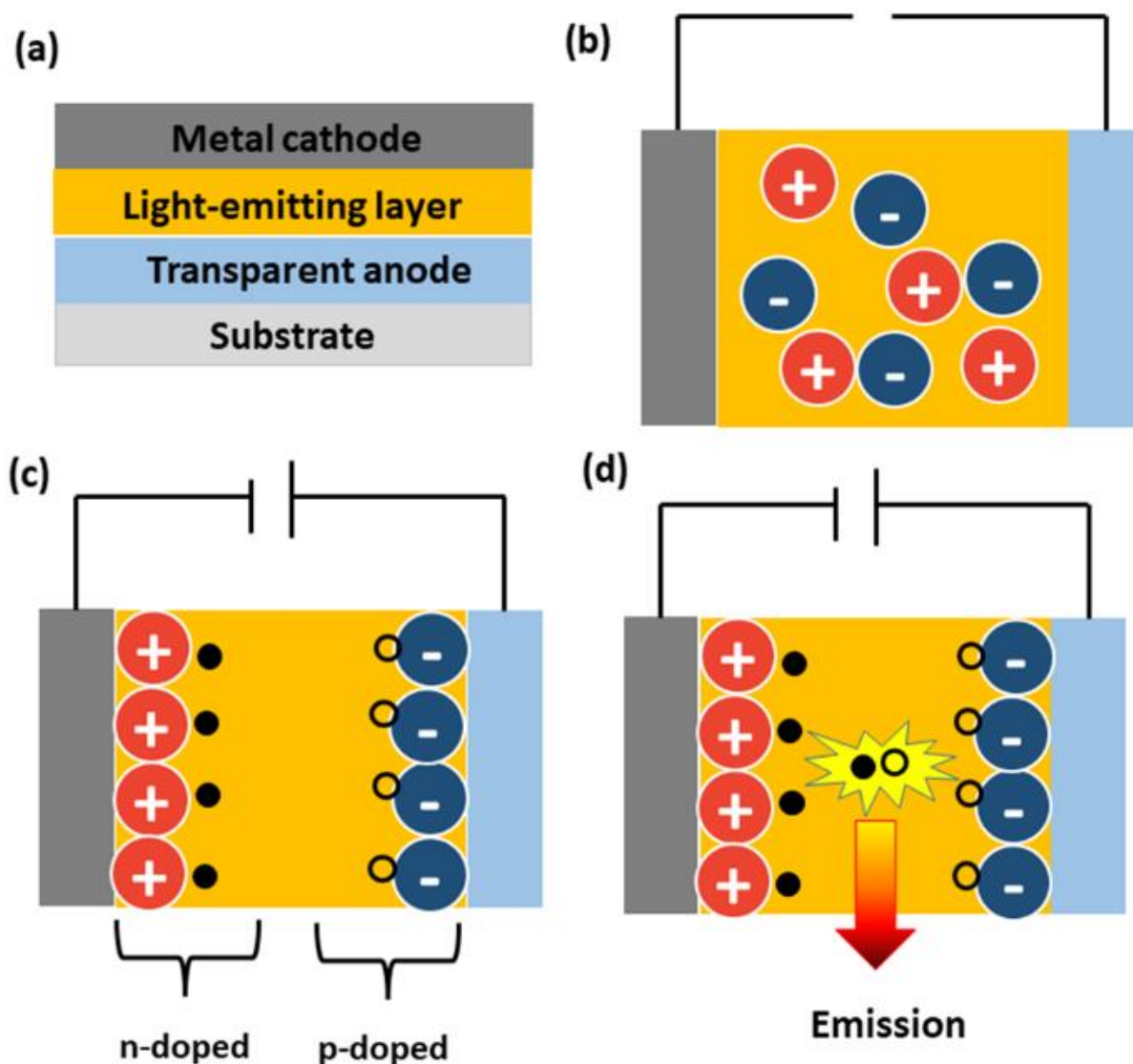


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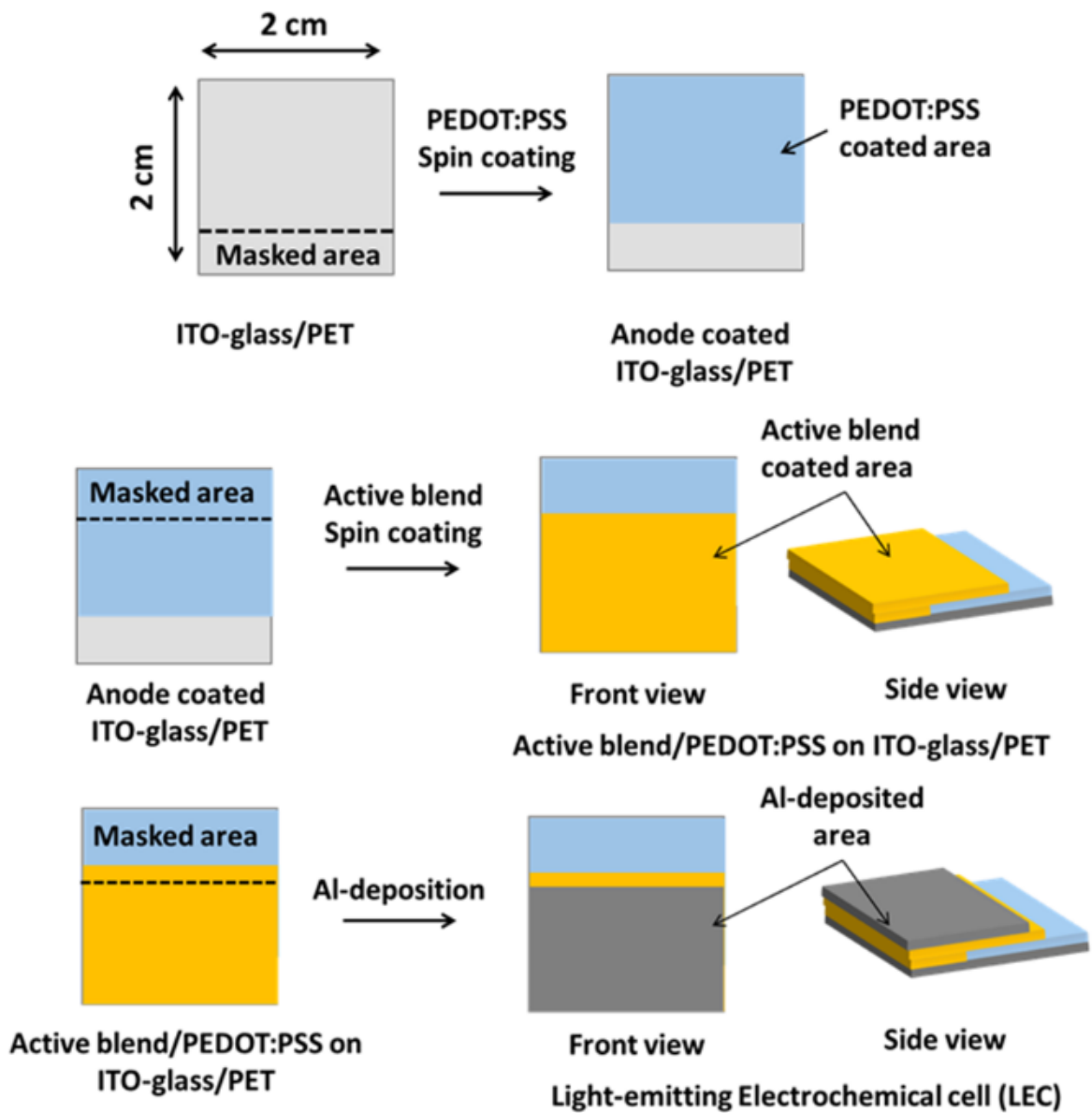
Supporting Information

## ***In Silico* Toxicity Screening as a Tool for the Development of Sustainable Electronics, Exemplified with Organic Light-Emitting Electrochemical Cells**

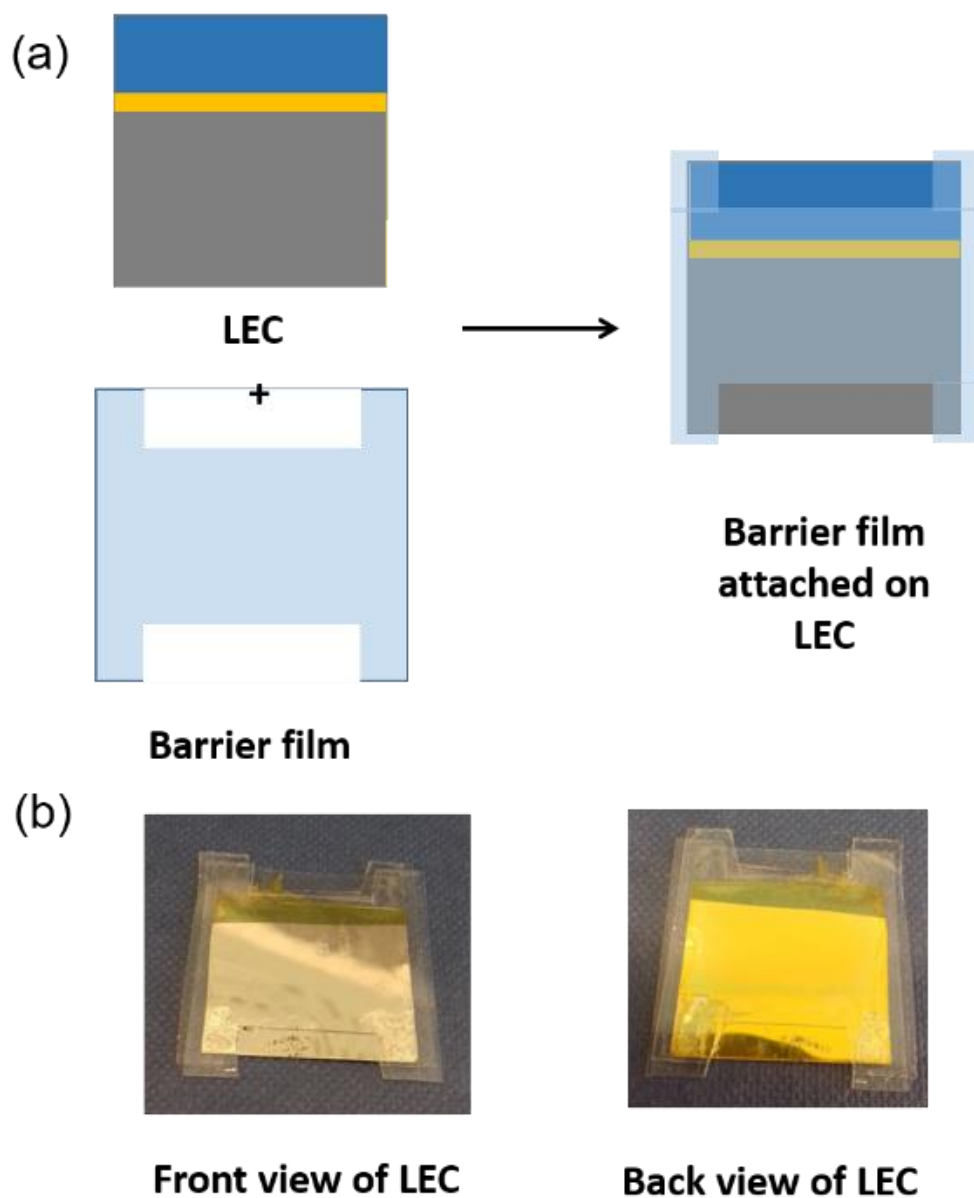
Papri Sutar, Thomas P. McGrath, Kunal Lulla, Christopher Somerton, Mark D. Ashton, Garry R. Harper, Nathan R. Halcovitch, Richard L. Mort, Karen L. Wright, Alison F. Stowell, David Bird, Robert J. Young,\* and John G. Hardy\*



**Figure S1.** Basic configuration and functional mechanism of LECs. a) Configuration of LECs. Schematic representation of LEC operation (b) before and (c) under an applied forward bias. (d) The recombination of injected electrons and holes in emissive layer caused by the redistribution of anions and cations.



**Figure S2.** The process used to prepare the LECs.



**Figure S3.** LEC preparation. a) Schematic showing the shape of the KM barrier film that is attached to LECs. b) Example photographs of the front and back view of the LECs.