Supplementary Information

Table S1. Changes in the pore diameters of alumina membranes after l	heat treatment.
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Electrolytes	Formation	Amorphous Alumina Membrane		α-alumina Membrane	
	Voltage (V)	Top (nm)	Rear (nm)	Top (nm)	Rear (nm)
Oxalic acid	40	62	20	69	58
Oxalic acid	60	79	60	87	79
Oxalic acid-phosphoric acid	100	164	97	179	152
Phosphoric acid	185	282	357	343	355

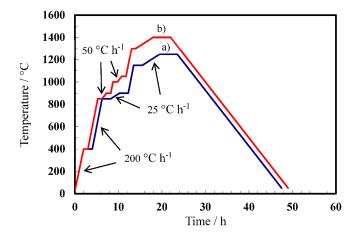


Figure S1. Elevated temperature process for crystallization of the alumina membranes formed at (a) 40 V and 60 V and (b) 100 V and 185 V.

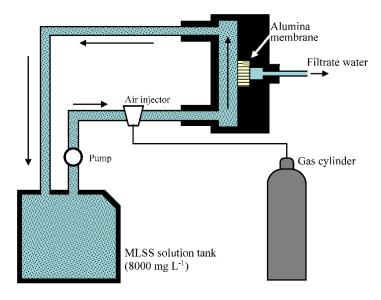


Figure S2. Setup for the filtration experiment.