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Enhanced Oxygen Evolution Reaction Electrocatalysts

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Message from the Guest Editors

In spite of the many efforts made during the last decade to restrain pollution and mitigate the consequences of climate change, global temperatures keep rising. For this reason, the research on electrocatalytic water splitting has experienced a huge surge of interest. In particular, the development of efficient advanced nanostructured materials for the electrocatalysis of the oxygen evolution reaction (OER) —electrocatalytic production of oxygen from water decomposition— has gained great importance. Mixed transition metal oxides, noble metal oxides, layered double hydroxides, metal selenides, carbon-based nanocomposites and single-atom catalysts are just a small sample of the immense variety of compositions and (nano)structuration degrees that have appeared in the last few years. For this reason, this Special Issue kindly invites submission for original research articles, as well as reviewing and progressing reports on the production, characterization, and testing of novel electrocatalysts for the primordial oxygen evolution reaction (OER) process.

Deadline for manuscript submissions:
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