Dr. Yasushi Sato

Position
Fellow, Central Technical Research Laboratory (CTRL),
ENEOS Holdings, Inc. / ENEOS Corporation
Email: sato.yasushi@eneos.com

Education
Doctor: Kanagawa University, Applied Chemistry in 2006
Master: The University of Tokyo, Synthetic Chemistry in 1994
Bachelor: Kyoto University, Industrial Chemistry in 1992

Topics
Renewable energy, Hydrogen, Hydrogen Carrier, Catalytic chemistry, Electrochemistry

Work Experience
2023-2025 Operating Officer, General Manager, CTRL, ENEOS Corporation
2020-2023 General Manager, Innovation Technology Center, CTRL, ENEOS Corporation
1994 Joined Nippon Oil Corporation (Current ENEOS Corporation)

(Concurrent)
2018-2024
Field Advisor, Japan Science and Technology Agency (JST), PRESTO program
2018-
Visiting Professor, the Institute of Advanced Sciences, Yokohama National University

Awards
1. The Electrochemical Society of Japan, Technology Award (2020)
2. Electrolysis Science and Technology Committee, Achievement Award (2021)
3. Japan Chemical Industry Association, Environmental Technology Award (as ENEOS) (2022)
4. Engineering Australia, Excellence Awards of QLD (as ENEOS), Final Nominee (2023)
5. New Energy Foundation, New Energy Grand Prize -Introduction Activity Category- (as ENEOS) (2023)
6. Japan Institute of Energy, Academic Award -Technical Division- (as ENEOS) (2024)
7. Japan Institute of Invention and Innovation, Future Creation Invention Award (2024)

Recent Selected Publications
1) Yuto Nakamura, **Yasushi Sato**, Naoki Shida, Mahito Atobe, 'Electrochemical Trimerization of Catechol to 2,3,6,7,10,11-Hexahydroxytriphenylene Using a Flow Microreactor', Electrochemistry, Vol. 89, No.4, pp.395-399, 2021.
2) Atsushi Fukazawa, Kenta Tanaka, Yasushi Hashimoto, **Yasushi Sato**, Mahito Atobe, 'Electrocatalytic Asymmetric Hydrogenation of alpha,beta-Unsaturated Acids in a PEM Reactor with Cinchona-modified Palladium Catalysts', Electrochemistry Communications , Vol. 115, pp.106734-106738, 2020.
3) Atsushi Fukazawa, Juri Minoshima, Kenta Tanaka, Yasushi Hashimoto, Yoshihiro Kobori, **Yasushi Sato**, Mahito Atobe, 'A New Approach to Stereoselective Electrocatalytic Semihydrogenation of Alkynes to Z-Alkenes using a Proton-Exchange Membrane Reactor', ACS Sustainable Chemistry Engineering, Vol. 7, No.13 pp.11050-11055, 2019.
4) Koji Matsuoka, Kota Miyoshi, **Yasushi Sato**, 'Electrochemical reduction of toluene to methylcyclohexane for use as an energy carrier', Journal of Power Sources, Vol. 343, pp.156-160, 2017.
5) T Ayano Takeshita, Shogo Miyoshi, Shu Yamaguchi, Takao Kudo, **Yasushi Sato** 'High surface reactivity of La/Sr-Co perovskite based cathode with cation nonstoichiometry', Solid State Ionics, Vol.262, pp.378-381, 2014.
6) Keitaro Fujii, Mizuki Ito, Sakae Takenaka, Masahiro Kishida, **Yasushi Sato**, 'Effects of Oxygen Vacancies and Reaction Conditions on Oxygen Reduction Reactionon Pyrochlore-Type Lead-Ruthenium Oxide', Journal of The Electrochemical Society, Vol.162, No.1 (1) pp F129-F135 , 2014.
7) Keitaro Fujii, Mizuki Ito, Sakae Takenaka, Masahiro Kishida, **Yasushi Sato**, 'Performance and durability of carbon black-supported Pd catalyst covered with silica layers in membrane-electrode assemblies of proton exchange membrane fuel cells', Journal of Power Sources, Vol.279 pp100-106, 2014.