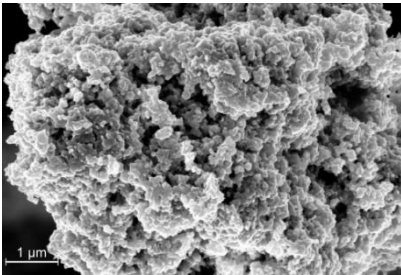
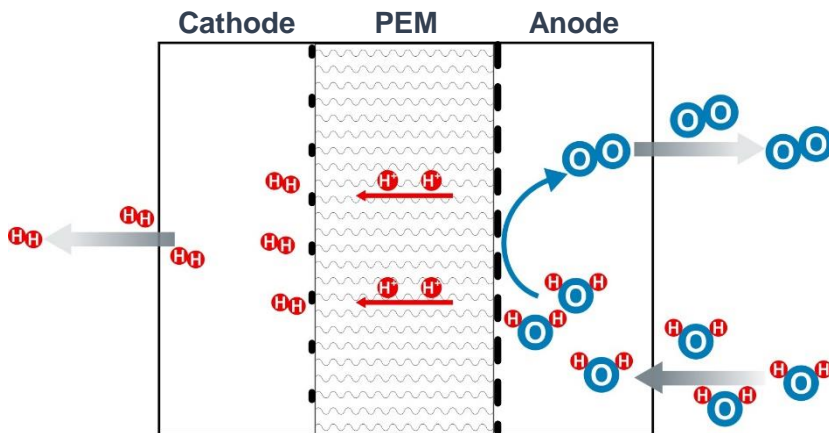


POLYMER ELECTROLYTE MEMBRANE ELECTROLYSIS

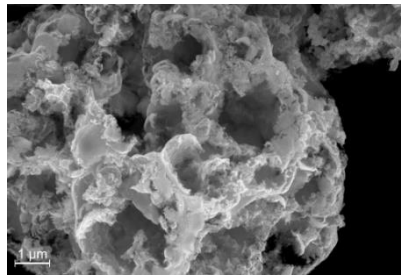
Heraeus Chemicals provides catalysts, cathode and anode, to enhance the PEM electrolyzer performance.

- › Energy transformation at power excess from renewables
- › Hydrogen as the fuel of the future: PEM water electrolysis as highly flexible and efficient tool
- › Oxygen evolution catalyst: The challenging task in water splitting



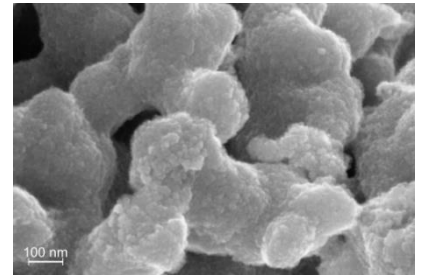
PLATINUM BLACK ●

- › high catalytic performance
- › high metal purity
- › nanoparticle cluster



IRIDIUM BLACK ●

- › high catalytic performance
- › high metal purity
- › sponge-like morphology



IRIDIUM(IV) OXIDE ●

- › high catalytic performance
- › high active surface area
- › nanoparticle network

	PLATINUM BLACK	IRIDIUM BLACK	IRIDIUM(IV) OXIDE
Specific Surface Area, m ² /g	20 - 35	21 - 25	150 - 180
Metal Content, wt. %	min. 97	min. 98	85.4 - 85.9
Particle Size Distribution (D50), µm	10 - 15	15 - 21	0.003 - 0.004

CONTACT

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