Table S1. Comparison of the e-skin properties in this work with those in other publications.

Composition	**The properties of the native skin**						**Reference**
	Strain detection	Antibacteria	UV-sensitive	Optical Variability	Shape customizability	Immune function	
Silver nanowire, PLGA fibers + PVA fibers	√	√	-	-	-	-	[1]
PAAm + cellulose+ Na_2SO_4	√	-	-	√	-	-	[2]
PVA/PAMAA + NaCl + glycerol	√	-	-	-	-	-	[3]
Silver flake, silver plate, and EGaIn as metallic fillers + elastomer	√	-	-	√	-	-	[4]
PMMA + multiwalled carbon nanotubes (MVVCNTs)	√	-	-	-	√	-	[5]
PEDOT:PSS + cellulose nanofibril paper	√	-	-	-	√	-	[6]
Metal oxide nanofiber network + elastomer	√	-	√	-	-	-	[7]
Graphene + PVA + polydopamine + silver nanopartides	√	√	-	-	-	-	[8]
Bio-electrochemical liquid bridge (RC–LH1 protein, potassium ferrocyanide, and potassium ferricyanide) + electrodes	√	-	√	-	-	-	[9]
Silve r+ PVDF-TrFE:ZnO + quantum dots + hole transport layer + ITO/PET	√	-	-	√	-	-	[10]

PAAm-XgFe(III, II)-3	√	√	√	√	√	√	**This work**

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