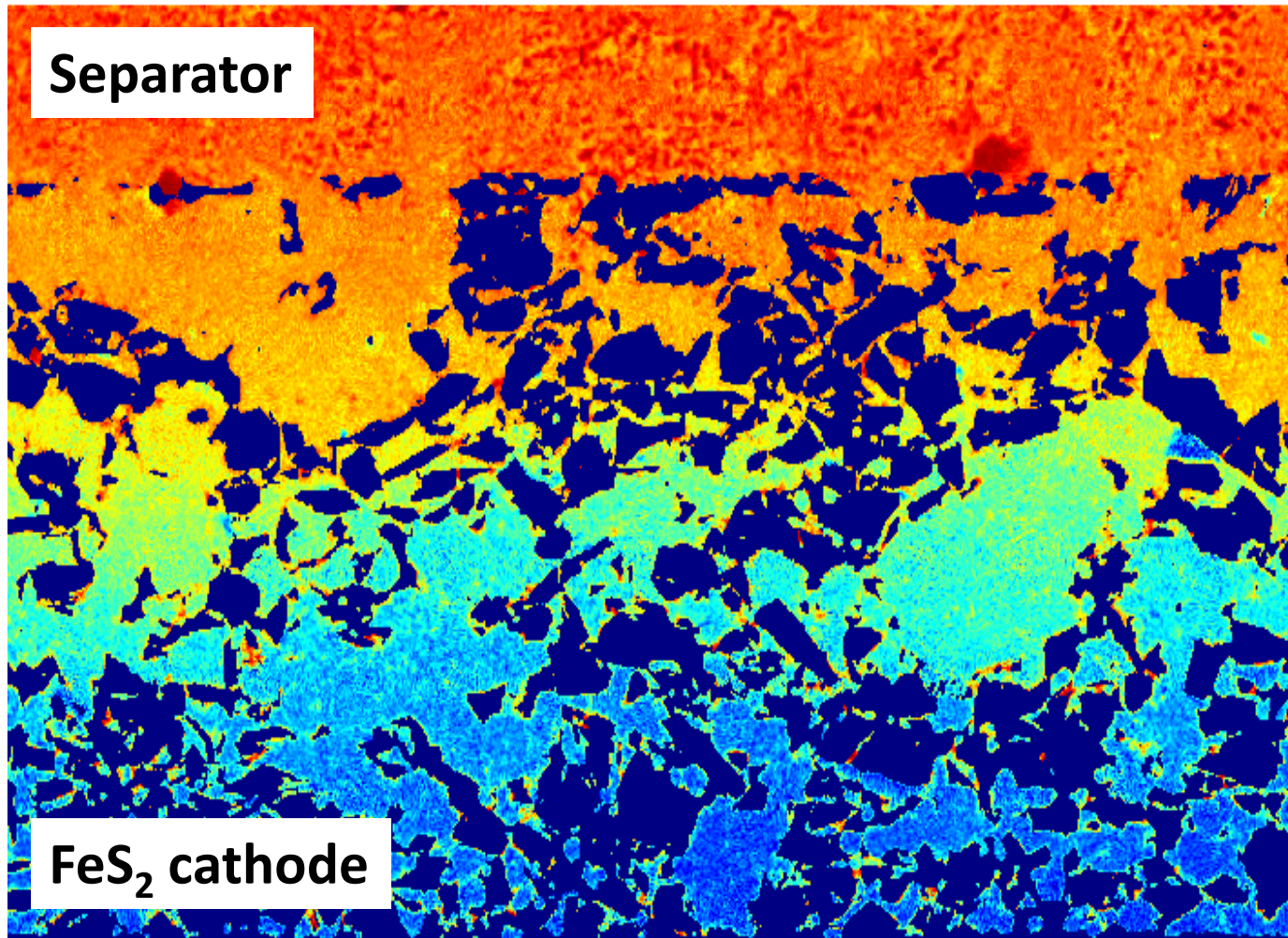


Ionic Conduction Through Composite Battery Cathodes

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Modern particle composite cathode architectures used in wide array of batteries including lithium ion and molten salt result in complex ionic conduction pathways. This image shows the diffusion of bromine ion in molten salt after 30 seconds of active time measured using microprobe analysis. The diffusivity of the ion pair and tortuosity of the cathode particle structure were calculated from a time series of quenched batteries.