

Supporting information

Synthesis of Poly(methyl methacrylate-methallyl alcohol) *via* Controllable Partial Hydrogenation of Poly(methyl methacrylate) towards High Pulse Energy Storage Capacitors Application.

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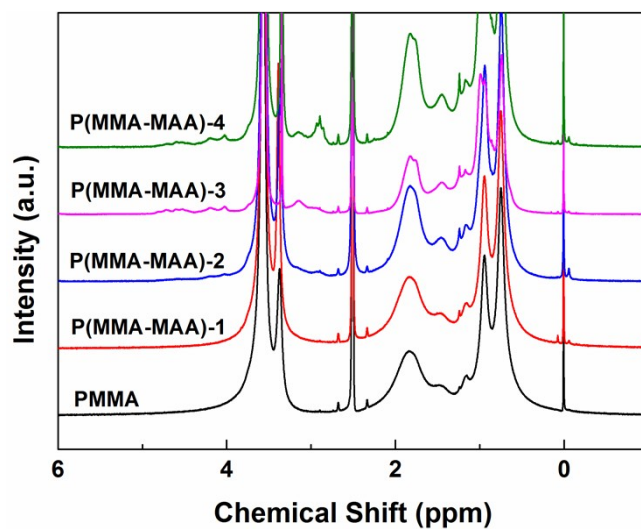


Fig. S1 ¹H NMR of pristine PMMA and As-formed P(MMA-MAA) copolymers with varied MAA content.

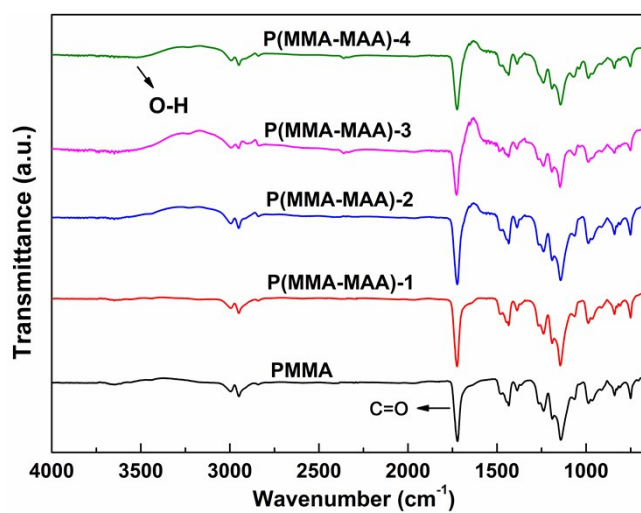


Fig. S2 FTIR of pristine PMMA and As-formed P(MMA-MAA) copolymers with varied MAA contents.

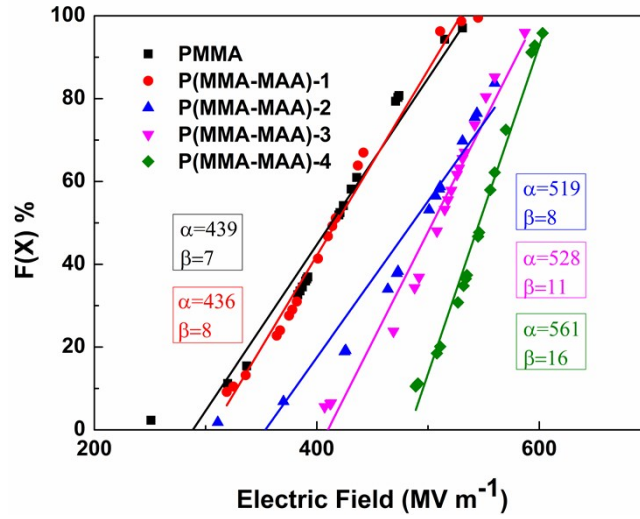


Fig. S3 Weibull plots for pristine PMMA and As-formed P(MMA-MAA) copolymers with varied MAA contents.

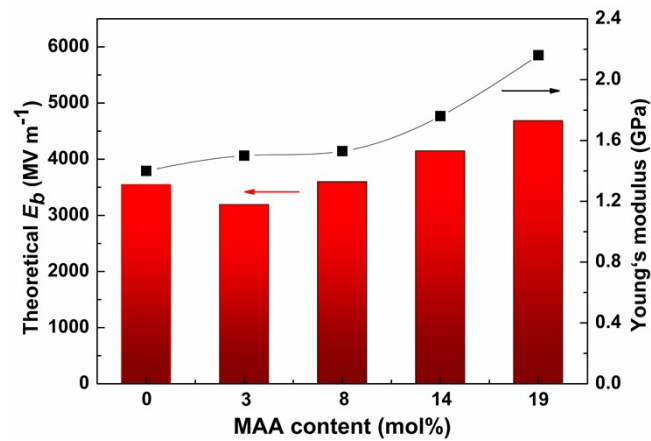


Fig. S4 Young's modulus and theoretical data of breakdown strength calculated based on the electromechanical model of pristine PMMA and As-formed P(MMA-MAA) copolymers with varied MAOH contents.

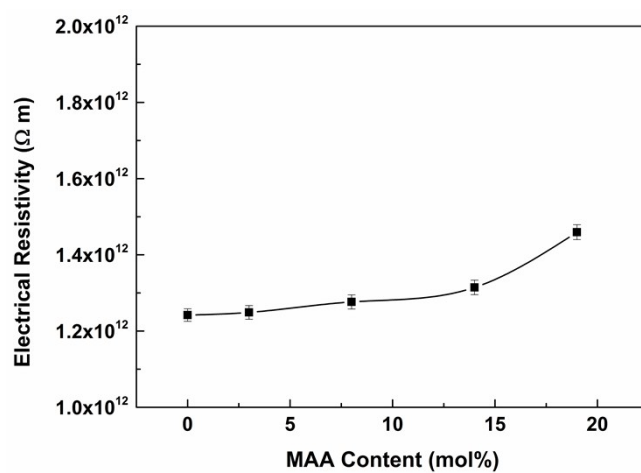


Fig. S5 Electrical resistivity of pristine PMMA and As-formed P(MMA-MAA) copolymers with varied MAA contents under an electric field of 50 MV m^{-1} .