Supplemanetary Materials

Synthesis, Characterization, and Electrochemical Performance of a Redox-Responsive Polybenzopyrrole@Nickel Oxide Nanocomposite for Robust and Efficient Faraday Energy Storage

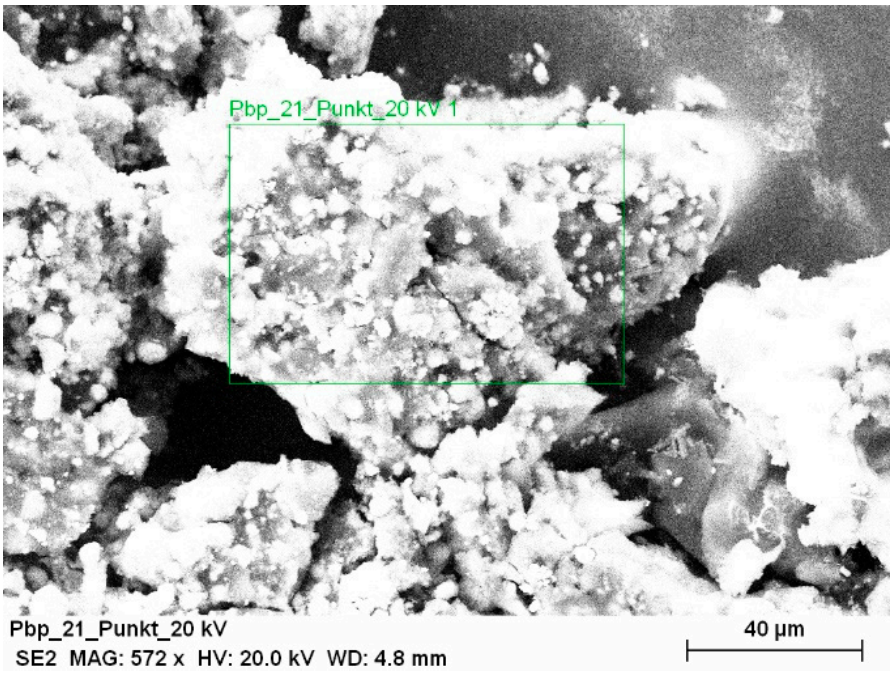
Bushra Begum [1], Salma Bilal [1,2,*], Anwar ul Haq Ali Shah [3] and Philipp Röse [2,*]

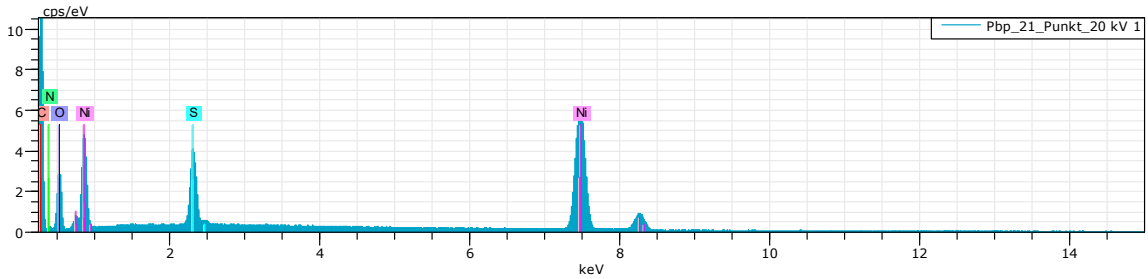
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EDX analysis of Pbp@NiO$_{0.1}$, Pbp@NiO$_{0.2}$ and Pbp@NiO$_{0.3}$

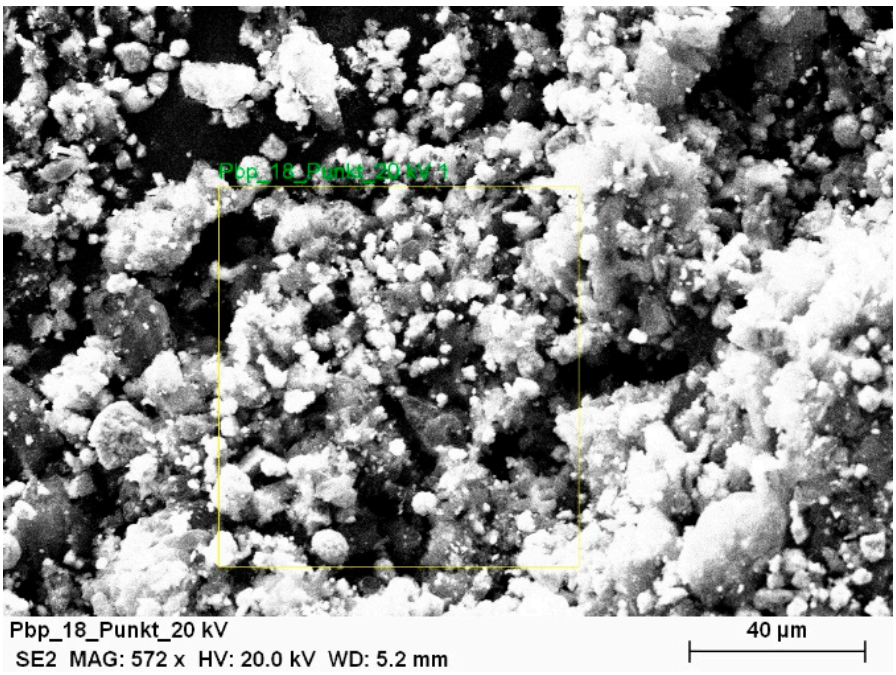
Pbp@NiO$_{0.1}$:

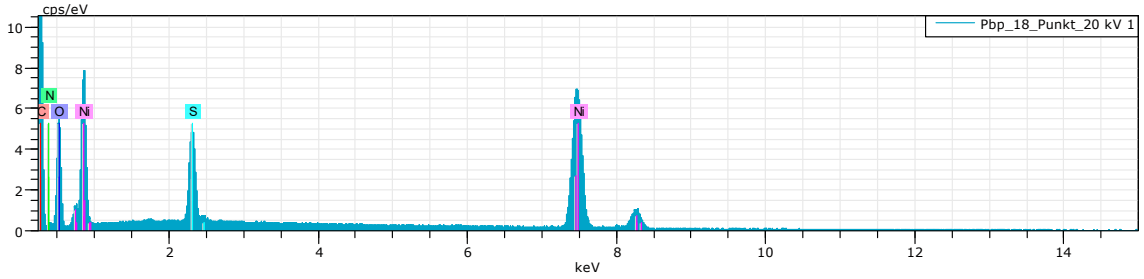




Element	AN	Series	Unn C [wt%]	Norm. C [wt%]	Atom C [wt%]	Error [%]
C	6	K-series	21.98	25.86	47.61	2.6
N	7	K-series	3.82	4.49	7.09	0.8
O	8	K-series	14.44	16.99	23.48	1.9
S	16	K-series	5.38	6.33	4.37	0.2
Ni	28	K-series	39.38	46.32	17.45	1.1

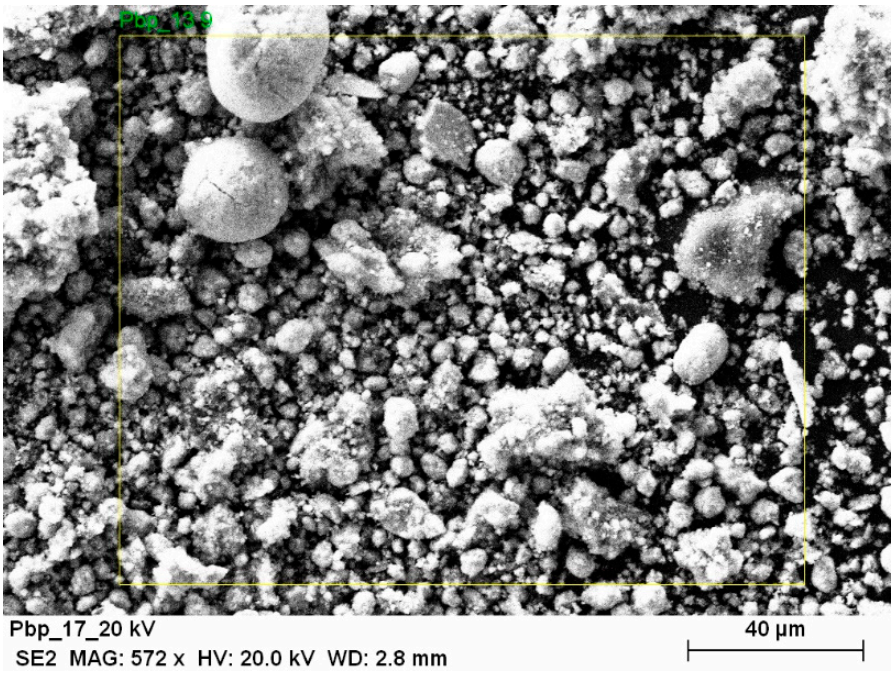
Pbp@NiO$_{0.2}$:

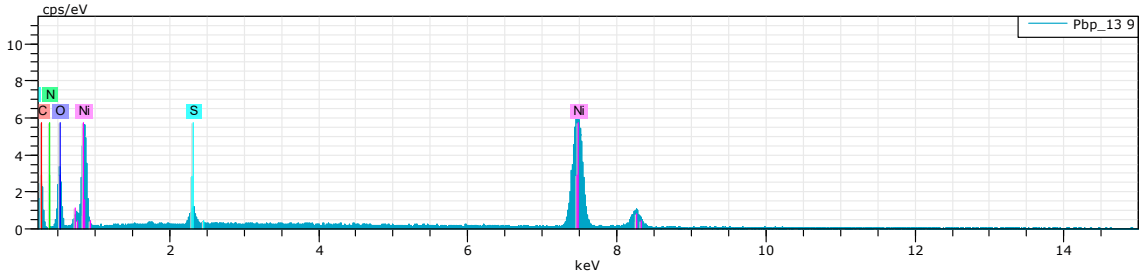




Element	AN	Series	Unn C [wt%]	Norm. C [wt%]	Atom C [wt%]	Error [%]
C	6	K-series	19.89	22.44	40.68	2.3
N	7	K-series	4.52	5.10	7.94	0.9
O	8	K-series	20.49	23.12	31.47	2.6
S	16	K-series	4.65	5.24	3.56	0.2
Ni	28	K-series	39.09	44.10	16.36	1.1

Pbp@NiO$_{0.3}$:





Element	AN	Series	Unn C [wt%]	Norm. C [wt%]	Atom C [wt%]	Error [%]
C	6	K-series	7.90	9.28	25.06	1.3
N	7	K-series	0.41	0.48	1.10	0.3
O	8	K-series	13.12	15.41	31.24	2.1
S	16	K-series	2.28	2.68	2.71	0.1
Ni	28	K-series	61.43	72.16	39.88	1.7

Elemental mapping of Pbp@NiO$_{0.1}$, Pbp@NiO$_{0.2}$ and Pbp@NiO$_{0.3}$

