Supplementary Information
Electrolyte-Driven Modulation of Charge Storage Mechanisms in Co Metal–Organic Frameworks for Advanced Supercapacitors

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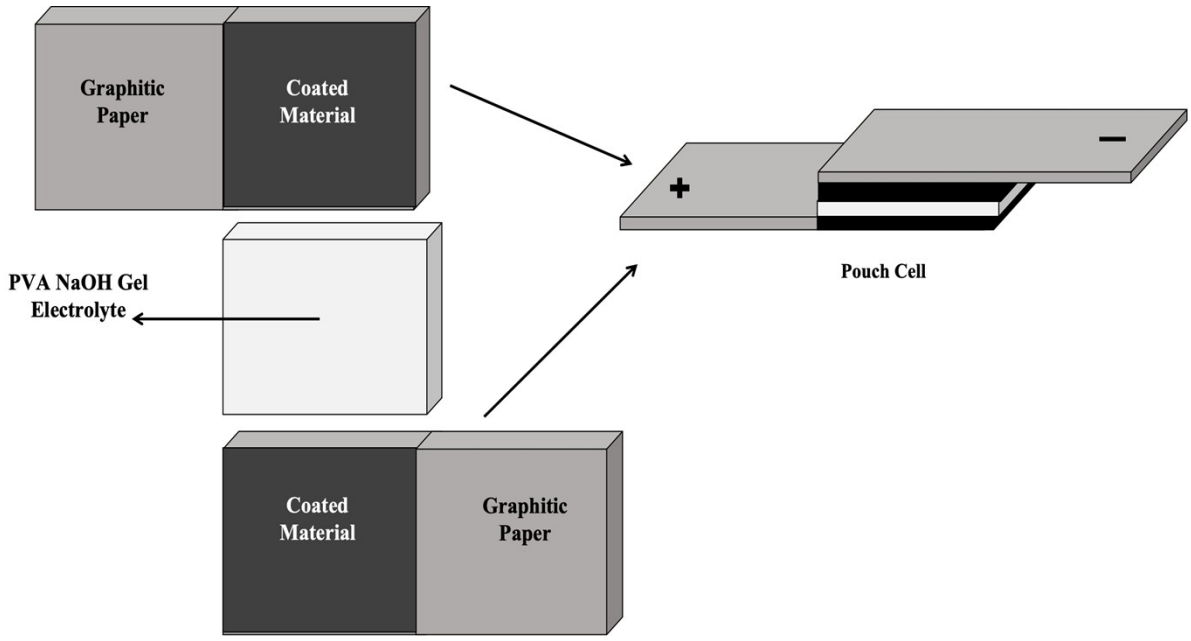

Figure. S1. Schematic illustration of Co-MOF Pouch Cell.

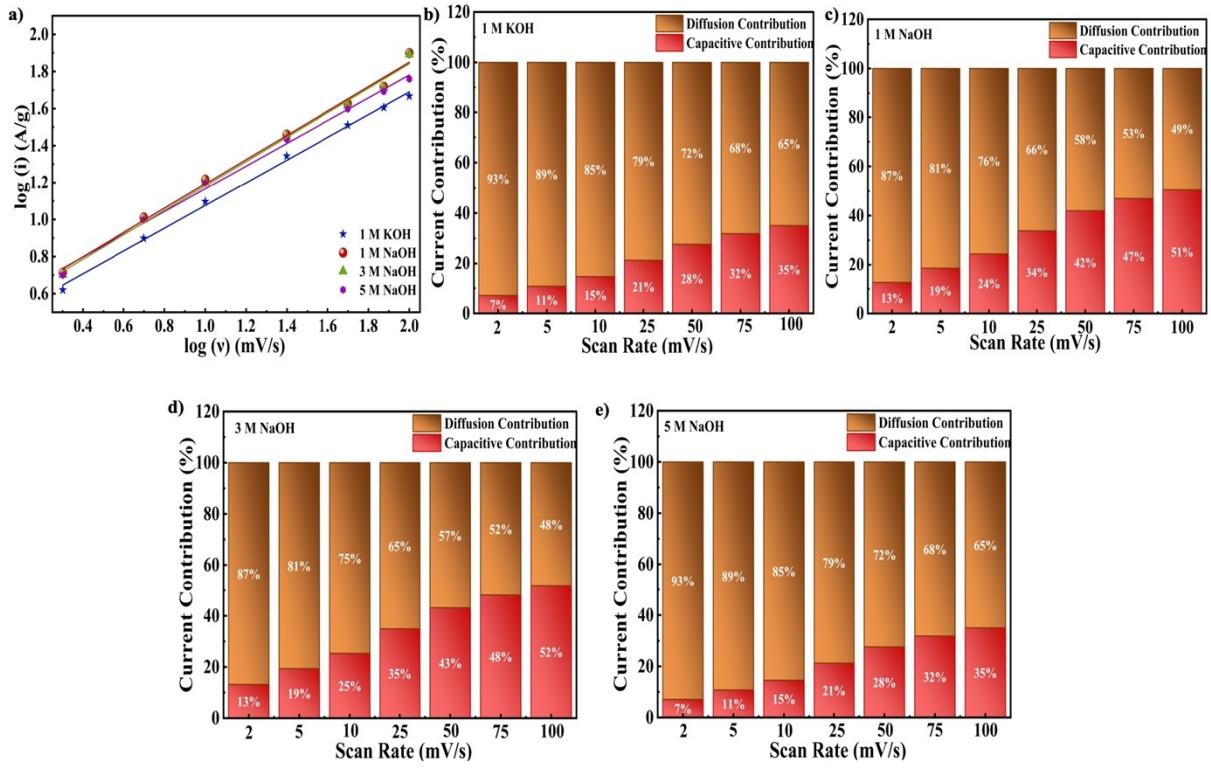

Fig. S2 (a) Log (i) vs Log (v) Analysis of Co-MOF in 1M KOH and 1M NaOH electrolytes at different molarities (3M NaOH and 5M NaOH), Analysis of Surface-controlled and Diffusion-controlled charge storage in Co-MOF for **(b)** 1M KOH **(c)** 1M NaOH **(d)** 3M NaOH **(d)** 5M NaOH

Table:

Table S1. Comparison of Electrochemical behaviour of Swagelok & Pouch cell using CV, GCD and Capacitance retention (%).

Device	CV (at 2mV/s)	GCD (at 0.25 A/g)	Retention (%)
Swagelok	37.7 F/g	14.9 F/g	43.96%
Pouch Cell	21.42	1.68 F/g	41.2 %

Table S2. Influence of bending angle on the C_{sp} of the flexible device.

Bending Angle(°)	**Specific Capacitance(F/g)**
0	3.17
45	5.64
90	11.35