

Supporting information

Preparation of quasi-core/shell structured composite energetic materials to improve the combustion performance

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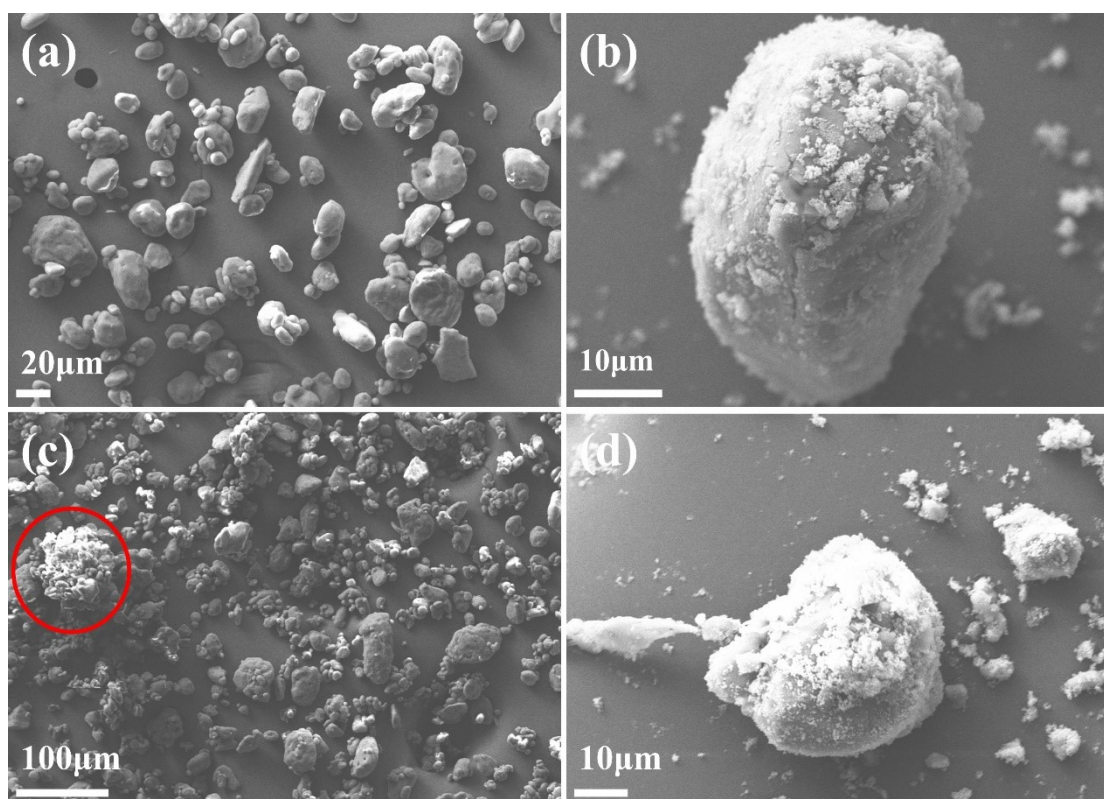


Fig. S1. SEM images of (a) pRDX-3h; (b) pRDX-3h@PTFE-Al; (c) pRDX-9h; (d) pRDX-9h@PTFE-Al

Table S1

Surface element composition of RDX, pRDX, and pRDX@PTFE-Al, as determined by XPS

Samples	C-1s (%)	N-1s (%)	O-1s (%)	Al-2p (%)	F-2p (%)	N/C
RDX	32.11	24.64	43.26	-	-	0.77
pRDX	34.76	23.66	41.58	-	-	0.68
pRDX@PTFE-Al	29.13	2.5	5.51	2.07	60.79	0.09

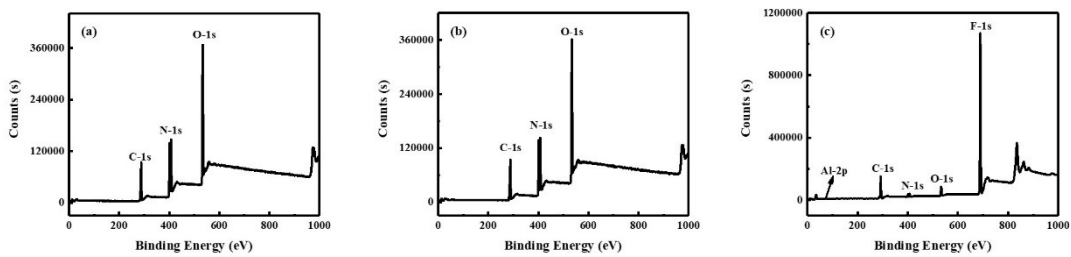


Fig. S2. XPS spectra of (a) raw RDX; (b) pRDX; (c) pRDX@PTFE-Al.

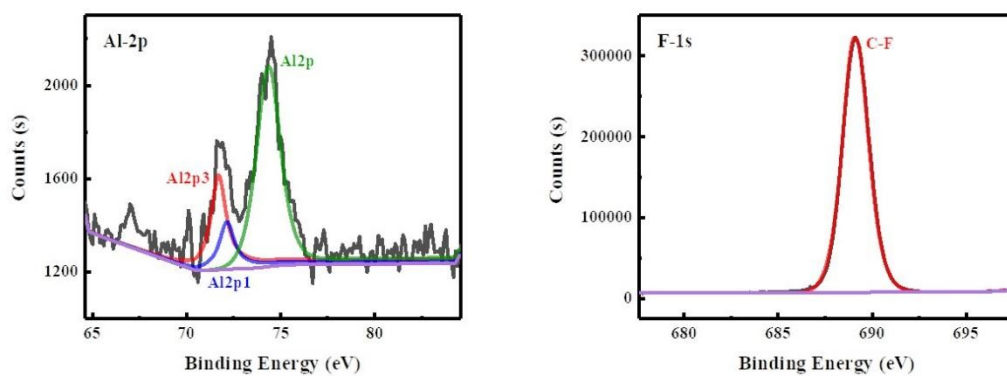


Fig. S3. High-resolution XPS spectra of Al and F elements in pRDX@PTFE-Al.

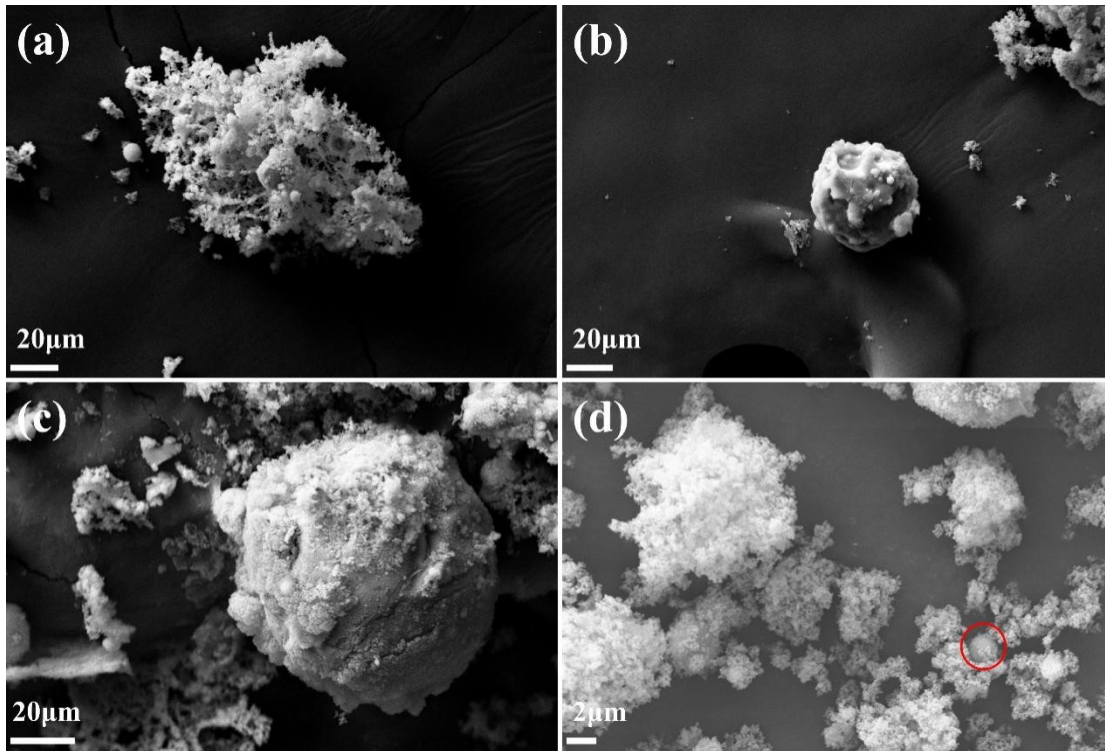


Fig. S4. SEM images of (a) (b) (c) combustion products; (d) raw Nano Al.