Amit N. Shocron

Senior Lecturer

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Amit N. Shocron

h-index 14
citations 922

Education

2018-2023 **Ph.D., Mechanical Engineering, Technion – Israel Institute of Technology, Haifa, Israel**
Ion selectivity mechanisms in capacitive deionization
Advisor: Assoc. Prof. Matthew E. Suss

2014-2017 **M.Sc. cum Laude, Mechanical Engineering, Technion – I.I.T., Haifa, Israel**
The Effects of Surface Transport on Water Desalination by Capacitive Deionization
Advisor: Assoc. Prof. Matthew E. Suss

2011-2014 **B.Sc. Summa cum Laude, Mechanical Engineering, Technion – I.I.T., Haifa, Israel**

Research Experience

2025-Present **Senior Lecturer (Assistant Professor), The Zuckerberg Institute for Water Research, Ben-Gurion University of the Negev, Midreshet Ben-Gurion, Israel**

2024-2025 **Postdoctoral research, Department of Chemical and Environmental Engineering, Yale University, CT, USA**
Advised by: Prof. Menachem Elimelech

2014-2023 **Graduate Student Researcher, Mechanical Engineering, T.I.I.T., Haifa, Israel**
Advised by: Assoc. Prof. Matthew E. Suss

2014 **Undergraduate Researcher, Mechanical Engineering, T.I.I.T., Haifa, Israel**
Advised by: Prof. David Greenblatt

Awards and Honors

12. **Vaadia-BARD Postdoctoral Fellowship**, 2024-2025.
11. Mechanical Engineering Department Shavit and Shai Citation for an **Outstanding Ph.D. Dissertation**, Technion, Haifa, Israel, 2024.
10. **The Russell Berrie Nanotechnology Institute Excellence Scholarship**, Technion, Haifa, Israel, 2023.
9. 2nd Best Poster, Grand Technion Energy Program Research Day, Technion, Haifa, Israel, 2022.
8. **Best Poster Presentation**, 1st Meeting of the International Electrokinetics Society, 14th International Symposium on Electrokinetics, Tel Aviv University, Tel Aviv, Israel, 2022.
7. The Aharon and Ephraim Katzir Study Grant, The Batsheva de Rotchild Fund for The Advancement of Sciences in Israel, The Israel Academy of Sciences and Humanities (declined by me), 2022.
6. Faculty of Mechanical Engineering Excellence Fellowship, Technion, Haifa, Israel, 2022.
5. Technion Graduate School Jacobs Citation for Academic **Excellence and Outstanding Research Achievement** in Ph.D. Studies, Technion, Haifa, Israel, 2021.
4. **Best Poster Prize**, The 5th International Conference on CDI&E, Virtual, May 9th-13th,2021.
3. The Baruch Zinger Award for Best Student Poster Presentation, Israel Electrochemistry Meeting (Presenter: Eilon Miara), 2019.
2. Technion Graduate School Daniel Citation for Academic Excellence and Outstanding Research Achievement in Ph.D. Studies, Technion, Haifa, Israel, 2019.
1. ***Nature Nanotechnology* Poster Prize**, Dead Sea Water: Nanomaterials at the water-energy nexus, Dead Sea, Israel, 2019.

Publications

(=co-corresponding authors*)**

Corresponding author publications

22. A. Iddya, **A.N. Shocron***, M. Elimelech*, "Transient analysis of bipolar membrane assisted electrosorption: Implications for boron removal", *Desalination*, **615**, 119287, 2025 **[Q1, Impact Factor (IF): 9.8]**.

(=first co-authored*)**

First author publications

21. **A.N. Shocron***, L. Monat*, J.E. Dykstra, M. Elimelech, O. Nir, "Ion Selectivity in Brackish Groundwater Desalination by Electrodialysis: Experiments and Theory", *J. Memb. Sci.*, **719**, 123668, 2025 **(Q1, IF: 9.0)**.

20. **A.N. Shocron**, R. Uwayid, E.N. Guyes, J.E. Dykstra, M.E. Suss, "Order-of-magnitude enhancement in boron removal by membrane-free capacitive deionization", *Chem. Eng. J.*, **466**, 142722, 2023 **(Q1, IF: 13.4)**.

19. **A.N. Shocron**, R.S. Roth, E.N. Guyes, R. Epsztein, M.E. Suss, "Comparison of ion selectivity in electrodialysis and capacitive deionization", *Environ. Sci. Technol. Lett.*, **9 (11)**, 889-899, 2022 **(Q1, IF: 10.9)**.

18. **A.N. Shocron**, I. Atlas, M.E. Suss, "Predicting ion selectivity in water purification by capacitive deionization: electric double layer models", *Curr. Opin. Colloid Interface Sci.*, **60**, 101602, 2022 **(Q1, IF: 8.9)**.

17. **A.N. Shocron***, E.N. Guyes*, P.M. Biesheuvel, H.H.M. Rijnaarts, M.E. Suss, J.E. Dykstra, "Electrochemical removal of amphoteric ions", *PNAS*, **118 (40)**, e2108240118, 2021 **(Q1, IF: 12.779)**.

16. **A.N. Shocron**, M.E. Suss, "Should we pose a closure problem for capacitive charging of porous electrodes?", *Europhysics Lett.*, **130**, 34003, 2020 **(Q3, IF: 1.947)**.

15. **A.N. Shocron**, M.E. Suss, "The effect of surface transport on water desalination by porous electrodes undergoing capacitive deionization", *J. Phys. Condens. Matter*, **29**, 084003, 2017 **(Q2, IF: 2.617)**.

Contributing author publications

14. M. del Cerro, **A.N. Shocron**, H. Fan, J. Gilron, M. Elimelech, "Methods for evaluating transport parameters of low-salt-rejection reverse osmosis (LSRRO) membranes", *Desalination*, **620**, 119588, 2026 **(Q1, IF: 9.8)**.

13. Y. Duan, R. Wang, **A.N. Shocron**, M. Elimelech, "Design principles of catalytic reactive membranes for water treatment", *Nat. Water*, **3**, 949-962, 2025 **(Q1, IF: 24.1)**.

12. Z. Zhang, **A.N. Shocron**, V. Meola, C. Violet, Z. Jiao, P.I. Lenz, Y. Duan, R. Wang, A. Iddya, M. Elimelech, "New Methodology for Characterizing Ion Permeability and Selectivity of Ion-Exchange Membranes", *Environ. Sci. Technol. Lett.*, **12(8)**, 1082-1088, 2025 **(Q1, IF: 8.8)**.

11. H. Rosentreter, M. Moch, D. Schödel, M. Jeske, T. Oddoy, J. Meier-Haack, **A.N. Shocron**, A. Lerch, "Lab-scale experiments with a monovalent ion selective membrane capacitive deionization for nitrate removal", *Water Resour. Ind.*, **33**, 100288, 2025 **(Q1, IF: 7.5).**

10. A. Balaji-Wright, J. Wu, **A.N. Shocron**, A. Greenberg Dana, M.E. Suss, A. Mani, "Understanding degradation of capacitive deionization cells: Full–cell simulations with anode corrosion", *Desalination*, **587**, 117924, 2024 **(Q1, IF: 9.8)**.

9. Z. Sahray, **A.N. Shocron**, R. Uwayid, C.E. Diesendruck, M.E. Suss, "Extreme Monovalent Ion Selectivity via Capacitive Ion Exchange", *Water Res.*, **246**, 120684, 2023 **(Q1, IF: 11.5)**.

8. K. Amini, **A.N. Shocron**, M.E. Suss, M. Aziz, "Pathways to High-Power-Density Redox Flow Batteries", *ACS Energy Lett.*, **8 (8)**, 3526-3535, 2023 **(Q1, IF: 19.5)**.

7. D. Alfisi, **A.N. Shocron**, R. Gloukhovski, D.A. Vermaas, M.E. Suss, "Resistance breakdown of a membraneless hydrogen-bromine redox flow battery", *ACS Sustainable Chem. Eng.*, **10 (39)**, 12985-12992, 2022 **(Q1, IF: 8.4)**.
6. M.A. Alkhadra, X. Su, M.E. Suss, H. Tian, E.N. Guyes, **A.N. Shocron**, K.M. Conforti, J.P. de Souza, N. Kim, M. Tedesco, K. Khoiruddin, I.G. Wenten, J.G. Santiago, T.A. Hatton, M.Z. Bazant, "Electrochemical Methods for Water Purification, Ion Separations, and Energy Conversion", *Chem. Rev.*, **122 (16)**, 13547-13635, 2022 **(Q1, IF: 62.1)**.
5. I. Atlas, J. Wu, **A.N. Shocron**, M.E. Suss, "Spatial variations of pH in electrodialysis stacks: Theory", *Electrochim. Acta*, **413**, 140151, 2022 **(Q2, IF: 6.6)**.
4. R. Uwayid, E.N. Guyes, **A.N. Shocron**, J. Gilron, M. Elimelech, M.E. Suss, "Perfect divalent cation selectivity with capacitive deionization", *Water Res.*, **210**, 117959, 2022 **(Q1, IF: 12.8)**.
3. E.N. Guyes, **A.N. Shocron**, Y. Chen, C.E. Diesendruck, M.E. Suss, "Long-lasting, monovalent-selective capacitive deionization electrodes", *npj Clean Water*, **4**, 22, 2021 **(Q1, IF: 12.190)**.
2. E.M. Remillard, **A.N. Shocron**, J. Rahill, M.E. Suss, C.D. Vecitis, "A direct comparison of flow-by and flow-through capacitive deionization", *Desalination*, **444**, 169-177, 2018 **(Q1, IF: 6.603)**.
1. E.N. Guyes, **A.N. Shocron**, A. Simanovski, P.M. Biesheuvel, M.E. Suss, "A one-dimensional model for water desalination by flow-through electrode capacitive deionization", *Desalination*, **415**, 8-13, 2017 **(Q1, IF: 6.603)**.

Grant Proposal Experience

1. "Simultaneous carbon capture and utilization using a bipolar membrane-assisted electrochemical cell." *Received from Yale Planetary Solutions seed Grant*. Principal Investigator: Menachem Elimelech. **Contributed to conceptualization and writing**.
2. "Hybrid Process Integrating Electrodialysis and Reverse Osmosis for Beneficial Desalination of Brackish Water for Agricultural Irrigation." *Submitted to US-Israel Binational Agricultural Research and Development (BARD) Fund*. Principal Investigators: Menachem Elimelech, Oded Nir. **Contributed to writing**.
3. "Direct Lithium Extraction from Aqueous Solutions with Solid-State Electrolytes: Mechanisms of Ion Transport and Selectivity." *Submitted to Department of Energy – Basic Energy Science (DOE-BES)*. Principal Investigators: Menachem Elimelech, Kai Gong. **Contributed to writing**.

Teaching Experience

2022-2023 Teaching Assistant in Thermodynamics 2 (Undergraduate level, Mechanical Engineering, Technion).

2022	Teaching Assistant in Heat and Mass Transfer (Graduate level, Mechanical Engineering, Technion).

Students Mentoring

2024-2025	Mentor of Ph.D. candidate at Yale, Brielle Januszewski.
2021-2024	Mentor of M.Sc. student at Technion, Eilon Miara: publication #18, presentations #4, #10, #13.
2021-2023	Mentor of Ph.D. student at Technion, Jintao Wu: publications #5, #10, presentations #11, #42.
2020-2023	Mentor of M.Sc. student at Technion, Zohar Sahray: publications #9, #22, presentations #6, #9, #12, #30, #37, #43.
2018-2019	Project mentor of an undergraduate research project at Technion, Eilon Miara: award #5 for poster #4.
2018-2019	Project mentor of an undergraduate research project at Technion, Zohar Sahray: poster #3.

Professional Services

2019-Present	Journal reviewer: Science Advances, Nature Communications, Journal of Colloid and Interface Science.

Presentations

(the presenter is underlined)

Invited Speaker Lectures

56. **A.N. Shocron**, L. Monat, B. Januszewski, J.E. Dykstra, M. Elimelech, O. Nir, "Ion Selectivity in Electrodialysis: The Importance of Mass Transport Across the Entire Channels", **7th Conference of Electrochemical and Membrane Separations**, Wrocław, Poland, May 18th-22nd, 2025.

Conference Lectures

55. **A.N. Shocron**, A. Iddya, Y. Duan, Y. Yao, M. Elimelech, "Bipolar Membrane – Assisted Carbon Capture and Utilization", **Material Research Society (MRS) Fall 2024 Meeting**, Boston, MA, USA, December 1st-6th, 2024.
54. **A.N. Shocron**, A. Iddya, J.E. Dykstra, M. Elimelech, "Boron removal for a more efficient seawater desalination: A mechanistic model of a bipolar membrane electrosorption cell", **American Chemical Society (ACS) Fall Meeting 2024**, Denver, CO, USA, August 18th-22nd, 2024 (delivered remotely).

53. **A.N. Shocron**, R. Epsztein, M.E. Suss, "Comparing the ion selectivity achieved in electrodialysis and capacitive deionization", **The 6th International Conference on Battery Deionization & Electrochemical Separation**, Taipei, Taiwan, July 2nd-6th, 2023.

52. M.E. Suss, Z. Sahray, R. Uwayid, **A.N. Shocron**, "Numerical modeling is crucial to exploring possible selective separations with capacitive deionization"**, The 6th International Conference on Battery Deionization & Electrochemical Separation**, Taipei, Taiwan, July 2nd-6th, 2023.

51. R. Uwayid, E.N. Guyes, **A.N. Shocron**, J. Gilron, M. Elimelech, M.E. Suss, " Towards high water recovery brackish water desalination: extremely selective removal of divalent cations "**, The 6th International Conference on Battery Deionization & Electrochemical Separation**, Taipei, Taiwan, July 2nd-6th, 2023.

50. **A.N. Shocron**, I. Atlas, J. Wu, J.E. Dykstra, M.E. Suss, "Towards removal of pH-dependent species by capacitive deionization and electrodialysis", **5th International Symposium on Physics of Membrane Processes (PMP2022)**, Wageningen, The Netherlands, October 13th-14th, 2022.

49. Z. Sahray, **A.N. Shocron**, R. Uwayid, M.E. Suss, "Theory of monovalent ion selectivity by capacitive deionization", **PMP2022**, Wageningen, The Netherlands, October 13th-14th, 2022.

48. J. Wu, I. Atlas, **A.N. Shocron**, M.E. Suss, "Spatial variations of pH in electrodialysis stacks: Theory", **PMP2022**, Wageningen, The Netherlands, October 13th-14th, 2022.

47. **A.N. Shocron**, E.N. Guyes, J.E. Dykstra, M.E. Suss, "Analysis of boron removal by capacitive deionization", **The 242nd Electrochemical Society (ECS) Meeting**, Atlanta, GA, USA, October 9th-13th, 2022.

46. M.E. Suss, **A.N. Shocron**, E.N. Guyes, R. Uwayid, "Numerical modeling unlocks remarkable ion selectivity of capacitive deionization", **The 242nd ECS Meeting**, Atlanta, GA, USA, October 9th-13th, 2022.

45. **A.N. Shocron**, A. Asokan, D. Alfisi, R. Gloukhovski, M.E. Suss, "Ex-situ characterization of high density flow battery electrodes vie impedance spectroscopy", **The 73rd Annual Meeting of the International Society of Electrochemistry (ISE)**, September 12th-16th, 2022 (delivered remotely due to pandemic).

44. R. Uwayid, E.N. Guyes, **A.N. Shocron**, J. Gilron, M. Elimelech, M.E. Suss, "Perfect divalent cation selectivity with capacitive deionization", **The 73rd Annual Meeting of the ISE**, September 12th-16th, 2022 (delivered remotely).

43. Z. Sahray, **A.N. Shocron**, R. Uwayid, M.E. Suss, "Theory of monovalent ion selectivity by capacitive deionization", **The 73rd Annual Meeting of the ISE**, September 12th-16th, 2022 (delivered remotely).

42. M.E. Suss, R. Uwayid, Z. Sahray, **A.N. Shocron**, E.N. Guyes, "Numerical Modeling Unlocks Remarkable Ion Selectivity of Capacitive Deionization", **1st Meeting of the International Electrokinetics Society, 14th International Symposium on Electrokinetics**, Tel Aviv University, Tel Aviv, Israel, July 4th-6th, 2022.

41. R. Uwayid, E.N. Guyes, **A.N. Shocron**, J. Gilron, M. Elimelech, M.E. Suss, "Perfect divalent cation selectivity with capacitive deionization", **1st Meeting of the International Electrokinetics Society, 14th International Symposium on Electrokinetics**, Tel Aviv University, Tel Aviv, Israel, July 4th-6th, 2022.

40. **A.N. Shocron**, E.N. Guyes, P.M. Biesheuvel, H.H.M. Rijnaartz, J.E. Dykstra, M.E. Suss, "Enhanced Boron Removal by Capacitive Deionization", **The 31st Topical Meeting of the ISE**, Aachen, Germany, May 15th-19th, 2022.

39. M.E. Suss, E.N. Guyes, Z. Sahray, **A.N. Shocron**, R. Uwayid, "Numerical Modeling Unlocks Remarkable Ion Selectivity of Capacitive Deionization", **The 31st Topical Meeting of the ISE**, Aachen, Germany, May 15th-19th, 2022.

38. **A.N. Shocron**, E.N. Guyes, P.M. Biesheuvel, H.H.M. Rijnaartz, M.E. Suss, J.E. Dykstra, "Electrochemical removal of amphoteric ions", **The 12th European Symposium on Electrochemical Engineering (ESEE)**, Leeuwarden, The Netherlands, June 14th-17th, 2021 (delivered remotely).

37. E.N. Guyes, **A.N. Shocron**, Y. Chen, C.E. Diesendruck, M.E. Suss. "Long-lasting, monovalent-selective capacitive deionization electrodes" **The 12th ESEE**, Leeuwarden, The Netherlands, June 14th-17th, 2021 (delivered remotely).

36. Z. Sahray, **A.N. Shocron**, E.N. Guyes, M.E. Suss, "Theory of monovalent ion selectivity using porous carbon capacitive deionization electrodes", **The 12th ESEE**, Leeuwarden, The Netherlands, June 14th-17th, 2021 (delivered remotely).
35. E.N. Guyes, **A.N. Shocron**, Y. Chen, C.E. Diesendruck, M.E. Suss. "Long-lasting, monovalent-selective capacitive deionization electrodes", **The 5th International Conference on CDI&E 2021**, Atlanta, GA, USA, May 9th-13th, 2021 (delivered remotely).
34. **A.N. Shocron**, E.N. Guyes, P.M. Biesheuvel, H.H.M. Rijnaartz, M.E. Suss, J.E. Dykstra, "Electrochemical removal of amphoteric ions", **The 29th Topical Meeting of the ISE**, Atlanta, GA, USA, April 19th-21st, 2021 (delivered remotely).
33. E.N. Guyes, **A.N. Shocron**, Y.Chen, C.E. Diesendruck, M.E. Suss. "Sulfonated nanoporous carbon electrodes for long-lasting, monovalent-selective, capacitive deionization." **The 71st Annual Meeting of the ISE**, Belgrade, Serbia, September 2nd, 2020 (delivered remotely).
32. **A.N. Shocron**, M.E. Suss, "Do We Need to Pose a Closure Problem to Capture the Dynamics of the Capacitive Charging of Porous Electrodes?", **The 35th Israeli Conference on Mechanical Engineering**, Ben-Gurion University of the Negev, Beer-Sheva, Israel, October 9th-10th, 2018.
31. **A.N. Shocron**, M.E. Suss, "Do We Need to Pose a Closure Problem to Capture the Dynamics of the Capacitive Charging of Porous Electrodes?", **69th Annual Meeting of the ISE**, Bologna, Italy, September 2nd-7th, 2018.
30. **A.N. Shocron**, M.E. Suss, "Effects of Surface Transport on Water Desalination by Capacitive Deionization", **CDI&E Conference**, Saarbrücken, Germany, October 26th-29th, 2015.
29. E.N. Guyes, **A.N. Shocron**, M.E. Suss, "Flow-Through Capacitive Deionization Theory and Experiments", **CDI&E Conference**, Saarbrücken, Germany, October 26th-29th, 2015.
28. **A.N. Shocron**, M.E. Suss, "Effects of Surface Transport on Water Desalination by Capacitive Deionization", **Israel Electrochemical Annual Meeting**, Ben-Gurion University of the Negev, Beer Sheva, Israel, October 15th, 2015.

Seminar Lectures

27. **A.N. Shocron**, "Advancing Electro-Driven Processes at the Climate-Water-Energy Nexus", **Department Seminar**, Department of Chemical Engineering, Ben-Gurion University, Israel, February 18th, 2025.
26. **A.N. Shocron**, "Advancing Electro-Driven Processes at the Climate-Water-Energy Nexus", **Unit Seminar**, Unit of Environmental Engineering, Technion – Israel Institute of Technology, Israel, February 4th, 2025.
25. **A.N. Shocron**, "Transport Phenomena in Electro-Driven Processes at the Climate-Water-Energy Nexus", **Department Seminar**, Department of Mechanical Engineering, Ben-Gurion University, Israel, January 29th, 2025.
24. **A.N. Shocron**, "Transport Phenomena in Electro-Driven Processes at the Climate-Water-Energy Nexus", **School Seminar**, School of Mechanical Engineering, Tel Aviv University, Israel, January 27th, 2025.
23. **A.N. Shocron**, "Advancing Electro-Driven Processes at the Climate-Water-Energy Nexus", **Faculty Seminar**, Faculty of Chemical Engineering, Technion – Israel Institute of Technology, Israel, January 22nd, 2025.
22. **A.N. Shocron**, "Bipolar Membranes for Sustainable Solutions at the Climate-Water-Energy Nexus", **Department Seminar**, Zuckerberg Institute for Water Research, Ben-Gurion University, Israel, January 8th, 2025.
21. **A.N. Shocron**, "Advancing electro-driven processes for selective ion separations", **Department Seminar**, Zuckerberg Institute for Water Research, Ben-Gurion University, Israel, May 29th, 2024.
20. **A.N. Shocron**, "Is electrochemistry relevant for seawater desalination?", at the **Colloquium of the Environmental Technology Department**, Wageningen University, The Netherlands, September 6th, 2022.

Posters

19. **A.N. Shocron**, L. Monat, J.E. Dykstra, M. Elimelech, O. Nir, "Understanding ion selectivity in brackish water desalination by electrodialysis", **Gordon Research Conference (GRC) Membranes: Materials and Processes**, Colby-Sawyer College, NH, USA, July 28th- August 2nd, 2024.

18. A. Iddya, **A.N. Shocron**, W. Pan, S. Patel, M. Elimelech, "Modeling and optimization of boron removal in bipolar membrane assisted electrosorption", **GRC Membranes: Materials and Processes**, Colby-Sawyer College, NH, USA, July 28th- August 2nd, 2024.

17. B. Januszewski, H. Fan, **A.N. Shocron**, M. Elimelech, "Monovalent selective cation exchange membranes for brackish water desalination by electrodialysis", **GRC Membranes: Materials and Processes**, Colby-Sawyer College, NH, USA, July 28th- August 2nd, 2024.

16. Y. Duan, R. Wang, **A.N. Shocron**, M. Elimelech, "Design principles for catalytic reactive membranes for water treatment", **GRC Membranes: Materials and Processes**, Colby-Sawyer College, NH, USA, July 28th- August 2nd, 2024.

15. **A.N. Shocron**, E.N. Guyes, J.E. Dykstra, M.E. Suss, "Improved electrochemical boron removal using capacitive deionization", **The 73rd Annual Meeting of the ISE**, September 12th-16th, 2022 (delivered remotely).

14. **A.N. Shocron**, R. Uwayid, P.M. Biesheuvel, J.E. Dykstra, M.E. Suss, "The development of shock-like pH fronts during boron removal by capacitive deionization", **1st Meeting of the International Electrokinetics Society, 14th International Symposium on Electrokinetics**, Tel Aviv University, Tel Aviv, Israel, July 4th-6th, 2022 (a winning poster).

13. E. Miara, **A.N. Shocron**, M.E. Suss, "Theory of Nutrients Recovery by Capacitive Deionization", **1st Meeting of the International Electrokinetics Society, 14th International Symposium on Electrokinetics**, Tel Aviv University, Tel Aviv, Israel, July 4th-6th, 2022.

12. Z. Sahray, **A.N. Shocron**, R. Uwayid, M.E. Suss, "Theory of Monovalent Ion Selectivity by Capacitive Deionization", **1st Meeting of the International Electrokinetics Society, 14th International Symposium on Electrokinetics**, Tel Aviv University, Tel Aviv, Israel, July 4th-6th, 2022.

11. J. Wu, I. Atlas, **A.N. Shocron**, M.E. Suss, "Spatial Variations of pH in Electrodialysis Stacks: Theory", **1st Meeting of the International Electrokinetics Society, 14th International Symposium on Electrokinetics**, Tel Aviv University, Tel Aviv, Israel, July 4th-6th, 2022.

10. E. Miara, **A.N. Shocron**, M.E. Suss, "Theory of Nutrients Recovery by Capacitive Deionization", **Water Summit 2022**, The Zuckerberg Institute for Water Research, Ben-Gurion University of the Negev, Sede-Boker, Israel, May 22nd-23rd, 2022.

9. Z. Sahray, **A.N. Shocron**, R. Uwayid, E.N. Guyes, M.E. Suss, "Theory of Monovalent Ion Selectivity using Porous Carbon Capacitive Deionization Electrodes", **Water Summit 2022**, The Zuckerberg Institute for Water Research, Ben-Gurion University of the Negev, Sede-Boker, Israel, May 22nd-23rd, 2022.

8. **A.N. Shocron**, A. Asokan, D. Alfisi, R. Gloukhovski, M.E. Suss, "Characterizing High Power Density Flow Battery Electrodes via Impedance Spectroscopy", **The 31st Topical Meeting of the ISE**, Aachen, Germany, May 15th-19th, 2022.

7. **A.N. Shocron**, E.N. Guyes, P.M. Biesheuvel, M.E. Suss, J.E. Dykstra, "Electrochemical removal of amphoteric species", **The 5th International Conference on CDI&E 2021**, Atlanta, GA, USA, May 9th-13th, 2021 (delivered remotely, a winning poster).

6. Z. Sahray, **A.N. Shocron**, M.E. Suss, "Theory of monovalent ion selectivity using porous carbon capacitive deionization electrodes", **The 5th International Conference on CDI&E 2021**, Atlanta, GA, USA, May 9th-13th, 2021 (delivered remotely).

5. **A.N. Shocron**, M.E. Suss, "Do we Need to Pose a Closure Problem to Capture the Dynamics of the Capacitive Charging of Porous Electrodes?", **Israel Electrochemistry Meeting**, Ben-Gurion University of the Negev, Beer-Sheva, Israel, September 23rd, 2019.

4. E. Miara, Z. Sahray, **A.N. Shocron**, M.E. Suss, "Water Softening using Capacitive Deionization", **Israel Electrochemistry Meeting**, Ben-Gurion University of the Negev, Beer-Sheva, Israel, September 23rd, 2019 (a winning poster).

3. Z. Sahray, E. Miara, **A.N. Shocron**, M.E. Suss, "Agricultural Desalination using Capacitive Deionization", **Israel Electrochemistry Meeting**, Ben-Gurion University of the Negev, Beer-Sheva, Israel, September 23rd, 2019.

2. **A.N. Shocron**, M.E. Suss, " Do We Need to Pose a Closure Problem to Capture the Dynamics of the Capacitive Charging of Porous Electrodes?", **13th International Symposium on Electrokinetics**, MIT, Massachusetts, USA, June 12th-14th, 2019.

1. **A.N. Shocron**, M.E. Suss, "Advanced Modeling of Capacitive Deionization", **Dead Sea Water 2019 Workshop: Nanomaterials at the water-energy nexus**, Ein Gedi, Israel, February 4th-7th, 2019 (a winning poster).