https://doi.org/10.1038/s41565-025-02079-9)" **Nature Nanotechnology** 2025, <https://doi.org/10.1038/s41565-025-02079-9>.
10. A. Liu, W. Li, B. Han, P. Ridley, L. Ah, B. Bhamwala, M. Vicencio, D. R. R. Kannan, V. R. Rikka, V. Premnath, J. A. Jeevarajan, W. Bao, Y. S. Meng. "[Unveiling the Graphite Electrolyte Interphase](https://doi.org/10.1038/s41565-025-02079-9)"

- [Evolution under Fast Charging Conditions in Commercial Cells](https://doi.org/10.1021/acsami.5c17267). *ACS Applied Materials & Interfaces*, 2025, <https://doi.org/10.1021/acsami.5c17267>.
11. A. Liu, W. Yao, S. Yang, D. Gonsoulin, A. Larson, A. Condon, P. M. Attia, Y. S. Meng . [Design and Performance of the BYD LFP/Graphite 4680 Cylindrical Cell](#). *Journal of The Electrochemical Society* 172, 110536, 2025.
 12. S. Muy, K. Hatzell, S. Meng, Y. Shao-Horn. [Solid-state batteries: hype, hopes, and hurdles](#). *Physics Today*, December issue 40–46. Featured Article, 2025.
 13. W.J. Yu, S. Lee, R. Shimizu, S. Joo, T.Q. Tran, W. Li, G. Zhu, Y.S. Meng, N.Q. Minh [Nano-structured thin-film reversible solid oxide cells \(TF-RSOCs\) with exceptionally high performance at low temperatures \(\$\leq 600^{\circ}\text{C}\$ \)](#), *Materials Today*, 2025 <https://doi.org/10.1016/j.mattod.2025.10.018>.
 14. J. Kim, S.-Y. Ham, C. Mish, M.-S. Song, A.T.R. Guibert, Y.S. Meng, F. Agnelli, J.B. Lee, M. Vicencio, H.A. Kim [Design parameter optimization for sulfide-based all-solid-state batteries with high energy density](#), *eTransportation*, 100507. 2025
 15. J Park, J Jung, S Yang, D.H Kim, J.B Lee, J.A.S Oh, H Yang, M Nashiru, C.-J Huang, Y.S Meng* [Realizing Low-Pressure Operation of All-Solid-State Lithium–Sulfur Batteries Enabled by Carbon-Coated Current Collectors](#), *Adv. Energy Mater.*, e04272. 2025.
 16. M. Karbak, K. Yim, Y. S. Meng, Y. Shao, W. Xu. [Weakly Solvating Electrolytes: A Solvation-Centric Paradigm for Rechargeable Metal Batteries](#). *Chem. Sci.*, 2025, DOI: 10.1039/D5SC06221G.
 17. J. A. S. Oh, Z. Yu, C.-J. Huang, P. Ridley, A. Liu, T. Zhang, B. J. Hwang, K. J. Griffith, S. P. Ong, Y. S. Meng* (2025). [Metastable Sodium closo-Hydridoborates for Low Temperature All-Solid-State Battery with Thick Cathode](#). *Joule*, 9, 102130. 2025
 18. Raghavendran, G., Liu, A., Borodin, O., Hahn, N., Leung, K., Park, N.-R., Nivarty, T., Li, M., Larson, A., Yin, Y., Zhang, M., & Meng, Y. S. (2025). [Recoverable aggregate-rich liquefied gas electrolytes for enabling high-voltage lithium metal batteries](#). *Energy & Environmental Science*, 18, 8889 – 8906. 2025
 19. Steinberg, K., Bao, W., Ryu, K., Meng, Y. S., & Gallant, B. M. (2025). [Deciphering Unresolved Materials in Quantitative Analysis of Lithium Metal Solid Electrolyte Interphases](#). *ACS Energy Letters*, 10, 4269-4276. 2025
 20. B. Sreenarayanan, C.-H. Huang, R. Shimizu, S. Suwito, S. Wang, Y. B. Zheng, C.-Y. Chang, B. Han, B. Sahoo, Y. Zhang, D. P. Meganathan, K. Nomura, B. J. Hwang, W.-N. Su, Z. Jahed, M. Zhang, E. E. Fullerton, Y. S. Meng. “ [Resistive Switching of Spinel \$\text{Li}_4\text{Ti}_5\text{O}_{12}\$ Lithium-Ion Battery Material for Neuromorphic Computing](#) ”, *ACS Appl. Eng. Mater.* Just published, 2025
 21. M. Li, S. Danitz, J. Holoubek, G. Cai, J. S. Lee, H. Zhang, W. Lu, J. Wu, X. Quinn, J. Truskier, S. Gorer, Y. S. Meng, Z. Chen. “ [Full Depth-of-Discharge Cycling in \$\text{Zn}||\text{MnO}_2\$ Batteries Enabled by Alkaline Salt-Concentrated Hydrogel Electrolyte](#) ”, *Adv. Funct. Mater.* 2508361, 2025
 22. C.-J. Huang, J. A. S. Oh, M. Vicencio, T. Hu, H. Yang, J. N. Burrow, Y.-F. Song, G.-C. Yin, P. Shevchenko, K. M. Wiaderek, B. J. Hwang, Y. S. Meng. “ [X-ray Micro-Computed Tomography for Structural Analysis of All-Solid-State Battery at Pouch Cell Level](#) ”, *ACS Energy Lett.* 10, 3459-3470 2025
 23. D. J. Kautz, X. Cao, P. Gao, S. Feng, Q. Zhao, S. Parab, Y. Xu, J. P. Quinn, M. M. Rahman, S. Tan, X. Zhang, S. Ketabi, A. Nazir, J. Wang, F. Dai, S. Wang, D. Lu, E. Hu, Y. S. Meng, C. Wang, J. Liu, J.-G. Zhang, W. Xu. “ [Designing Moderately-Solvating Electrolytes for High-Performance Lithium–Sulfur Batteries](#) ”, *Adv. Mater.* 2503365, 2025
 24. H. Zhang, Y. Yu, D. Xu, M. Zhang, C.-J. Huang, J. Wang, H. Liu, F. Yang, M. Li, D.-J. Liu, X. Lu, K. Xu, Y. S. Meng. “ [Electrodepositing Textured Sn Film as a Highly Reversible Anode for Aqueous Batteries](#) ”, *J. Am. Chem. Soc.* 2025.
 25. B. Qiu, Y. Zhou, H. Liang, M. Zhang, K. Gu, T. Zeng, Z. Zhou, W. Wen, P. Miao, L. He, Y. Xiao, S. Burke, Z. Liu, Y. S. Meng “ [Negative thermal expansion and oxygen-redox electrochemistry](#) ”, *Nature* 640, 941-946 2025
 26. G. Raghavendran, B. Han, F. Adekogbe, S. Bai, B. Lu, W. Wu, M. Zhang, Y. S. Meng “ [Deep learning assisted high-resolution microscopy image processing for phase segmentation in functional composite materials](#) ”, *J. Microsc.* 1–16 2025
 27. H. Zhang, D.-J. Liu, K. Xu, Y. S. Meng “ [Challenges and Opportunities for Rechargeable Aqueous Sn Metal Batteries](#) ”, *Adv. Mater.* 202417757 2025

28. M. Zhang, K. Tantratian, S.-Y. Ham, Z. Wang, M. Chouchane, R. Shimizu, S. Bai, H. Yang, Z. Liu, L. Li, A. Avishai, L. Chen, Y. S. Meng, "[Grain selection growth of soft metal in electrochemical processes](#)", *Joule* 9, 101847 2025
29. Y. Zhang, W. Bao, E. Jeffs, B. Liu, B. Han, W. Mai, X. Li, W. Li, Y. Xu, B. Bhamwala, A. Liu, L. Ah, K. Ryu, Y.S. Meng, H. Gan, "[Unveiling the Impacts of Charge/Discharge Rate on the Cycling Performance of Li-Metal Batteries](#)", *ACS Energy Lett.* 10, 872-880 2025
30. Y. Yin, J. Holoubek, K. Kim, A. Liu, B. Bhamwala, S. Wang, B. Lu, K. Yu, H. Gao, M. Li, G. Raghavendran, G. Cai, W. Li, P. Liu, Y. S. Meng, Z. Chen, "[Coulombic Condensation of Liquefied Gas Electrolytes for Li Metal Batteries at Ambient Pressure](#)", *Angew. Chem. Int. Ed.* 2024
31. J. Xiao, N. Adelstein, Y. Bi, W. Bian, J. Cabana, C.L. Cobb, Y. Cui, S.J. Dillon, M.M. Doeff, S.M. Islam, K. Leung, M. Li, F. Lin, J. Liu, H. Luo, A.C. Marschilok, Y.S. Meng, Y. Qi, R. Sahore, K.G. Sprenger, R.C. Tenent, M.F. Toney, W. Tong, L.F. Wan, C. Wang, S.E. Weitzner, B. Wu, Y. Xu "[Assessing cathode-electrolyte interphases in batteries](#)", *Nature Energy* 2024.
32. N.R. Park, M. Zhang, B. Han, W. Li, K. Qian, H. Nguyen, S. Kumakura, Y.S. Meng "[Understanding Boron Chemistry as the Surface Modification and Electrolyte Additive for Co-Free Lithium-Rich Layered Oxide](#)", *Adv. Energy Mater.* 2401968 2024. <https://doi.org/10.1002/aenm.202401968>
33. S.H. Kim, Mi. Kim, I. Kristanton, W.Kim, K. Ryu, H. Kim, K.Y. Ma, C.Heo, H. Kim, S.K. Kwak, Y.S. Meng, H.S. Shin, S. Lee "[Horizontal Lithium Electrodeposition on Atomically Polarized Monolayer Hexagonal Boron Nitride](#)", *ACS Nano*, 2024. <https://doi.org/10.1021/acsnano.4c05208>
34. N.Ding, S.W.Chien, T.L.D.Tam, X.Li, G.Wu, W.J.Lee, S.Y.Chiam, Y.S.Meng, D.W.Fam "[Revealing Phase Transitions in Poly\(Ethylene Oxide\)-Based Electrolyte for Room-Temperature Solid-State Batteries](#)", *Adv. Energy Mater.* 2402986, 2024. <https://doi.org/10.1002/aenm.202402986>
35. S. Burke, M. Zhang, J.R. Croy, Y.S. Meng "[Entropic stabilization in lithium-rich transition metal layered oxides – A perspective](#)", *Next Mater.* 7, 10033, 2025. <https://doi.org/10.1016/j.nxmater.2024.100332>
36. C.G-Mouravieff, W. Bao, D.A. Steingart, Y.S. Meng "[Non-destructive characterization techniques for battery performance and life-cycle assessment](#)", *Nat. Rev. Electr. Eng.* 1, 547-558, 2024. <https://doi.org/10.1038/s44287-024-00069-y>
37. G. Deysher, J.A.S. Oh, Y. Chen, B. Sayahpour, S. Ham, D. Cheng, P. Ridley, A. Cronk, S.W. Lin, K. Qian, L.H.B. Nguyen, J. Jang, Y.S. Meng "[Design principles for enabling an anode-free sodium all-solid-state battery](#)", *Nat. Energy* 2024. <https://doi.org/10.1038/s41560-024-01569-9>
38. M. Alabdali, F.M. Zanotto, M. Chouchane, A.C. Ngandjong, V. Viallet, V. Seznec, Y.S. Meng, A.A. Franco "[Understanding Mechanical Stresses Upon Solid-State Battery Electrode Cycling Using Discrete Element Method](#)", *Energy Storage Mater.* 70, 103527, 2024. <https://doi.org/10.1016/j.ensm.2024.103527>
39. A.T.R. Guibert, A. Cronk, M. Bookwala, M.R. Mehta, Y.S. Meng, J.W. Lawson, H.A. Kim "[Thermo-electrochemical level-set topology optimization of a heat exchanger for lithium-ion batteries for electric vertical take-off and landing vehicles](#)", *Appl. Therm. Eng.* 250, 123461, 2024. <https://doi.org/10.1016/j.applthermaleng.2024.123461>
40. C.I.J. Ip, Q. Gao, K.D. Nguyen, C. Yan, G. Yan, E. Hoenig, T.S. Marchese, M. Zhang, W. Lee, H. Rokni, Y.S. Meng, C. Liu, S. Yang "[Preservation of Topological Surface States in Millimeter-Scale Transferred Membranes](#)", *Nano Lett.* 24, 7557-7563, 2024. <https://doi.org/10.1021/acs.nanolett.4c00008>
41. W. Bao, W. Yao, Y. Li, B. Sayahpour, B. Han, G. Raghavendran, R. Shimizu, A. Cronk, M. Zhang, W. Li and Y. S. Meng "[Insights into Lithium Inventory Quantification of LiNi_{0.5}Mn_{1.5}O₄-Graphite Full Cells](#)", *Energy Environ. Sci.* 17, 4263 2024. <https://doi.org/10.1039/d4ee00842a>
42. Y. Chen, J. Jang, J.A. Sam Oh, S. Ham, H. Yang, D. Lee, M. Vicencio, J.B. Lee, D.H.S. Tan, M. Chouchane, A. Cronk, M. Song, Y. Yin, J. Qian, Z. Chen, Y.S. Meng "[Enabling uniform and accurate control of cycling pressure for all-solid-state batteries](#)", *Adv. Energy Mater.* 2304327 2024. <https://doi.org/10.1002/aenm.202304327>
43. W. Yao, Y. Li, M. Olguinb, S. Bai, M. A. Schroeder, W. Li, A. Liu, N.R. Park, B. Bhamwala, B. Sayahpour, G. Raghavendran, O. Borodin, M. Zhang, and Y.S. Meng "[Stabilizing high temperature operation and calendar life of LiNi_{0.5}Mn_{1.5}O₄](#)", *Next Energy*, 4, 100136, 2024. <https://doi.org/10.1016/j.nxener.2024.100136>

44. K. Hatzell, W. Chang, W. Bao, M. Cai, T. Glossmann, S. Kalnaus, B. Liaw, Y.S. Meng, R. Mohtadi, and Y. Wang, “ [Aligning lithium metal battery research and development across academia and industry](https://doi.org/10.1016/j.joule.2024.04.007)”, *Joule*, 8, 1550-1555, 2024. <https://doi.org/10.1016/j.joule.2024.04.007>
45. S. Ham, E. Sebt, A. Cronk, T. Pennebaker, G. Deysher, Y.T. Chen, J.A. Sam Oh, J.B. Lee, M. S. Song, P. Ridley, D. H. S. Tan, R. J. Clément, J. Jang, and Y. S. Meng, “ *Overcoming low initial coulombic efficiencies of Si anodes through prelithiation in all-solid-state batteries* ”, **Nature Communications**, 15, 2991, 2024. <https://doi.org/10.1038/s41467-024-47352-y>
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47. M. Chouchane, W. Yao, A. Cronk, M. Zhang, and Y.S. Meng, “ *Improved Rate Capability for Dry Thick Electrodes through Finite Elements Method and Machine Learning Coupling* ”, **ACS Energy Lett.**, 9, 1480–1486, March 2024. <https://doi.org/10.1021/acsenerylett.4c00203>
48. P. Ridley, L.H.B. Nguyen, E. Sebt, B. Han, G. Duong, Y.T. Chen, B. Sayahpour, A. Cronk, G. Deysher, S.Y. Ham, J.A.Sam Oh, E.A. Wu, D.H.S. Tan, J.M. Doux, R. Clément, J. Jang, Y.S. Meng, “ *Amorphous and nanocrystalline halide solid electrolytes with enhanced sodium-ion conductivity* ”, **Matter**, 7, 1-15, 2024. <https://doi.org/10.1016/j.matt.2023.12.028>
49. B. Sayahpour, W. Li, S. Bai, B. Lu, B. Han, Y.T. Chen, G. Deysher, S. Parab, P. Ridley, G. Raghavendran, L.H.B. Nguyen, M. Zhang and Y.S. Meng, “ *Quantitative analysis of sodium metal deposition and interphase in Na metal batteries* ”, **Energy & Environmental Science**, 2024, <https://doi.org/10.1039/d3ee03141a>
50. R. Shimizu, D. Cheng, G. Zhu, B. Han, T. S. Marchese, R. Burger, M. Xu, X. Pan, M. Zhang, and Y. S. Meng, “ *Elucidating dynamic conductive state changes in amorphous lithium lanthanum titanate for resistive switching devices* ”, **Next Materials**, 2, 100102, 2024. <https://doi.org/10.1016/j.nxmte.2023.100102>
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52. N. Park, Y. Li, W. Yao, M. Zhang, B. Han, C. Mejia, B. Sayahpour, R. Shimizu, B. Bhamwala, B. Dang, S. Kumakura, W. Li, and Y.S. Meng, “ *Understanding the Role of Lithium Borate as the Surface Coating on High Voltage Single Crystal $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$* ”, **Advanced Functional Materials**, 2312091, 2023, <https://doi.org/10.1002/adfm.202312091>
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54. D. Cheng, K. Tran, S. Rao, Z. Wang, R. van der Linde, S. Pirzada, H. Yang, A. Yan, A. Kamath, and Y. S. Meng, “ *Manufacturing Scale-Up of Anodeless Solid-State Lithium Thin-Film Batteries for High Volumetric Energy Density Applications*”, **ACS Energy Letters**, 8, 11, 4768–4774, 2023. <https://doi.org/10.1021/acsenerylett.3c01839>
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e. Issued Patents and Book Chapters

1. Y. S. Meng, F. So, J. Xue, J. Reynolds, K. R. Zawoy, "Integrated PV/Battery/OLED Lighting Module (SoLiOled)," US/183359, 2012. 2015-02-10 **Application granted**.
2. D. Steingart, B. Hertzberg, M. Chamoun, G. Davies and Y.S. Meng, "Alkaline Electrolyte Useful for a Rechargeable Alkaline Electrochemical Cell", PCT/US/25989, 2018 Publication of US10535901B2 2020-01-14 **Application granted**.
3. J. Wang, R. Kumar, Y.S. Meng, J.W. Shin and L. Yin, "Hyper-elastic Binder for Printed, Stretchable Electronics", US/15/820, 284 and PCT/US62860, 2017, **Exclusively Licensed by Riot Energy**. US20220071003A1, 2023-06-13 **Application granted**
4. Y.S. Meng, M. Zhang, H. Liu, D. Qian and C. Fang, "Lithium-Excess Cathode Material and Co-precipitation Formation Method", US10978709B2 2021-04-13 **Application granted**.
5. C. Rustomji, Y.S. Meng and Y. Yang, "Electrochemical Energy Storage Device", PCT/US29821, 2017 **Exclusively licensed by South 8 Technologies**. US10998143B2, 2021-05-04 **Application granted**
5. Zhuoying Zhu, Shyue Ping Ong, Erik Wu, Han Nguyen, Ying Shirley Meng and Iek Heng Chu, "Lithium and Sodium Superionic Conductors", US/059340, 2017, US11769908B2, 2023-09-26 **Application granted**
6. Daniel Davies, Cyrus Sam Rustomji, Yangyuchen Yang, Jungwoo Lee and Ying Shirley Meng "Electrochemical cell cap", **Exclusively licensed by South 8 Technologies** US11342615B2, 2022-05-24 **Application granted**.
7. Cyrus Sam Rustomji, Yangyuchen Yang, Daniel Davies, Jungwoo Lee and Ying Shirley Meng "Chemical formulations for electrochemical device" International App. PCT/US19/32414 May 2019 **Exclusively licensed by South 8 Technologies** 2024-07-02 **Application granted**
8. Chi Ho Jo, Wang Mo Jung, Hyeseung Chung and Ying Shirley Meng "Positive electrode active material and method for preparing the same", US12315922B2, 2025-05-27 **Application granted**.
9. Chi Ho Jo, Wang Mo Jung, Hyuk In Moon and Ying Shirley Meng "Sulfide Base All-Solid-State Battery Including Surface Heat-Treated Positive Electrode Active Material and Method of Manufacturing the Same", US11522169B2, 2022-12-06 **Application granted**

10. Chi Ho Jo, Wang Mo Jung, Dong Hun Lee, Ying Shirley Meng, Abhik Banerjee and Minghao Zhang "Positive electrode active material particle for sulfide-based all-solid-state batteries, 2023-02-07 Publication of US11575116B2, 2023-02-07 **Application granted**
11. Jeongbeom Lee, Min Sang Song, Ying Shirley Meng and So-Yeon Ham, "All-solid-state battery comprising a pre-lithiated silicon negative electrode", US12283662B2 2025-04-22 **Application granted**
12. Ying Shirley Meng, Diyi Cheng and Thomas A. Wynn "Free-standing lithium phosphorus oxynitride thin films and methods of their manufacture", US12188116B2, 2025-01-07 **Application granted**
13. Ying Shirley Meng, Jonathan D Scharf, Joseph Wang, Lu Yin "Chemically resistant fluoroelastomer binder for flexible, printed electrochemical systems" 63/066,609;PCT/US21/46179, **Exclusively licensed by Riot Energy**. 2024-01-11 Publication of US20240014397A1
14. Zheng Chen, Darren Huan Shen Tan, Abhik Banerjee and Ying Shirley Meng "Recycling all solid state battery technology" Pub. No.: US 2023/0014961 A1. 2023-01-19 Publication of US20230014961A1
15. Ying Shirley Meng, Dennis J. Kountz, Benjamin Gould, Weikang Li, Allison Sichler, Crystal K. Waters, Weiliang Yao and Minghao Zhang "Cathodes for high voltage lithium-ion secondary battery and dry method for manufacture of same" 2024-11-14 Publication of US20240379938A1
16. Darren H.S. Tan, Zheng Chen, Ying Shirley Meng, Chi Ho Jo, Wang Mo Jung "Solid electrolyte film for sulfide-based all-solid-state battery batteries" 2023-10-19 Publication of US20230335708A1 (Pending)
17. Jeongbeom Lee, Min Sang Song, Ying Shirley Meng and Ashley Cronk, "Electrode composite materials, electrodes comprising same, and all solid state batteries comprising same, and methods of making same" 2025-08-21 Publication of US20250266464A1
18. Jeongbeom Lee, Min-Sang Song, Yu-Ting Chen and Ying Shirley Meng" Method of controlling cycling pressure of secondary battery", 2025-05-01 Publication of US20250140894A1
19. Jeong-Beom Lee, Hye-Ri Jung, Hyea-Eun Han, Hoe-Jin Hah, Sung-rok Bang, Ying Shirley Meng and Huan Shen Darren Tan, "All-solid-state battery comprising silicon (si) as anode active material", Pub. No.: US 2023/0127602 A1, Pub. Date: Apr. 27, 2023. **Exclusively licensed by LG Energy Solution**.
20. Grayson Brouse Deysher, Ying Shirley Meng "Anode-free sodium all-solid-state battery", 2025-04-24 Publication of WO2025085362A1 PCT.
21. Jung Pil Lee, Jeongbeom Lee, Min Sang Song, Ying Shirley Meng, Zheng Chen and Yu-Ting Chen, "Method for renewing or recovering performance of halide-based solid electrolyte", 2023-09-05 filing and 2025-02-13 Publication of US20250055023A1
22. Shinichi Kumakura, Ying Shirley Meng, Na-Ri Park, Minghao Zhang and Weikang Li, "Method for manufacturing a boron treated positive electrode active material", 2025-03-13 Publication of WO2025051801A1
23. Ying Shirley Meng, Yijie Yin, Yangyuchen Yang, Matthew Mayer, Weikang Li, Ganesh Raghavendran, Zheng Chen, "Recycling and recovery of used liquefied gas electrolyte and battery salt, and compositions of fire-extinguishing electrolytes for batteries", 2023-03-06 filed, 2025-06-12 Publication of US20250192258A1
24. A chapter in Handbook of Solid-State Batteries 2nd Edition, Edited by: Nancy J Dudney, William C West and Jagjit Nanda (World Scientific Publishing)
25. A chapter in Handbook of Materials Modeling-Battery Electrodes, Electrolytes, and Their Interfaces, Edited by: Wanda Andreoni and Sidney Yip (Springer)

f. Contributions to the Field

President, Executive Board Member and Treasurer of International Battery Association (IBA), 2017 – now

Upstate New York Energy Storage Engine, Advisory Board, 2024 – now

Presidential Advisory Board for Kavli Foundation, Member, 2022 – now

Shell Science Council, Member, 2019 – now

Section Head, Watt (Journal launched in 2025) Editorial Board, 2025 - now

Board of Directors Advano.ai. 2022- 2026

National Materials and Manufacturing Board, National Academy of Science, Engineering and Medicine, Member, 2022- 2025

BESSY III upgrade technical advisory board, Member, 2022-2025

Basic Energy Science Advisory Board (BESAC) for Department of Energy, 2020 – 2024

Inaugural Director of Institute for Materials Discovery and Design (<https://imdd.ucsd.edu/>) a joint initiative of the Jacobs School of Engineering and Division of Physical Sciences at the University of California San Diego. The Institute's unique approach will be to apply data analytics and machine learning together with rapid materials synthesis and multi-scale characterization in order to accelerate the discovery, design, synthesis and evaluation of novel functional materials.

Founding Director of Sustainable Power and Energy Center (<http://spec.ucsd.edu>) The SPEC consists of more than fifteen faculty members from interdisciplinary fields, who all focus on making breakthroughs in distributed energy generation, storage and the accompanying integration-management systems.

Editor in Chief – MRS Energy & Sustainability, Energy journal of MRS 2019 – 2024

Technical Editor– Journal of Power Sources (IF 6.7) 2015 to 2019

Associate Editor–NPG Asia Materials (IF 9.0) 2012-2015

Editorial Board Member - Ionics (IF 1.7) Sustainable Energy and Fuels (new journal 2016), Advanced Energy Materials (IF 21.8), Chemical Society Reviews (IF 40.18) and Chemical Reviews (IF 47.9)

Guest Editor – First focused issue for *J. Electrochem. Soc. (JES)* on “Intercalation Compounds” (co-editor, Stanley Whittingham)

Guest Editor – Focused issue for MRS Bulletin on “Frontier in In Situ TEM” (co-editors, Haimei Zheng and Yimei Zhu)

Panel reviewer for National Science Foundation and Department of Energy, USA and various overseas funding agencies including Hong Kong Council of Research, German Research Foundation, Israel Science Foundation and Canada Foundation for Innovation, Swiss National Science Foundation, Singapore A*STAR

Advisory Board Member for Energy Quarterly EQ, MRS, 2017 – 2021

Member-at-large (Elected) for Battery Division of the Electrochemical Society (>1500 members), USA, 2010-2012

Treasurer (Elected) for Battery Division of the Electrochemical Society, USA, 2014-2016. Successfully raised funding for KM Abraham Student Travel Awards and MTI Postdoc Research Awards.

Secretary (Elected) for Battery Division of the Electrochemical Society, USA, 2016 – 2018

Vice Chair (Elected) for Battery Division of the Electrochemical Society, USA, 2018 – 2020.

Successfully established NeWare Young Investigator Awards.

Chair for Battery Division of the Electrochemical Society, USA, 2020 - 2022

Lead Organizer –

- Symposium A07 “From Materials Genome to Autonomous Laboratory: In Honor of Gerbrand Ceder”, Electrochemical Society, ECS, Chicago, Oct. 12-15, 2025.
- Symposium EN08 “Materials Design and Discovery for Next-Generation Energy Storage Systems”, 2024 Fall Materials Research Society MRS, Boston, MA, December 1-6th, 2024.
- NSF Workshop on Future Instrumentation, David Rubenstein Forum, Chicago, Nov 7-8, 2022.
- Chairperson for International Battery Association IBA2019 <http://iba-2019.org/> Annual Meeting, La Jolla, March 3-8th, 2019.
- Symposium “Lithium Ion Batteries”, Electrochemical Society (ECS) 234th Meeting, Cancun Mexico, October 1-5th, 2018.
- US China Electric Vehicle Battery Technology Workshop, La Jolla, CA, April 8-10th, 2018, 2018.
- Symposium “Lithium Ion Batteries”, Electrochemical Society (ECS) 232nd Meeting, National Harbor MD, October 1-5th, 2017.
- Ceramics for Energy Workshop, Sponsored by National Science Foundation, San Diego, June 3-4th, 2016.
- Symposium “High-Energy Li-Ion Intercalation Materials”, Electrochemical Society (ECS) 228th Meeting, Phoenix AZ, Oct 11-15, 2015.
- Symposium “Lithium Ion Batteries”, Electrochemical Society (ECS) Fall 226th Meeting, Cancun, Mexico, October 6-10th, 2014.

- Symposium “Batteries and Fuel Cell Technologies: Challenges and Solutions Towards Global Stewardships” 248th American Chemical Society ACS National Meeting and Exhibition, San Francisco, USA, August 10-14th, 2014.
- Symposium N “Frontier in Energy Storage”, Materials Research Society (MRS), San Francisco, USA, April 20-25th, 2014.
- Symposium on “Computation Science on Battery Materials”, Electrochemical Society (ECS) Fall 224th meeting, San Francisco, USA, October 27-November 1, 2013.
- Symposium on “Design and Modeling of Battery Materials”, Electrochemical Society (ECS) Spring 223rd meeting, Toronto, Canada, May 12-14, 2013.
- Advances in Batteries, American Chemical Society (ACS) Fall Meeting, Philadelphia, August 23-24th, 2012.
- Intercalation Compounds Symposium B4, Electrochemical Society (ECS) Fall 222nd meeting, Honolulu, October 7-12, 2012.
- Functional Ceramics for Energy Storage & Conversion for the Electronic Materials and Applications (EMA) 2011 Conference, Orlando January 19-21, 2011.
- International Lecture Series on Materials Design and Development for Energy Storage and Conversion, Taipei May 15-18, 2006

Co-Organizer – Symposium EN07, Materials Research Society Meeting (MRS), April 2020. Symposium A03 Li ion Battery, 233rd Electrochemical Society Meeting (ECS) Seattle, May 2018. Symposium S6 for 37th International Conference and Expo on Advanced Ceramics and Composites (ICACC), Daytona, Jan 27- Feb 1, 2013. Symposium B6 for Electrochemical Society Meeting (ECS), Boston, October 9-14th, 2011. Symposium L for Materials Research Society Meeting (MRS), April 25-29th, 2011. Symposium B8 for Electrochemical Society Meeting (ECS), Las Vegas, October 11-14th, 2010. Functional Ceramics for Energy Storage & Conversion (Symposium 5) for the Electronic Materials and Applications (EMA) Conference, Orlando January 20-22nd, 2010.

Faculty Advisor – Society for Green Mobility, University of Florida, 2008-2009

Founding Faculty Advisor – ECS Student Chapter, UCSD, 2014 – 2022 (founded in June 2014)

h. Media Coverage

Lianhe Zaobao, “Morning Person” Special Interview with Shirley Meng

<https://www.zaobao.com.sg/news/singapore/story20251012-7631379>

Big Brain, The Race To Build A Better Battery: Podcast with Professor Shirley Meng

<https://youtu.be/oAKphNe6cjg?si=OsLN1k-NJyIQNN9o>

Science Friday, National Public Radio, July 2024

<https://www.sciencefriday.com/person/shirley-meng/>

TedxChicago Talk, 2023 (TED release on Earth Day April 22, 2024)

<https://youtu.be/lfOJkoZke30?si=qIs2bXADINW8Ryz8>

PBS Energy Switch “The Future of Batteries” - April 19th, 2023

<https://nhpbs.org/schedule/summary.aspx?progId=EnergySwitch208>

ABC News (The Future of Cars) – February 15th, 2021

<https://www.abc.net.au/radionational/programs/futuretense/hype-versus-reality-future-of-cars-v1/13113238>

UCSD News (NASA Grant) – February 12th, 2021

<https://ucsdnews.ucsd.edu/pressrelease/engineers-earn-nasa-grant-to-enable-flying-taxis>

Science Daily (flexible, rechargeable silver oxide-zinc battery) – December 7th, 2020

<https://www.sciencedaily.com/releases/2020/12/201207112246.htm>

Reuters (Commentary on Tesla) – September 23rd, 2020

<https://www.reuters.com/article/us-tesla-battery-factbox/tesla-could-struggle-to-implement-some-of-its-battery-advances-experts-say-idINKCN26E3J4>

Advanced Science News Interview – September 8th, 2020

<https://www.advancedsciencenews.com/shirley-meng-this-is-materials-science-it-is-the-bread-and-butter-of-our-work/>

AZO Materials (The Role of Electron Microscopy in Battery Research) – September 3rd, 2020

<https://www.azom.com/article.aspx?ArticleID=19559>

The Driven (Tesla & glassy metal battery research) – July 7th, 2020

<https://thedrive.io/2020/07/28/tesla-could-reap-benefits-of-truly-exciting-glassy-metal-battery-research/>

MRS Energy & Sustainability – December 5th, 2019

<https://www.youtube.com/watch?v=fcgxr2fmb3M>

ECS Interview (Shirley Meng: Becoming an Engineer) – February 28th, 2019

<https://www.electrochem.org/ecs-blog/shirley-meng-becoming-an-engineer/>

Green Connections Radio (Eco-Battery Technologies) – October 14th, 2017

<http://greenconnectionsradio.com/eco-battery-technologies-shirley-meng-u-c-san-diego-sustainable-power-energy-center/>

Qualcomm (Inside Innovation: The Global Race for Better Batteries) – March 2nd, 2017

<https://www.youtube.com/watch?v=6WSwyBs0axc&feature=youtu.be>

Empowered Series Blog

<https://www.empoweredtheseries.com/shirley-meng>

Rebellion Research Interview

<https://www.rebellionresearch.com/blog/the-future-of-batteries-electric-cars-and-sustainable-energy-a>

About Zero Carbon Future

<https://www.universityofcalifornia.edu/news/achieving-zero-carbon-future>

About New Research Direction

<https://www.inverse.com/article/51558-could-the-future-be-powered-by-salt-this-researcher-thinks-it-s-possible>

<https://www.sciencedaily.com/releases/2017/06/170615142736.htm>

<https://www.sciencedaily.com/releases/2016/07/160706175335.htm>

http://jacobsschool.ucsd.edu/news/news_releases/release.sfe?id=2042

https://www.electrochem.org/the-future-of-batteries/?utm_source=Informz&utm_medium=Email&utm_campaign=ECS+Website

https://www.electrochem.org/the-future-of-batteries/?utm_source=Informz&utm_medium=Email&utm_campaign=ECS+Website

About SPEC (Sustainable Power and Energy Center)

http://jacobsschool.ucsd.edu/news/news_releases/release.sfe?id=1998

<http://www.kpbs.org/news/2015/oct/15/san-diego-researchers-push-build-better-batteries/>

<http://ucsdnews.ucsd.edu/pressrelease/uc-san-diego-part-of-new-doe-consortium-to-revolutionize-electric-car-batteries>

Guest appearance on NOVA documentary Aired February 1, 2017 on PBS

<http://www.pbs.org/wgbh/nova/tech/super-battery.html>

Sodium Ion Batteries – funded by NSF

<https://www.inverse.com/article/51558-could-the-future-be-powered-by-salt-this-researcher-thinks-it-s-possible>

Times magazine

<https://time.com/4970269/batteries-next-target-china-clean-energy-conquest/>

Physics today

<https://physicstoday.scitation.org/doi/10.1063/PT.3.4359?af=R&feed=most-recent>

Reuters

<https://www.reuters.com/business/autos-transportation/musks-plan-tesla-built-batteries-has-an-acceleration-challenge-2022-03-11/>

<https://www.reuters.com/business/autos-transportation/exclusive-tesla-supplier-panasonic-eyes-20-jump-battery-density-by-2030-2022-07-13/>

<https://www.reuters.com/business/autos-transportation/ev-batteries-lithium-iron-phosphate-narrows-gap-with-nickel-cobalt-2023-06-22/>

i. **Courses taught and curriculum development**

- Thermodynamics of Materials – Nano148 (undergrad)

- Advanced Characterization for Nanosystems – Nano111 (undergrad) CENG230 (graduate)
- Energy Storage and Conversion – Nano 164 (undergrad) Nano261 (graduate)

Nano 148, Nano111, CENG230, NANO164 and NANO261 curriculum were all developed by Y. Shirley Meng as NanoEngineering was a newly established department in 2010.

- Planned New Course – Energy Matters – From Mine to Line for Freshmen 2026 at U Chicago

j. **Current graduate students (20), postdocs (8) and project scientists (3) under supervision:**
<https://lescmeng.ai/people/>

k. **Previous Ph.D. students graduated (50):**

1. Dr. Christopher Fell (Senior Engineer, Tesla Inc. USA)
2. Dr. Bo Xu (Data Scientist, USA)
3. Dr. Tim Yang (Engineer, TSMC, Taiwan)
4. Dr. Daniel Dae Hoe Lee (Manager, NorthVolt, Norway)
5. Dr. Haodong Liu (CTO, Tyfast, USA)
6. Dr. Judith Alvarado (Group leader, Rivian, USA)
7. Dr. Jing Xu (Group leader, Apple Inc., USA)
8. Dr. Minghao Zhang (Research Prof., U. of Chicago, USA)
9. Dr. Danna Qian (Scientist, Tesla Inc. USA)
10. Dr. Chuze Ma (Senior Scientists, Wildcat Technologies, USA)
11. Dr. Joon Kyo (Scientist, LG Chem, South Korea)
12. Dr. Michael Verde (Engineer, Trojan Battery, USA)
13. Dr. Chengcheng Fang (Assist. Prof, Michigan State University, USA)
14. Dr. Han Nguyen (Engineer, Wildcat, USA)
15. Dr. Shen Wang (Project Scientist, UCSD, USA)
16. Dr. Chloe Yoon (Scientist, Apple Inc. USA)
17. Dr. Yangyuchen Yang (Scientist, Wattlab, China)
18. Dr. Ziyang Wang (Engineer, Tesla Inc, USA)
19. Dr. Jae Wook Shin (Engineer, Hyundai, South Korea)
20. Dr. Haelie Chung (Engineer, Quantumscape, USA)
21. Dr. Andrew Ulvestad (Senior Engineer, Tesla Inc. USA)
22. Dr. Hyuman Cho (Engineer, Startup, Switzerland)
23. Dr. Daniel Davis (Engineer, Rivian, USA)
24. Dr. Pritesh Parikh (Scientist, Lamb Research, USA)
25. Dr. Jungwoo Lee (CTO, South 8 Technologies, USA)
26. Dr. Cyrus Rustmoji (CEO, South 8 Technologies, USA)
27. Dr. Hayley Hirsh (Engineer, Exponent, USA)
28. Dr. Thomas Wynn (Scientist, Rivian, USA)
29. Dr. Darren Tan (CEO, Unigrid, USA)
30. Dr. Erik Wu (CTO, Unigrid, USA)
31. Dr. Bingyu Lu (Engineer, Unigrid, USA)
32. Dr. Baharak Sayapour (Engineer, Amazon, USA)
33. Dr. Diyi "Dylan" Cheng (Postdoc, LBNL, USA)
34. Dr. Yixuan Li (Engineer, Tesla, USA)
35. Dr. Yijie "Jackie" Yin (Scientist, SolidEnergySystem, USA)
36. Dr. Xueying Li Quinn (Scientist, Honeywell, USA)
37. Dr. Jonathan Scharf (CEO, SkyTera, USA)
38. Dr. Ryosuke Shimizu (Engineer, 24M, USA)
39. Dr. Yuting Cheng (Scientist, Ampcera, USA)
40. Dr. Weiliang Yao (Scientist, 21 Labs, China)
41. Dr. So Yeon Ham (Senior Scientist, UNIGRID, USA)
42. Dr. Grayson Deysher (Postdoc, UC San Diego, USA)
43. Dr. Ashley Cronk (Engineering Consultant, USA)
44. Dr. Na Ri Park (Group Leader, LG Chem, South Korea)

45. Dr. Philip Ridley (DOE, USA)
46. Dr. Bhagath Sreenarayanan (Scientist, Lam Research, USA)
47. Dr. Jing Wang (Postdoc, UChicago, USA)
48. Dr. Saurabh Parab (Scientist, Elevated Materials Inc. USA)
49. Dr. Haozhe Zhang (Postdoc, Argonne National Lab, USA)
50. Dr. Ganesh Raghavendran (Scientist, Elevated Materials Inc. USA)

Female students - 31% of All PhDs
90% of the PhDs stay in USA for their professional career.

Previous postdocs and visiting scholars mentored

1. Dr. Dan Gostovic (Private industry, USA)
2. Dr. Thomas Yersak (Manager, General Motors, USA)
3. Dr. Mahsa Sina (Scientist, Intel, USA)
4. Dr. Damodharan Santhanagopalan (Professor, Amrita Center for Nanosciences and Molecular Medicine, India)
5. Dr. Young-Sang Yu (Professor, SNU, South Korea)
6. Dr. Cyrus Rustomji (CEO, South 8 Technologies, USA)
7. Dr. Kyler Carroll (Senior Manager, Rivian, USA)
8. Dr. Sunny Hy (Senior Manager, Tesla Inc. USA)
9. Dr. Xuefeng Wang (Assoc. Prof. IOP, China)
10. Dr. Ahbik Banerjee (Director for Energy Storage, CREST, India)
11. Dr. Marco Olguin (Senior Scientist, USC, USA)
12. Dr. Dijo Damien (Postdoc, UIUC, USA)
13. Dr. Min-Cheol Kim (Assoc. Prof, Busan University, South Korea)
14. Dr. Yoon-Gyo Cho (Scientist, LG Energy Solution, South Korea)
15. Dr. Ju-hsiang (Shawn) Cheng (Scientist, E-One Moli Energy Corp, Canada)
16. Dr. Enyue Zhao (Associate professor at Neutron Science Platform, Songshan Lake Materials Laboratory, Dongguan, China)
17. Dr. Chengcheng Fang (Assist. Prof. Michigan State U, USA)
18. Dr. Changrong Rose Zhu (Editor in Chief, Watt, Springer Nature, Hong Kong)
19. Dr. Bao Qiu (Group leader, NIMTE, China)
20. Dr. Jihyun Jang (Assist. Prof, Sogang University, South Korea)
21. Dr. Sam Oh (Project Manager, National Research Foundation, Singapore)
22. Dr. Thomas Brenner (Scientist, Weizmann Institute of Science, Israel)
23. Dr. Long Hoang Bao Nguyen (Scientist, CNRS, France)
24. Dr. Guomin Zhu (UCSB postdoc, USA)
25. Dr. Jean-Marie Doux (Scientist, SAFT, France)
26. Dr. Wurigumula Bao (Project Scientist, University of Chicago, USA)
27. Dr. Weikang Li (CTO, ExPost Technologies, USA)
28. Dr. Kun Qian (Assist. Professor, Greenbay University, China)
29. Dr. Charlotte Gervillie (Scientist, CNRS, College de France, France)
30. Dr. Mehdi Chouchane (Engineer, Freyr, Norway)
31. Dr. Xiaowei Wang (Postdoc, Argonne National Lab, USA)
32. Dr. Kazuhiro Yoshino (Scientist, Nissan, Japan)
33. Dr. Akira Yoda (Scientist, Denka, Japan)
34. Dr. Akihiro Orita (Scientist, Hitachi Chemical, Japan)
35. Dr. Hitoshi Shobukawa (Scientist, Asahi Kasei, Japan)
36. Dr. Katsunori Takahara (Scientist, Sony, Japan)
37. Dr. Xin He (Professor, Szuchuan University, China)
38. Dr. Qianyu Zhang (Professor, Fudan University, China)
39. Dr. Bing Han (SUSTEC, China)
40. Dr. Sean (Hanyang University, South Korea)
41. Dr. (Gachon University, South Korea)
42. Dr. Jeongbon Lee (Group Leader, LG Energy Solution, South Korea)

In Addition, more than 50 Master students and Undergraduate students had research experience at LESC for 6 months to 3 years.