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Mohammad Amin Sadeghi, Mahmoudreza Aghighi, Jake Barralet, Jeff T.
Gostick

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Pore network modeling of reaction-diffusion in hierarchical porous particles: the effects of microstructure

Mohammad Amin Sadeghi^a – amin.sadeghi@mail.mcgill.ca

Mahmoudreza Aghighi^a – mahmoudreza.aghighi@mail.mcgill.ca

Jake Barralet^{b, c, d} – jake.barralet@mcgill.ca

Jeff T. Gostick^{a, d} – jgostick@uwaterloo.ca

^a *Department of Chemical Engineering, McGill University, Wong Building, 3610 University Street, Montreal, Quebec H3A 0C5, Canada*

^b *Faculty of Dentistry, McGill University, Strathcona Anatomy and Dentistry Building, Rue University, Montreal, Quebec H3A 0C7, Canada*

^c *Department of Surgery, Montreal General Hospital, Faculty of Medicine, McGill University, Montreal, Canada*

^d *Department of Chemical Engineering, University of Waterloo, 200 University Avenue West, Waterloo, Ontario N2L 3G1, Canada*

Corresponding author at: Department of Chemical Engineering, University of Waterloo, E6-5012, 200 University Ave. W, Waterloo, ON, N2L 3G1. **Email address:** jgostick@uwaterloo.ca

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