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TEN MOST IMPORTANT PUBLICATIONS RELATED TO THE APPLICATION

1. P. Kuusela, A. Seppänen: "A coupled, double layer electrical impedance tomography -based sensing skin for pressure and leak detection", *Sensors*, 24: 4134, 2024.
2. A. Voss, E. Vänskä, D Weidmann, A. Pulkkinen, A. Seppänen: "Multi-open-path laser dispersion spectroscopy combined with Bayesian state estimation for localizing and quantifying methane emissions", *Atmospheric Environment: X*, 22: 100260, 2024.
3. M. Ziaul Arif, A. Seppänen, M. Vauhkonen: "State estimation approach to dual-modal imaging of two-phase flow based on electromagnetic flow tomography and electrical tomography", *Inverse Problems*, 39: 084003 (24pp), 2023.
4. J. Jauhiainen, A. Seppänen, T. Valkonen: "Mumford-Shah regularization in electrical impedance tomography with complete electrode model", *Inverse Problems*, 38: 065004 (35pp), 2022.
5. M. Ozon, A. Seppänen, J.P. Kaipio, K.E.J. Lehtinen: "Retrieval of process rate parameters in the general dynamic equation for aerosols using Bayesian state estimation", *Geoscientific Model Development*, 14: 3715–3739, 2021.
6. J. Jauhiainen, M. Pour-Ghaz, T. Valkonen, A. Seppänen: "Non-planar electrical resistance tomography -based sensing skins for structural health monitoring, *Computer-Aided Civil and Infrastructure Engineering*, 36: 1488–1507, 2021.
7. J. Jauhiainen, P. Kuusela, A. Seppänen, T. Valkonen: "Relaxed Gauss–Newton Methods with Applications to Electrical Impedance Tomography", *SIAM Journal on Imaging Sciences*, 13(3), 1415-1445, 2020.
8. D. Liu, V. Kolehmainen, S. Siltanen, A. Seppänen: "A non-linear approach to difference imaging in EIT; assessment of the robustness in the presence of modelling errors", *Inverse Problems*, 31: 035012 (25pp), 2015.
9. M. Hallaji, A. Seppänen, M. Pour-Ghaz: "Electrical impedance tomography-based sensing skin for quantitative imaging of damage in concrete", *Smart Materials and Structures*, **23**: 085001, 2014.
10. K. Karhunen, A. Seppänen, A. Lehikoinen, P.J.M. Monteiro, J.P. Kaipio: "Electrical resistance tomography imaging of concrete", *Cement and Concrete Research*, 40: 137-145, 2010.