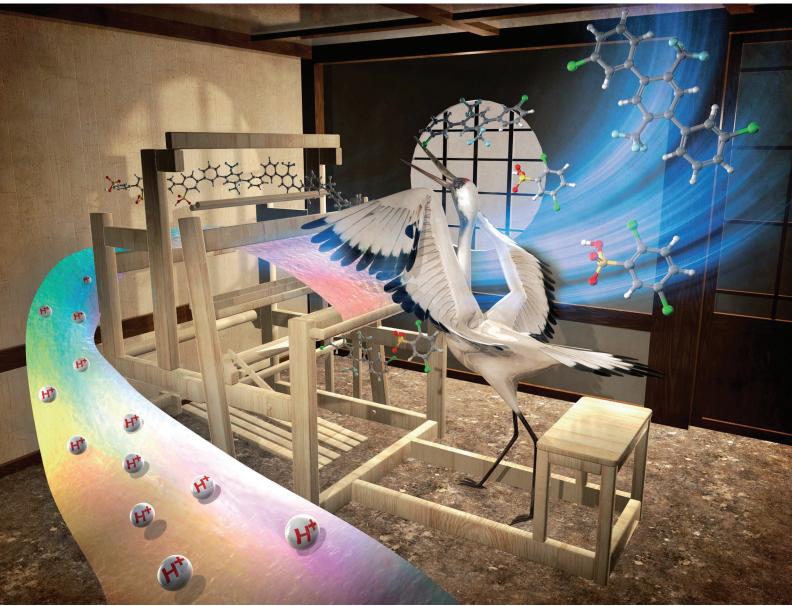
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**PAPER** Fanghua Liu and Kenji Miyatake Well-designed polyphenylene PEMs with high proton conductivity and chemical and mechanical durability for fuel cells