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Nota di contenuto	Intro -- Abstract -- Kurzfassung -- Acknowledgements -- Content -- 1 Introduction -- 2 Overview of the publications -- 3 Influence of binder content in silver-based gasdiffusion electrodes on pore system andelectrochemical performance -- 3.1 Introduction -- 3.2 Experimental -- 3.3 Results and discussion -- 3.4 Conclusion -- 3.5 Conflict of Interest -- 3.6 Acknowledgments -- 3.7 References -- 4 Spatially resolved model of oxygen reductionreaction in silver-based porous gas-diffusionelectrodes based on operando measurements -- 4.1 Introduction -- 4.2 Experimental -- 4.3 GDE model -- 4.4 Results and discussion -- 4.5 Conclusion -- 4.6 Acknowledgements -- 4.7 Appendix -- 4.8 References -- 5 Experimental and model-based analysis ofelectrolyte intrusion depth in silver-based gasdiffusionelectrodes -- 5.1 Introduction -- 5.2 Results and Discussion -- 5.3 ORR activity of graded electrodes -- 5.4 Conclusion -- 5.5 Experimental Section -- 5.6 Acknowledgements -- 5.7 References -- 6 Concluding discussion -- Appendix -- References.