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Aiming this reference work at a graduate level audience, Wieckowski (chemistry, U. of Illinois, US), Savinova (Boreskov Institute of Catalysis, Russian Academy of Sciences, Russia), and Vayenas (chemical engineering, U. of Patras, Greece) present 26 chapters describing recent work in nanoscale catalytic and electrocatalytic reactivity. After describing the current state of theory, papers deal with such subjects as change in the electronic and geometric properties of catalytic surfaces upon moving from single crystals to nanoparticles, the synthesis of nanoparticles catalysts and electrocatalysts, experimental techniques for the study of catalysts, and novel electrocatalytic materials.