Electronic Supplementary Material (ESI) for RSC Advances.

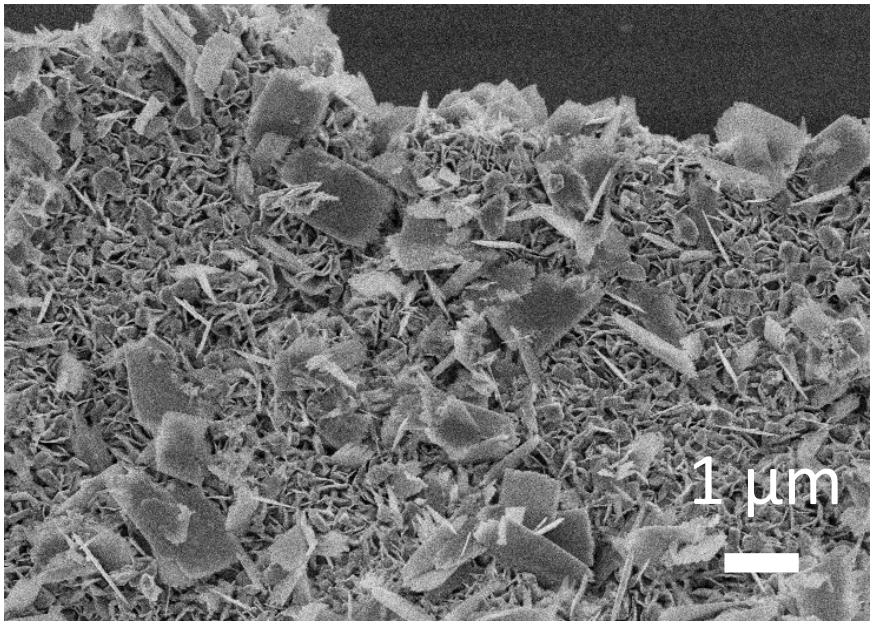

Fig. S 1: Low magnification of MoS_2-N1 nanomaterial.

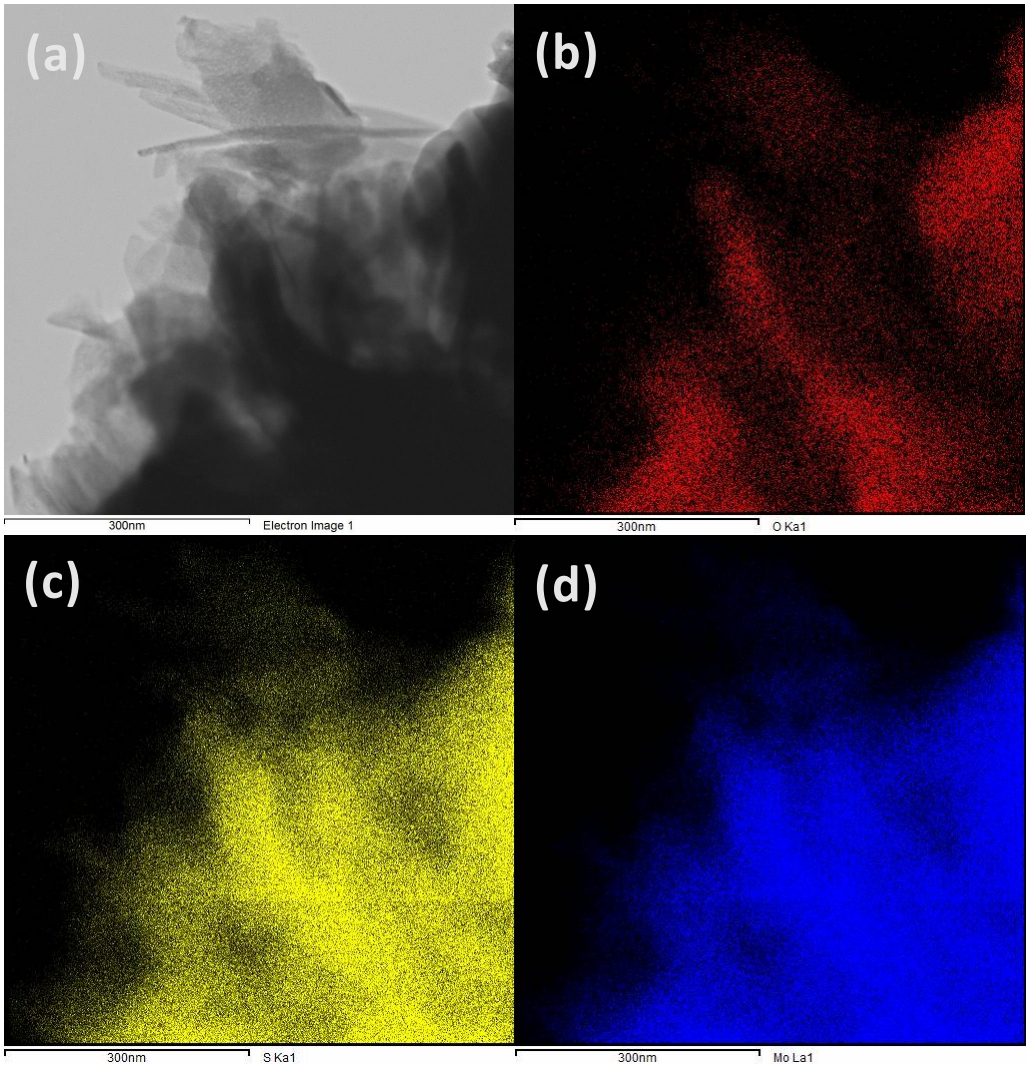

Fig. S 2: Elemental mapping of MoS_2-N1 nanomaterial; (a) TEM of MoS_2-N1, mapping for (b) Oxygen, (c) Sulphur and (d) Molybdenum

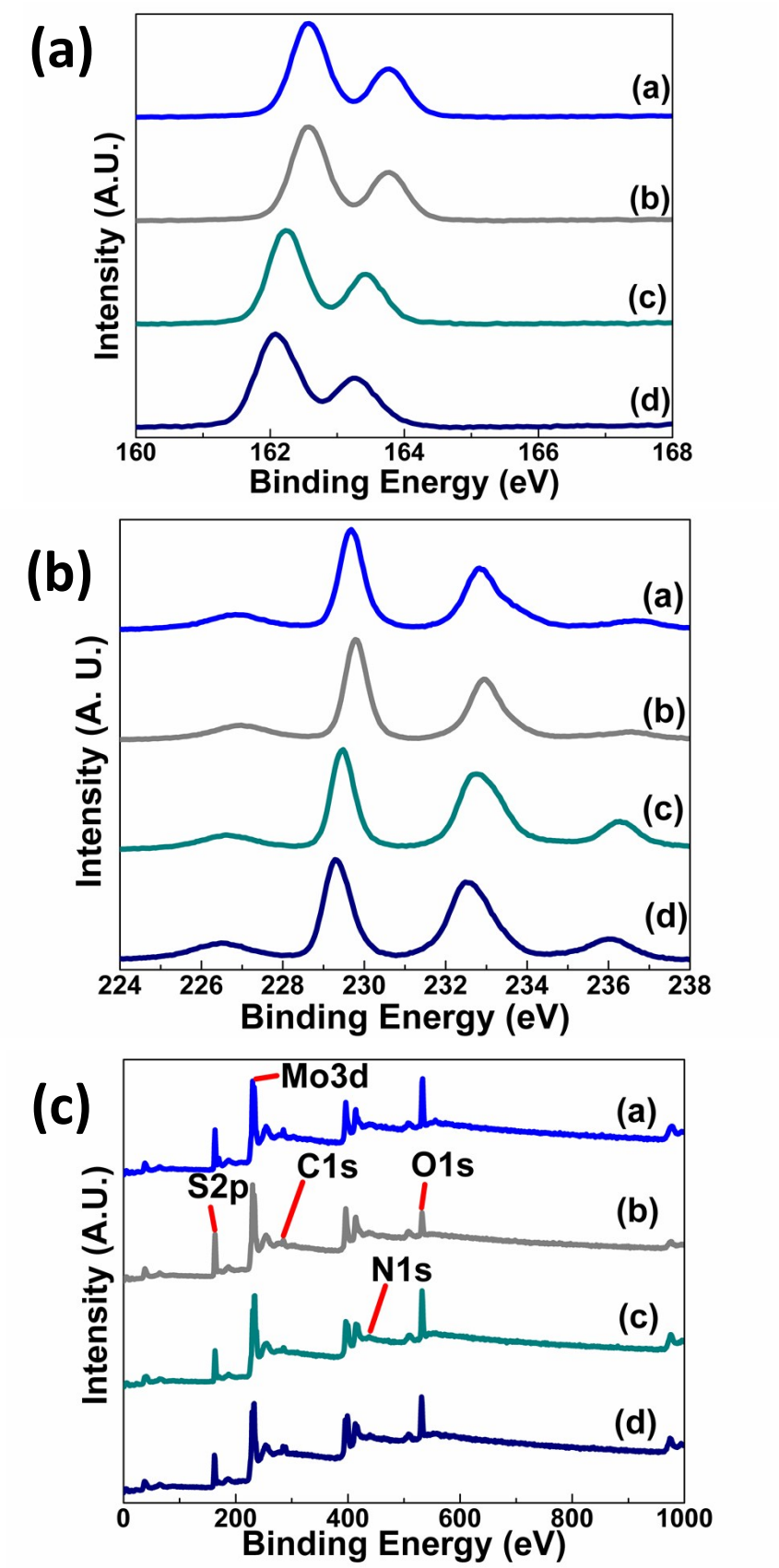

Fig. S 3: The XPS spectra for (a) S 2p, (b) Mo $3d_{5/2}$ and (c) Survey scans of MoS_2 (a), MoS_2-400 (b), MOS_2-N1 (c) and MoS_2 -N5 (d).

Table S 1: Energy density and specific capacitance of MoS_2, MoS_2-400, MoS_2-N1 and MoS_2-N5.

Sr. No.	**Current Density**	**MoS_2**		**MoS_2-400**		**MoS_2-N1**		**MoS_2-N5**	
		C_s (F/g)	Energy Density (Wh/Kg)	C_s (F/g)	Energy Density (Wh/Kg)	C_s (F/g)	Energy Density (Wh/Kg)	C_s (F/g)	Energy Density (Wh/Kg)
1	2	34.90	2.37	35.63	2.42	129.02	8.78	74.39	5.06
2	3	16.85	1.14	18.01	1.22	98.74	6.72	62.43	4.24
3	4	12.41	0.84	22.01	1.49	88.20	6.0	52.26	3.55
4	5	10.50	0.71	17.33	1.17	76.92	5.23	46.02	3.13