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High-Temperature Electrochemical Devices Based on Dense Ceramic Membranes for CO₂ Conversion and Utilization

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Electrochemical Energy Reviews, 2021, 4, 518-544.

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#	Paper	IF	Citations
14	Electrochemistry and energy conversion features of protonic ceramic cells with mixed ionic-electronic electrolytes. <i>Energy and Environmental Science</i> , 2021 ,	35.4	10
13	Enhanced CO ₂ electrolysis with synergistic doping in perovskite cathode materials. <i>New Journal of Chemistry</i> ,	3.6	0
12	In situ construction of hetero-structured perovskite composites with exsolved Fe and Cu metallic nanoparticles as efficient CO ₂ reduction electrocatalysts for high performance solid oxide electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2509-2518	13	5
11	Progress and potential for symmetrical solid oxide electrolysis cells. <i>Matter</i> , 2022 , 5, 482-514	12.7	0
10	Simultaneous Electrochemical Reduction of Carbon Dioxide and Partial Oxidation of Methane in a Solid Oxide Cell with Silver-Based Cathode and Nickel-Based Anode. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 034502	3.9	0
9	Towards sustainable CO ₂ electrochemical transformation via coupling design strategy. <i>Materials Today Sustainability</i> , 2022 , 100179	5	2
8	Improvement Co ₂ Electrochemical Activity of Lctn Fuel Electrode for Solid Oxide Electrolysis Cells Via an Electro-Reduction Activation Strategy. <i>SSRN Electronic Journal</i> ,	1	
7	Interface modification of Ru-CeO ₂ co-infiltrated SFM electrode and construction of SDC/YSZ bilayer electrolyte for direct CO ₂ electrolysis. <i>Electrochimica Acta</i> , 2022 , 426, 140771	6.7	0
6	Assessing performance degradation induced by thermal cycling in solid oxide cells. 2022 , 270, 116239		0
5	Enhanced oxygen bulk diffusion of La _{0.6} Sr _{0.4} FeO _{3-δ} fuel electrode by high valence transition metal doping for direct CO ₂ electrolysis in solid oxide electrolysis cells. 2023 , 439, 141659		0
4	Steric effects of CN vacancies for boosting CO ₂ electroreduction to CO with ultrahigh selectivity. 2022 , 59, 203-206		0
3	Enhanced Electrolysis of CO ₂ with Metal Oxide Interfaces in Perovskite Cathode in Solid Oxide Electrolysis Cell. 2022 , 12, 1607		0
2	Improvement CO ₂ Electrochemical Activity of LCTN Fuel Electrode for Solid Oxide Electrolysis Cells via an Electro-Reduction Activation Strategy. 2023 , 170, 034501		0
1	Advanced semiconductor catalyst designs for the photocatalytic reduction of CO ₂ . 2023 , 100193		0