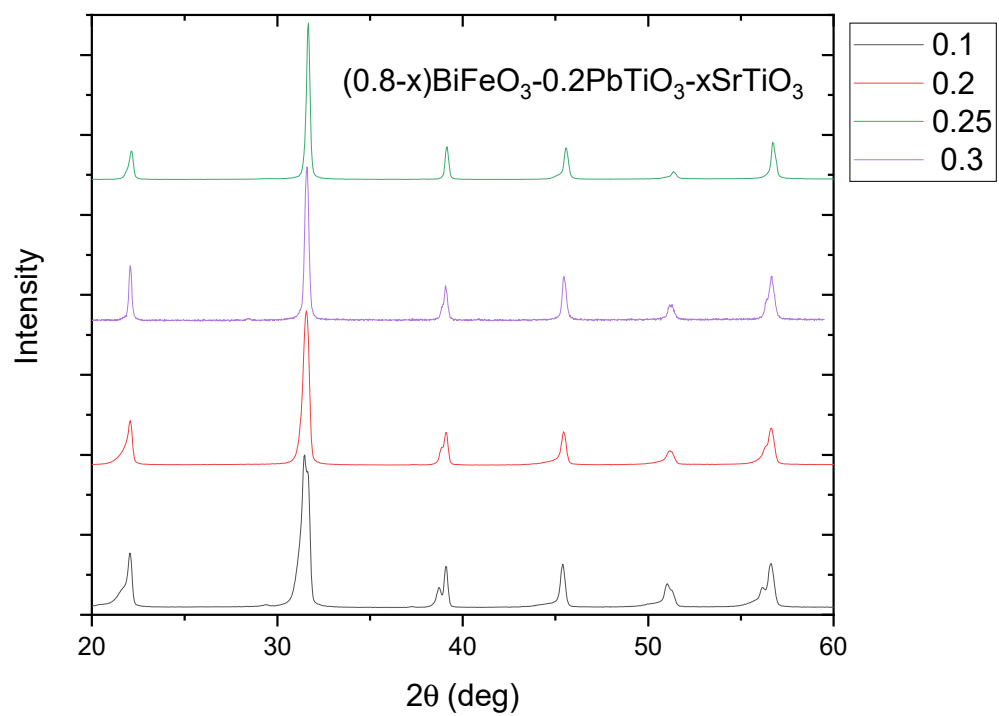


## Supplementary Information

**Table S1.** Relative density and piezoelectric properties.

	Composition	Type	Relative Density (%)	d <sub>33</sub> (pC/N)
I	0.40BFO-0.20PT-0.40ST	C	98	0
	0.45BFO-0.20PT-0.35ST	PC	98	25
	0.50BFO-0.20PT-0.30ST	PC	97	140
	0.55BFO-0.20PT-0.25ST	PC	97	105
	0.60BFO-0.20PT-0.20ST	PC	-	81
	0.70BFO-0.20PT-0.10ST	Rh	-	28
	0.80BFO-0.20PT-0.00ST *	Rh	95	30
II	0.70BFO-0.00PT-0.30ST *	PC	-	60
	0.55BFO-0.15PT-0.30ST	PC	-	75
	0.50BFO-0.20PT-0.30ST	PC	97	140
	0.45BFO-0.25PT-0.30ST	PC	-	250
	0.40BFO-0.30PT-0.30ST	PC	98	145
III	0.40BFO-0.25PT-0.35ST	C	-	0
	0.50BFO-0.15PT-0.35ST	PC	97	120
	0.55BFO-0.10PT-0.35ST	C	97	0
	0.60BFO-0.15PT-0.25ST	PC	-	77
	0.50BFO-0.25PT-0.25ST	PC	-	80
	0.70BFO-0.10PT-0.20ST	Rh	95	60
	0.70BFO-0.20PT-0.10ST	Rh	96	28



**Figure S1.** XRD patterns.