

Recent Developments in Single-Entity Electrochemistry

L. Zhang, O. J. Wahab, A. A. Jallow, Z. J. O'Dell, T. Pungsrisai, S. Sridhar, K. L. Vernon, K. A. Willets,* and L. A. Baker*

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INTRODUCTION

At some levels, single-entity electrochemistry (SEE) is enigmatic. First defined at a Royal Society of Chemistry Faraday Discussion in 2016,^{1–3} SEE encompasses a broad range of studies that are linked by underlying concepts, principles, and experimental/theoretical challenges that can include low current, high speed, and statistical treatments of electrochemical signals that originate from a single “thing”, that “thing” being a single nanoparticle, protein, or cell, etc. Since the inception of the general concept, the field has expanded and grown to studies beyond the original descriptions, often as technology and methods applicable to SEE have grown.^{4–10} SEE has proven to be especially timely, as methods are often well-matched to advances in data-driven approaches like machine learning (ML) and artificial intelligence.

In this Review, we highlight selected examples from the SEE community with an emphasis on results in the last two years. Examples are classified based on technique or approach and include purely electrochemical examples, as well as opto-electrochemical examples. Additional considerations related to sample preparation, which proves to be critical for SEE, are also highlighted. Future prospects are considered as well, in context of where the field resides today.

NANOELECTRODES FOR SINGLE-ENTITY ELECTROCHEMISTRY

The most straightforward SEE measurement consists of a single electrode employed to measure a single entity.

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Comprehensive Treatise of Electrochemistry: Bioelectrochemistry John O'M. Bockris, B. E. Conway, Ernest B. Yeager, 1980

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Scientific and Technical Aerospace Reports, 1969 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

5th European Symposium on Electrochemical Engineering A. A. Wragg, 1999 Materials Aspects of Electrochemical Engineering is the main theme of this symposium It charts the way ahead for the future development and economic viability of all types of electrochemical processing

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Applications of Analytical Chemistry to Oceanic Carbon Cycle Studies National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Ocean Studies Board, Committee on Oceanic Carbon, 1993-02-01 This book both describes the chemical parameters that must be measured in the ocean in order to improve our understanding of the ocean's role in the global carbon cycle and recommends technologies of analytical chemistry that could be applied to these parameters Additionally the volume recommends how the federal government ocean scientists and analytical chemists could work together more closely to speed development of new instruments and implementation of new techniques

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