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## Supporting information

## Degradable flexible piezoelectric nanogenerator based on two-dimensional barium titanate nanosheets and polylactic acid

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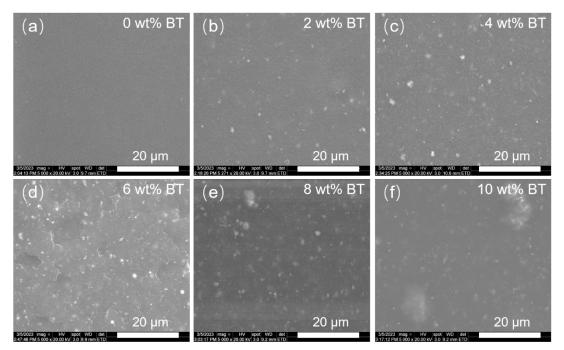


Fig. S1. SEM images of 2D BT/PLA nanocomposite film surfaces with 2D BT content of (a) 0

wt%, (b) 2 wt%, (c) 4 wt%, (d) 6 wt%, (e) 8 wt% and (f) 10 wt%

C	0 wt% BT	C	2 wt% BT	С	4 wt% BT	C	6 wt% BT	C	8 wt% BT	C	10 wt% BT
	20 µm		20 µm		20 µm		20 µm		20 µm		20 µm
0	0 wt% BT	0	2 wt% BT	0	4 wt% BT	0	6 wt% BT	0	8 wt% BT	0	10 wt% BT
	20 µm		20 µm		20 µm		20 µm		20 µm		20 µm
Ва	0 wt% BT	Ва	2 wt% BT	Ba	4 wt% BT	Ba	6 wt% BT	Ba	8 wt% BT	Ba	10 wt% BT
	20 µm	認識の	20 µm		20 µm		20 µm		20 µm		20 µт
Ti	0 wt% BT	Ţ	2 wt% BT	T	4 wt% BT	T	6 wt% BT	T X	8 wt% BT	Ť	10 wt% BT
	<u>20 µт</u>		20 µm		20 µm		20 µm		<u>20 µm</u>		<u>20 µm</u>

Fig. S2. EDS elemental mapping images of 2D BT/PLA nanocomposite films with different BT

contents.

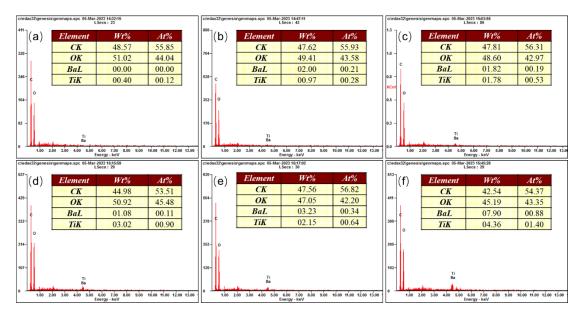
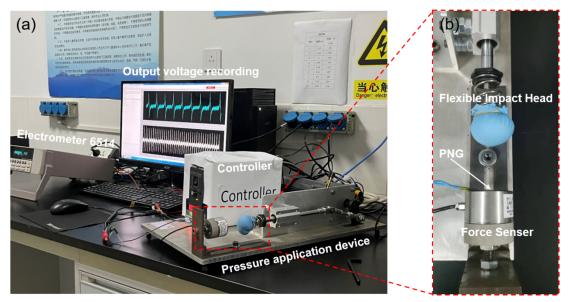


Fig. S3. EDS spectra of two-dimensional BT/PLA nanocomposite film surfaces with (a) 0 wt%, (b) 2 wt%, (c) 4 wt%, (d) 6 wt%, (e) 8 wt% and (f) 10 wt% of two-dimensional BT.



**Fig. S4**. (a) shows a physical view of the piezoelectric test system, and (b) shows an enlarged view of part of the details of (a).