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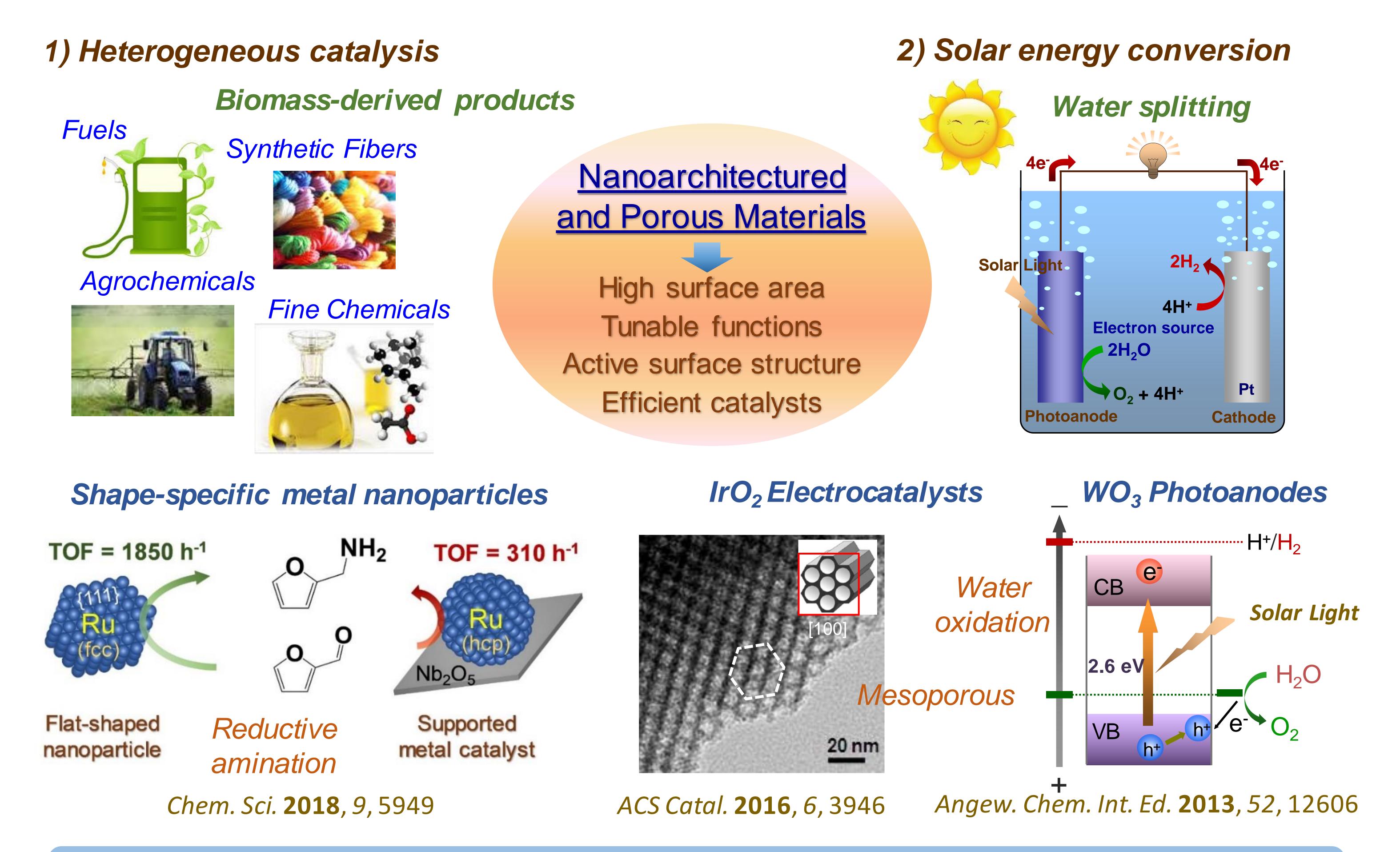
Smart Nanoarchitectures of Materials as Efficient Catalysts

Sustainable Chemical Resource Production Unit, WRHI, Institute of Innovative Research

http://www.msl.titech.ac.jp/~hara/index-e.html

Creating advanced nanoarchitectures of metals and metal-oxides

Tunable structural, surface and electronic properties for high activity Development of efficient catalytic system for production of valueadded chemicals and solar-fuel



Specific flat-shaped fcc Ru nanoparticles catalyst having a large fraction of atomically active {111} facets, produce various primary amines selectively at exceedingly high reaction rates

