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Bi-directional Modulation of Electron Transfer and Capacitive Behavior in Sediment Microbial Fuel Cells by Hydrochar and Acetate

Marcelinus Christwardana^{a,b,c,*}, Yayuk Astuti^a, H. Hadiyanto^{d,e}, Achmad Yanuar Maulana^{f,g}, K. Khoirunnisa^a, Dilla Dayanti^{b,c}, Keisya Natania Nur A'intan^a

^aDepartment of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Indonesia

^bMaster Program of Energy, School of Postgraduate Studies, Diponegoro University, Indonesia

^cResearch Collaboration Center for Electrochemistry, BRIN - Diponegoro University, Indonesia

^dDepartment of Chemical Engineering, Faculty of Engineering, Diponegoro University, Indonesia

^eCenter of Biomass and Renewable Energy (CBIORE), UPT Lab Terpadu 4th Floor, Diponegoro University, Indonesia

^fDepartment of Chemistry, Dong-A University, Busan 49315, South Korea

^gDAU G-LAMP Project Group, Institute of Natural Science, Dong-A University, Busan, 49315, South Korea

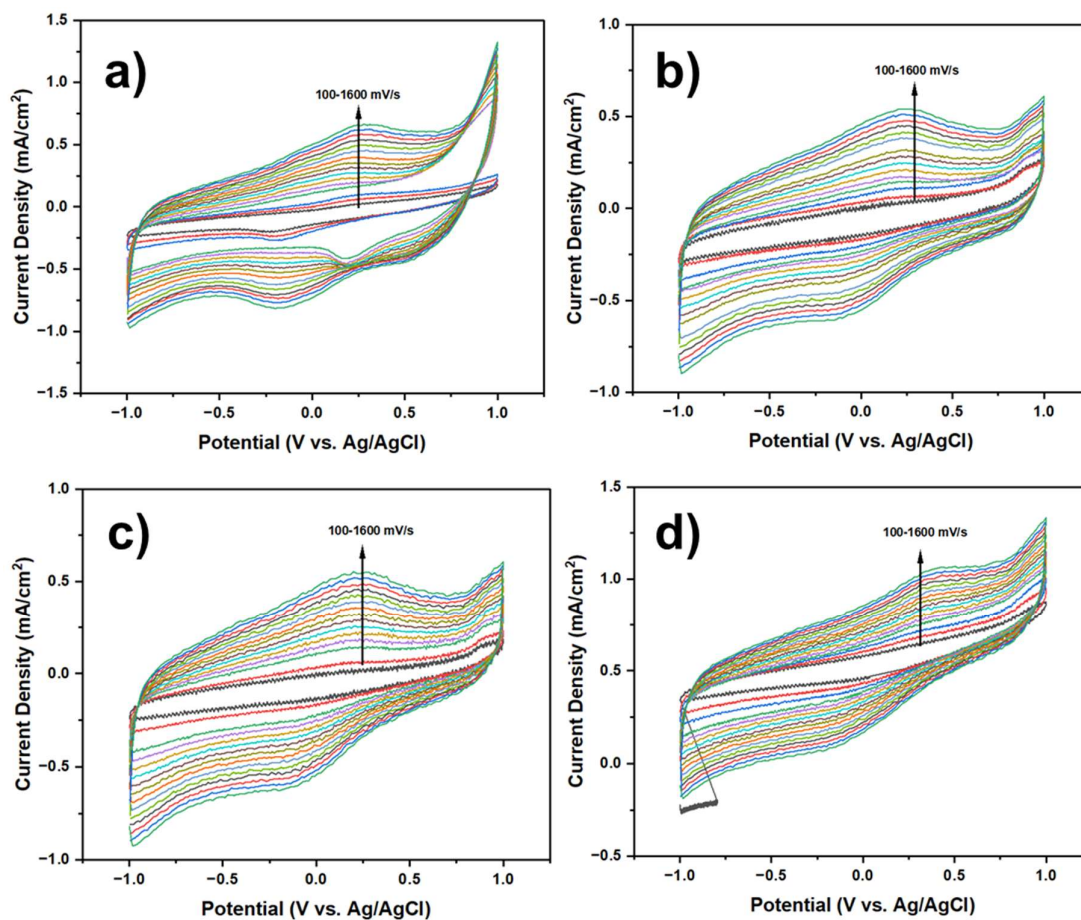


Fig S1. Cyclic Voltammetry curves of MS-MFC with MS only in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30 under various scan rate between 100 to 1600 mV/s

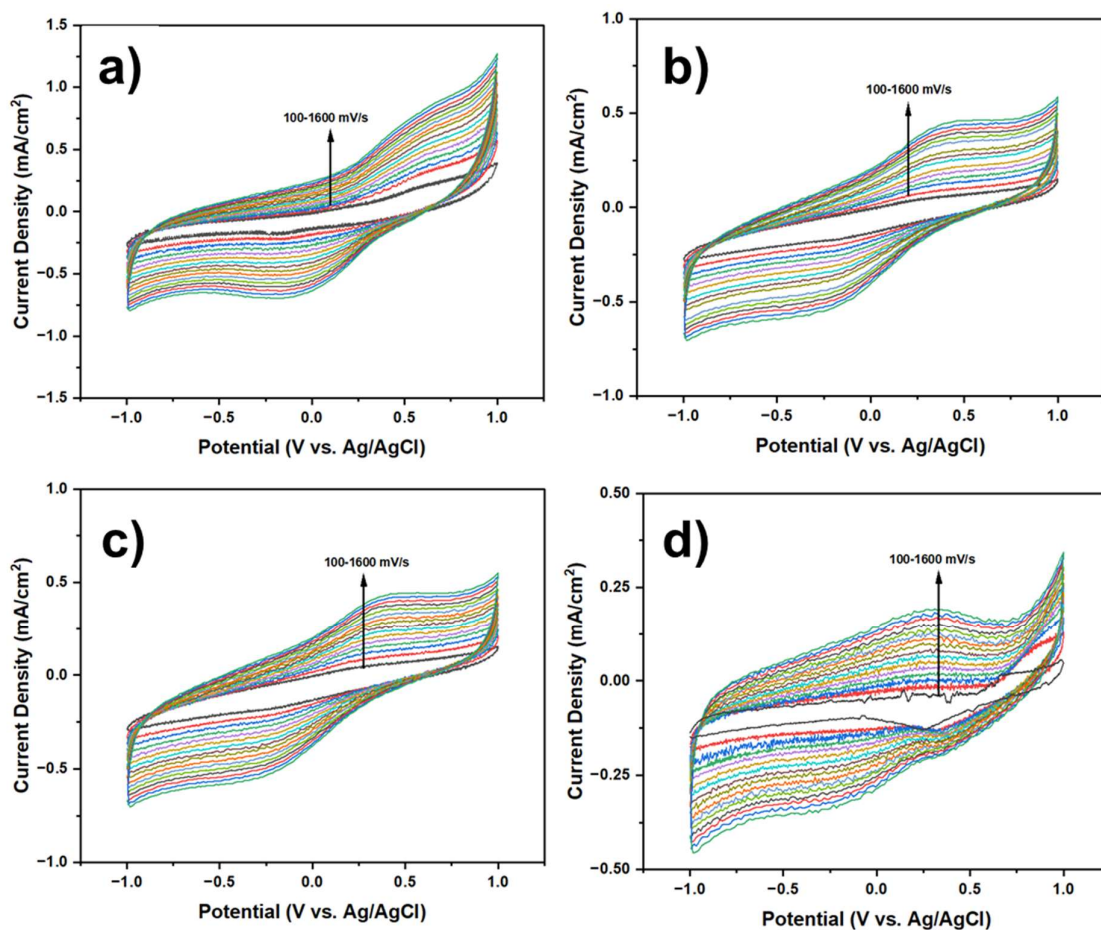


Fig S2. Cyclic Voltammetry curves of MS-MFC with MS + 5%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30 under various scan rate between 100 to 1600 mV/s

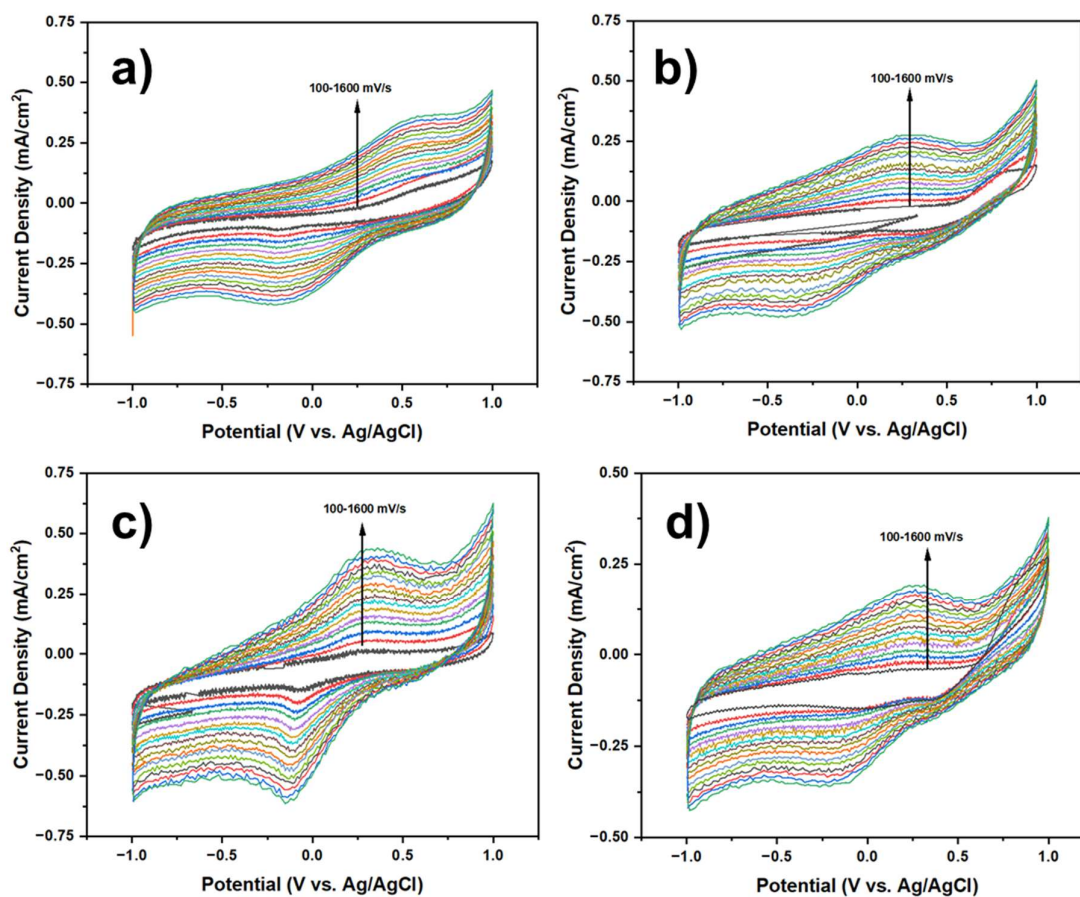


Fig S3. Cyclic Voltammetry curves of MS-MFC with MS + 10%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30 under various scan rate between 100 to 1600 mV/s

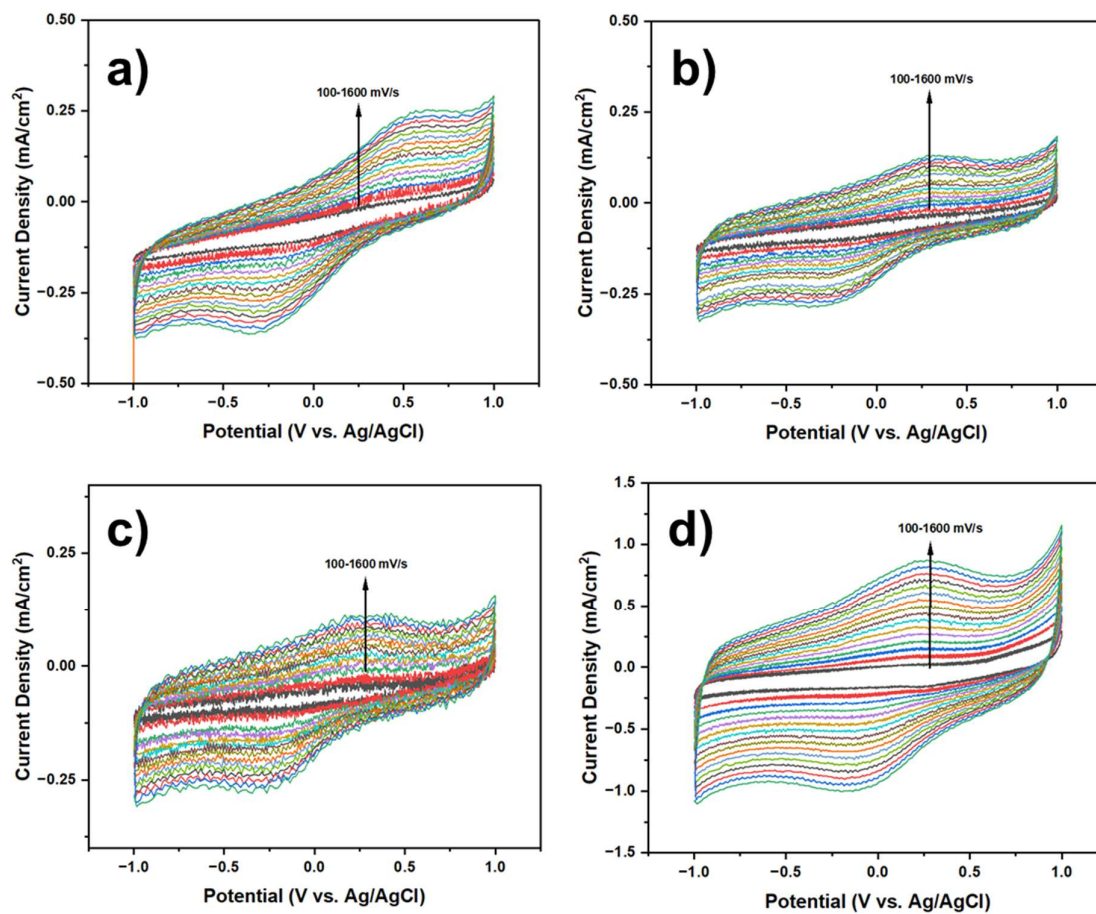


Fig S4. Cyclic Voltammetry curves of MS-MFC with MS + 15%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30 under various scan rate between 100 to 1600 mV/s

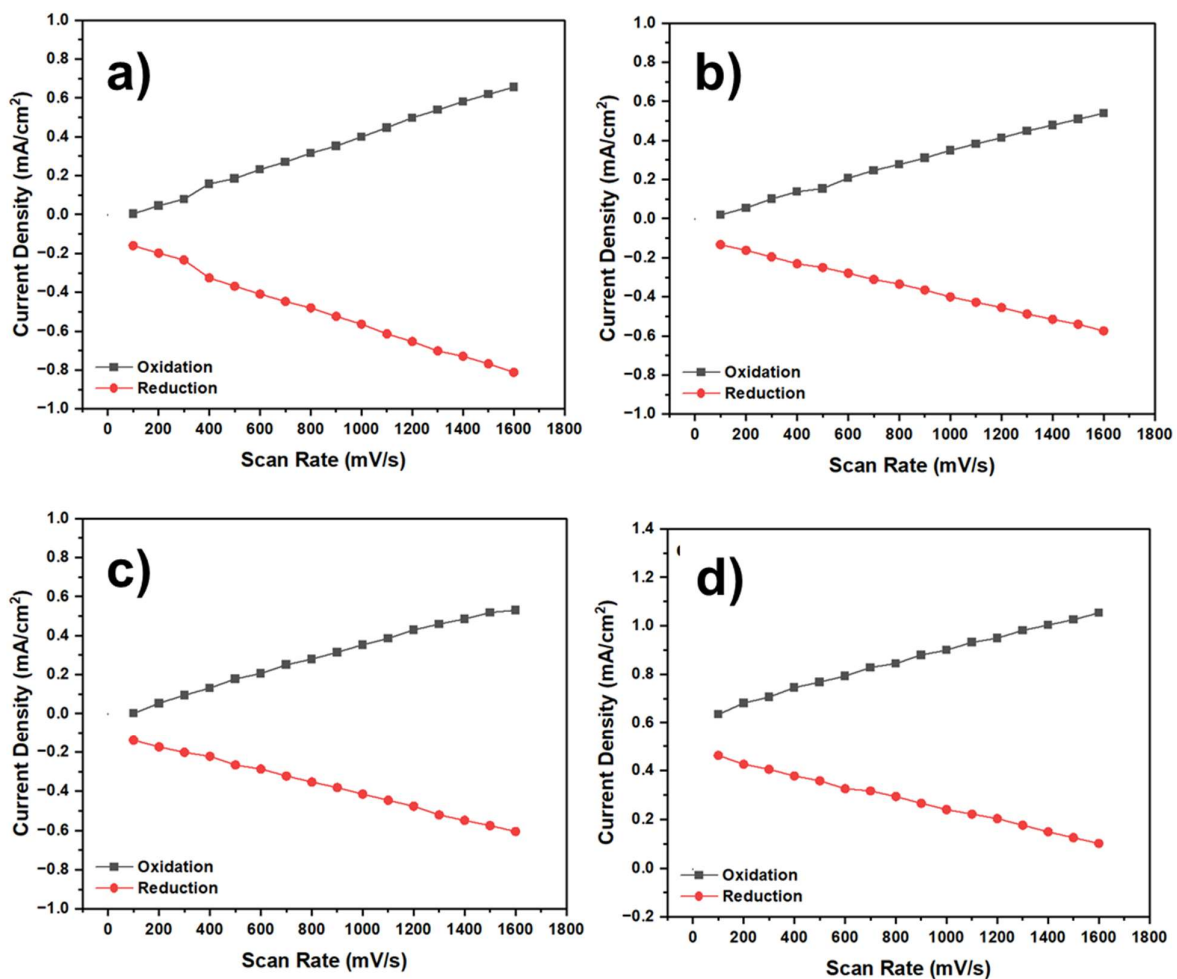


Fig S5. Correlation between scan rate and current density of MS-MFC with MS only in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30

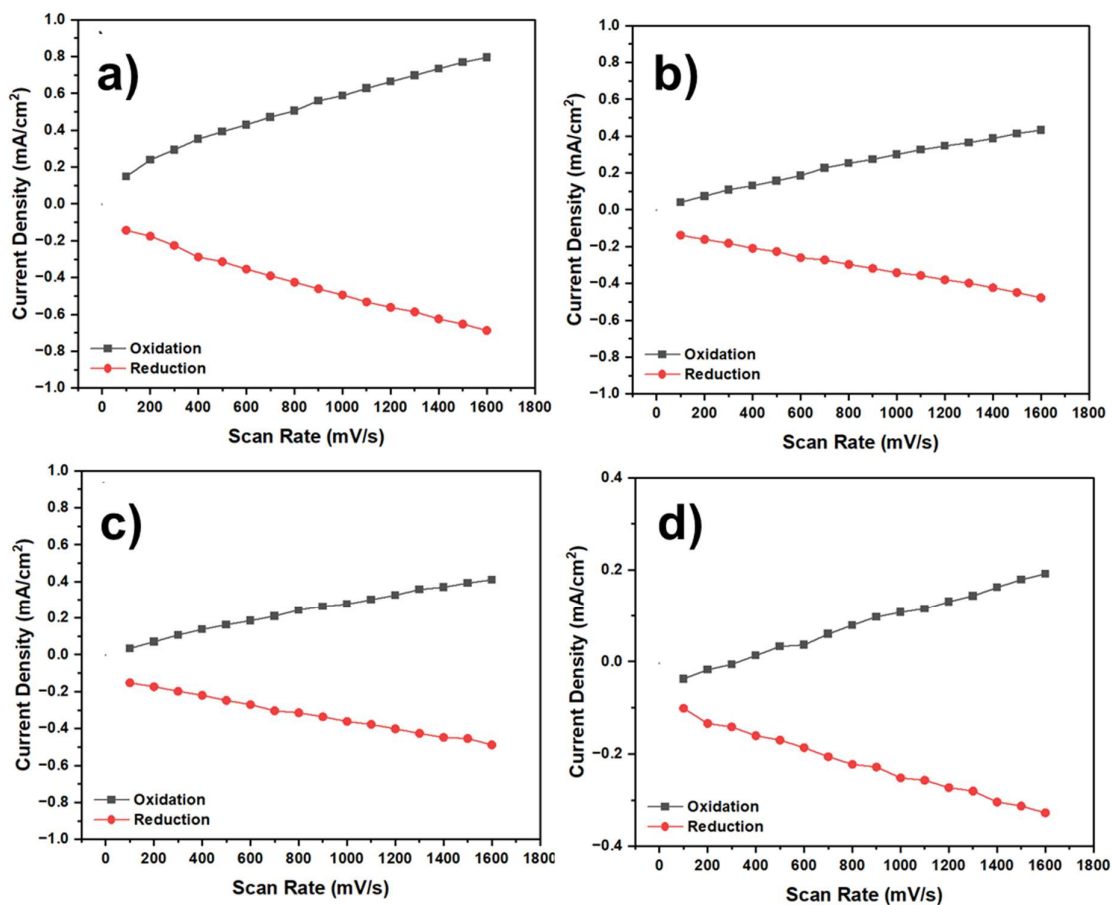


Fig S6. Correlation between scan rate and current density of MS-MFC with MS + 5%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30

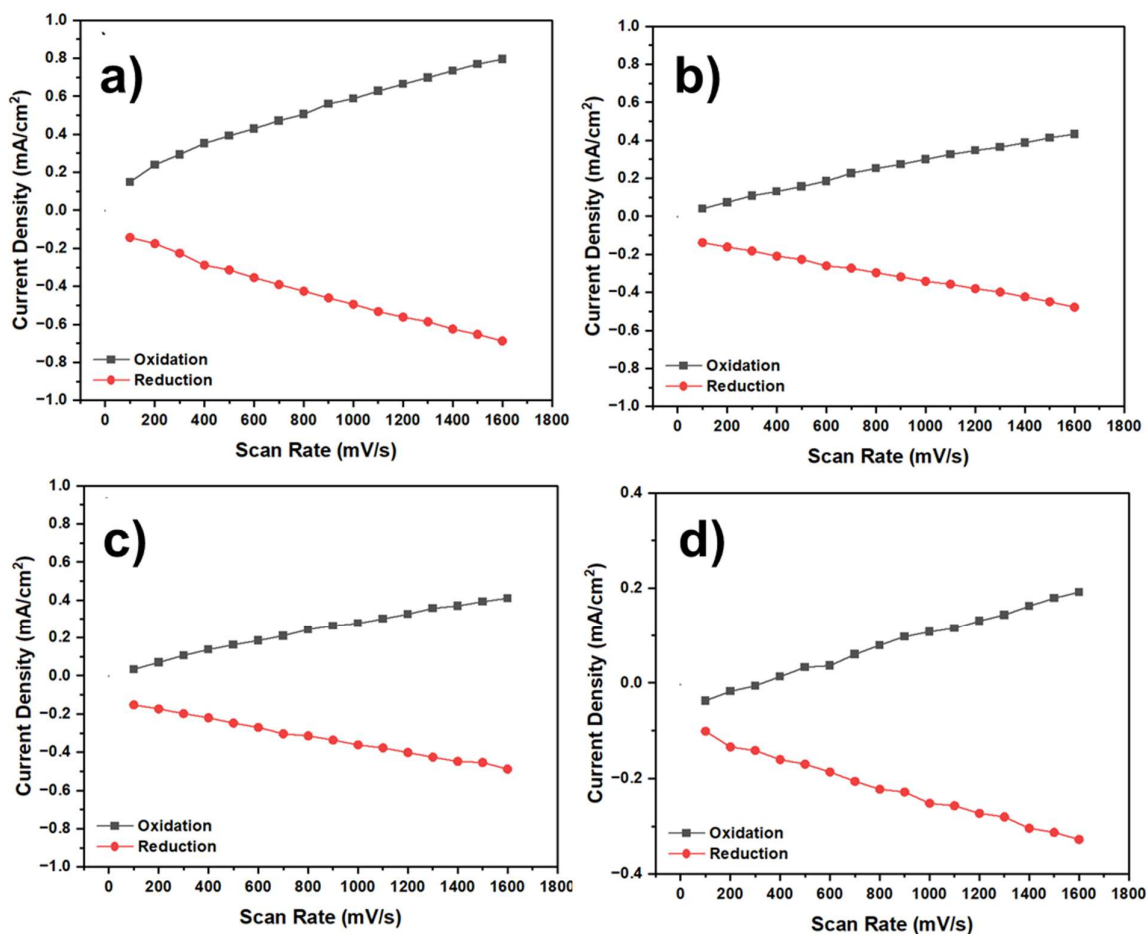


Fig S7. Correlation between scan rate and current density of MS-MFC with MS + 10%HC in anode chamber at a) day-0, b) day-21 (without acetate), c) day-21 (with acetate), and d) day-30

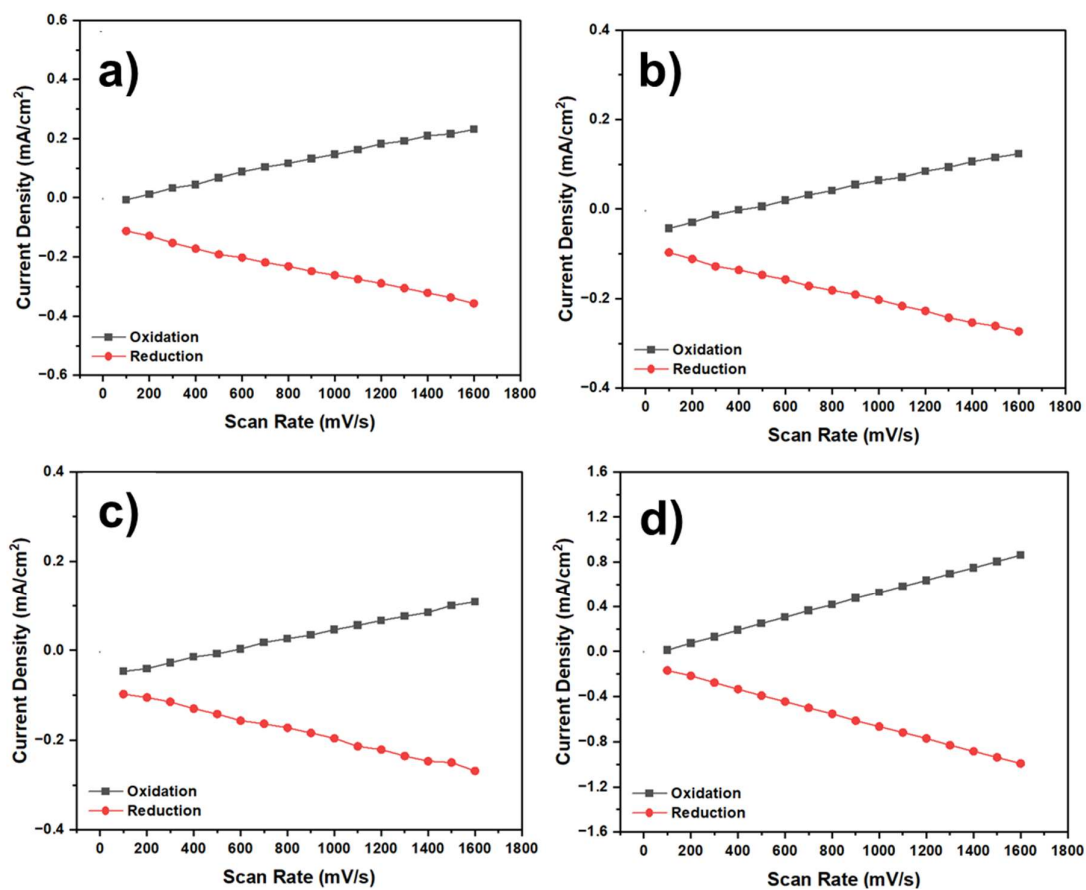


Fig S8. Correlation between scan rate and current density of MS-MFC with MS + 15%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30

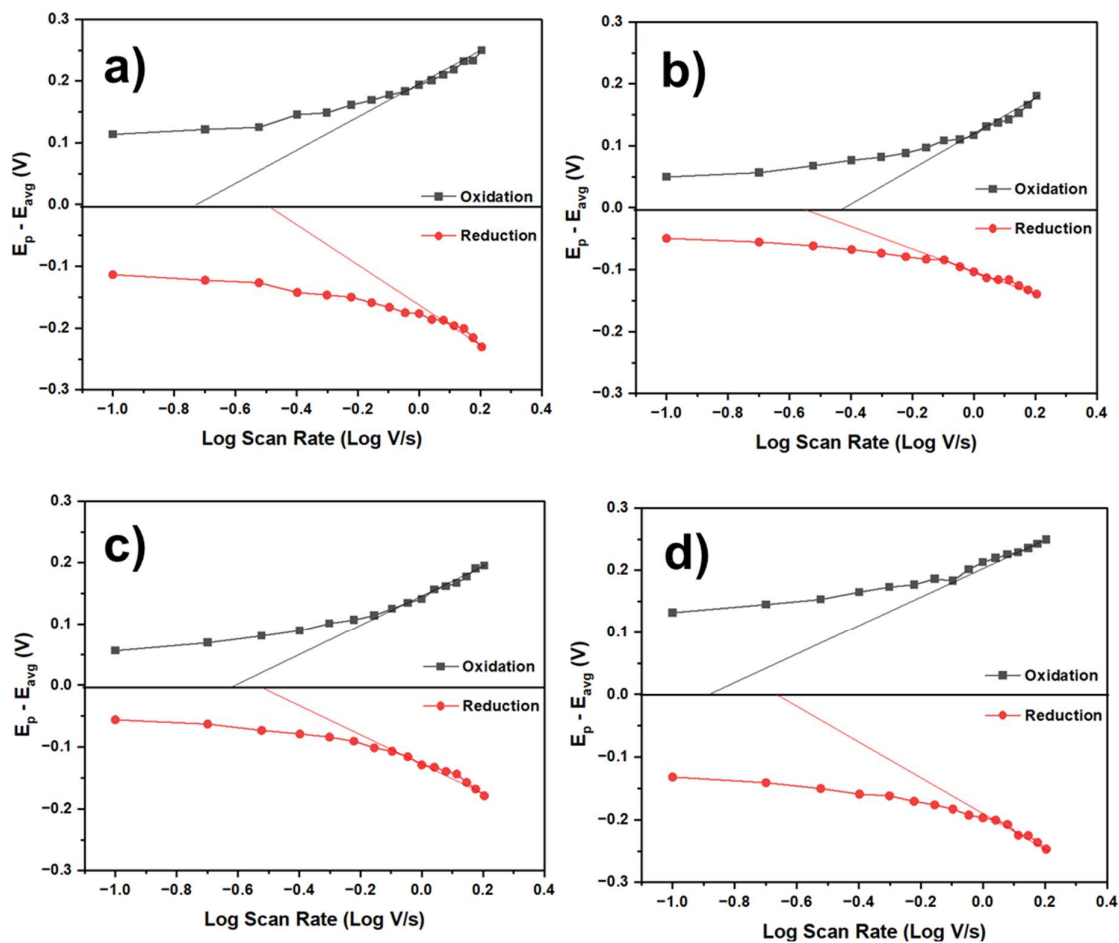


Fig S9. Laviron plot of MS-MFC with MS only in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30

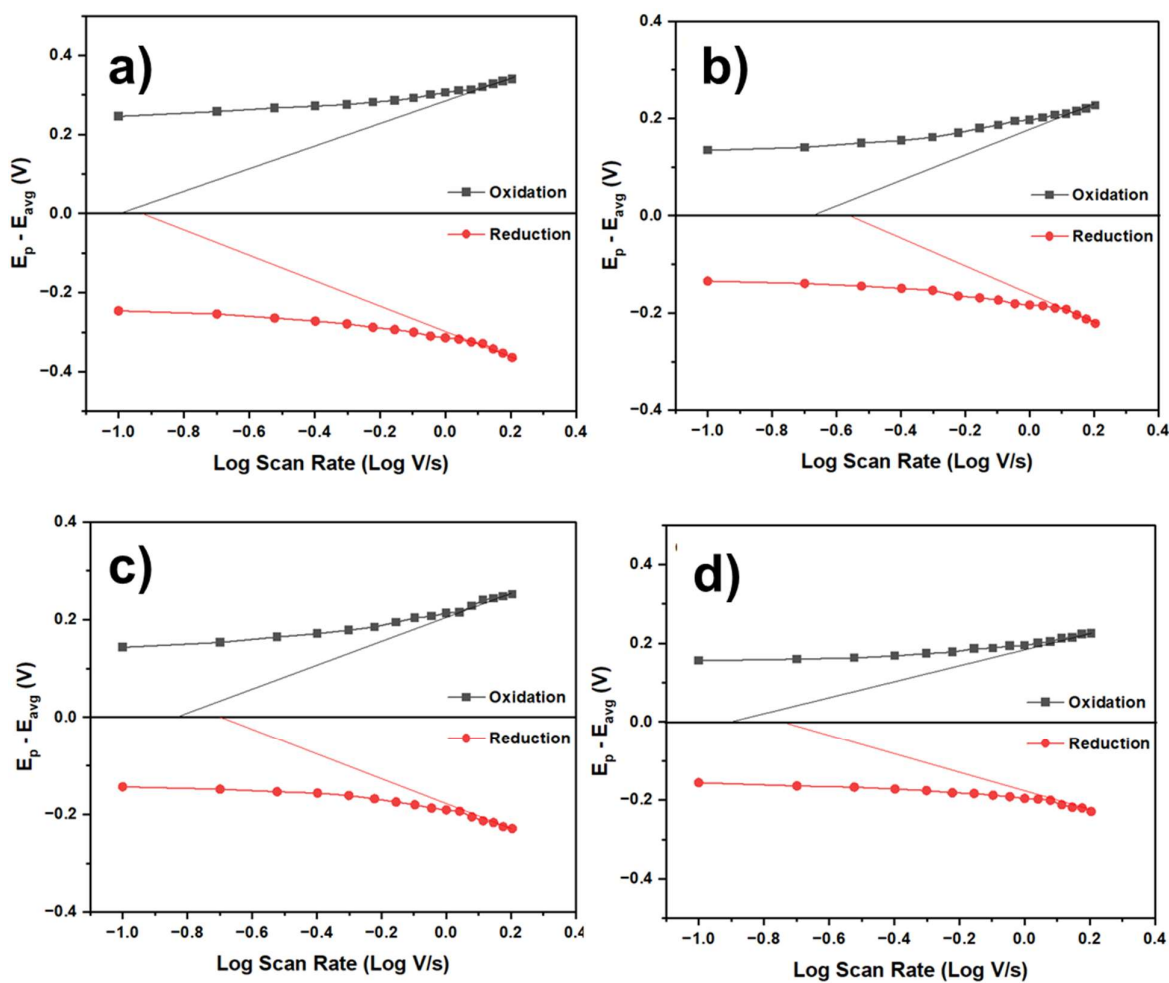


Fig S10. Laviron plot of MS-MFC with MS + 5%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30

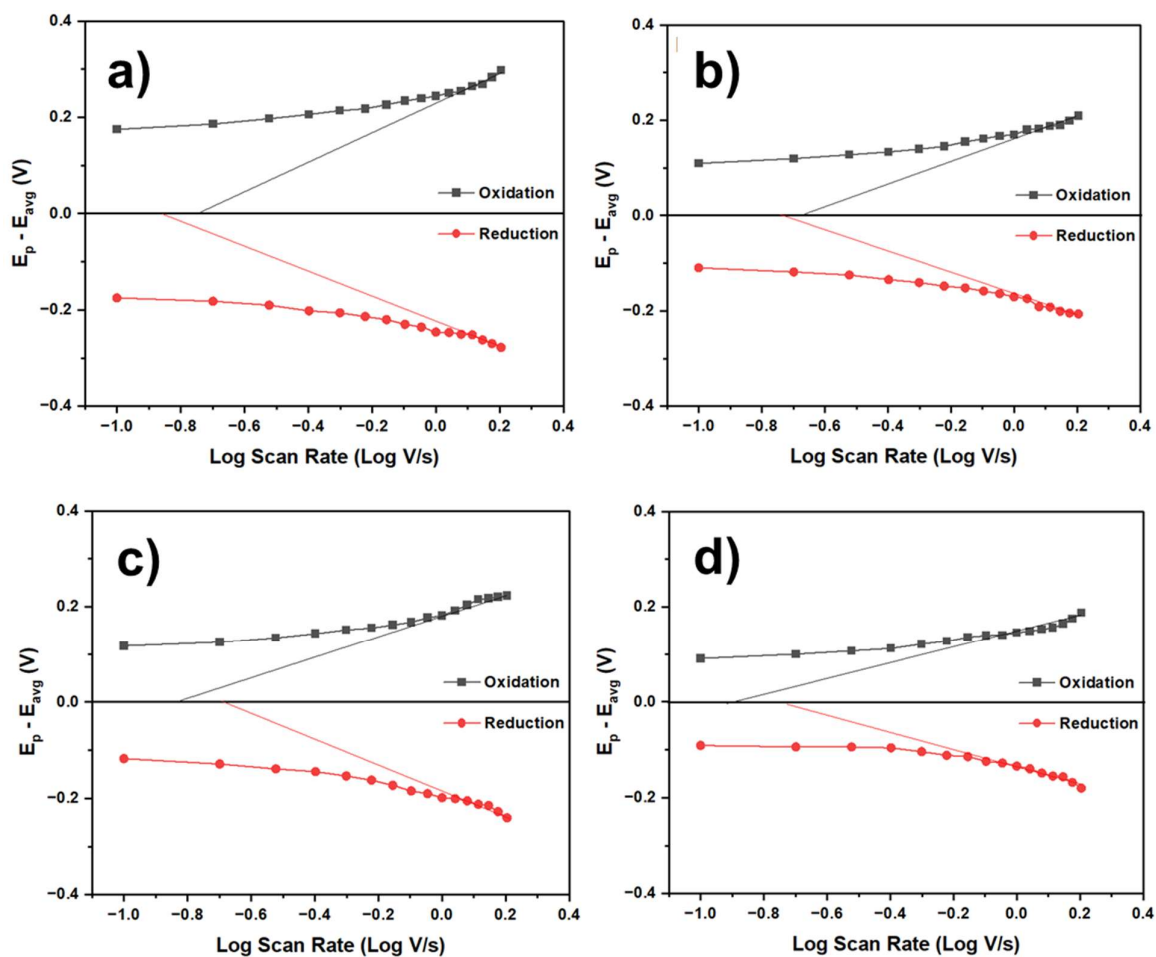


Fig S11. Lavin plot of MS-MFC with MS + 10%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30

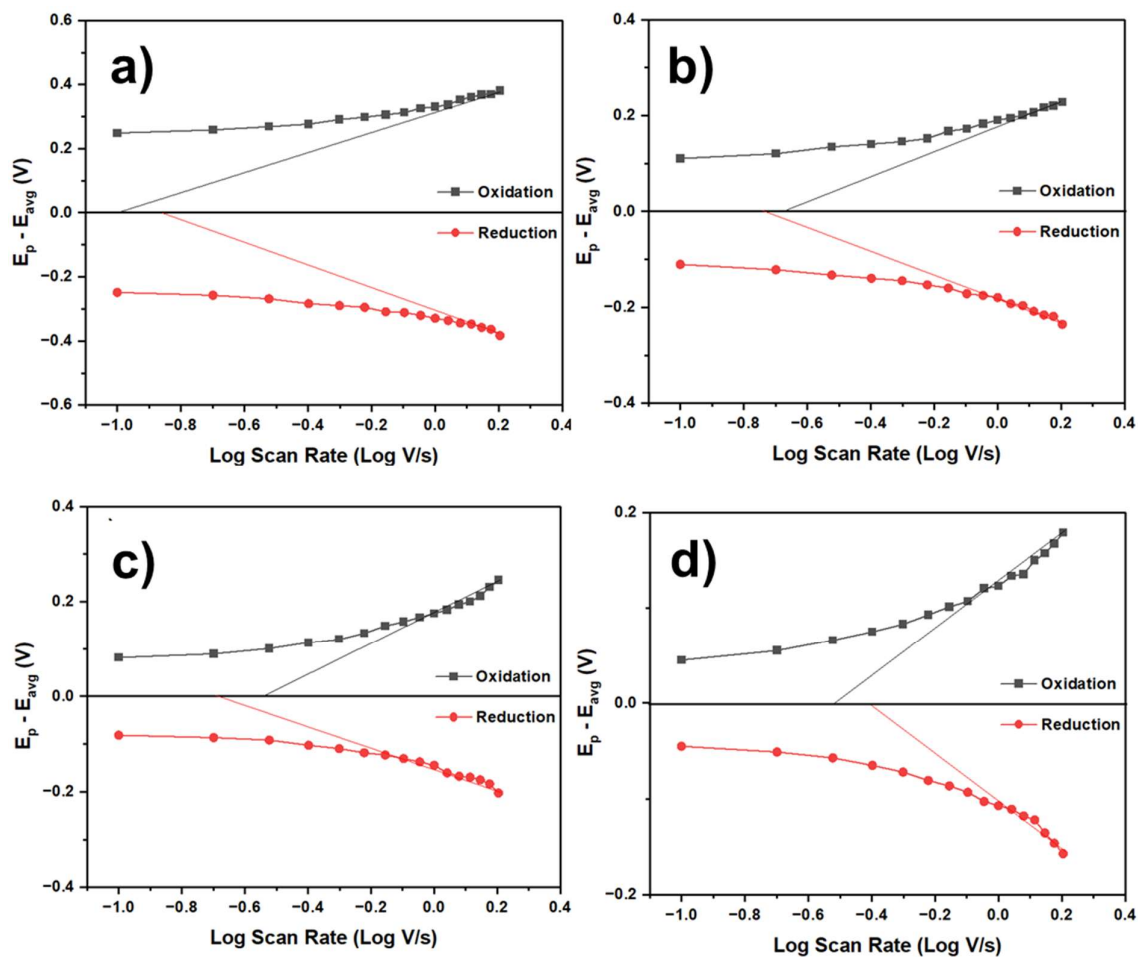


Fig S12. Lavin plot of MS-MFC with MS + 15%HC in anode chamber at a) day-0, b) day -21 (without acetate), c) day-21 (with acetate), and d) day-30