

TABLE SI. Properties of well-known piezoelectric and piezomagnetic materials.^{21–25}

Parameters	Piezoelectric Phase						Piezomagnetic Phase			
	BaTiO ₃	PZT-5	PZN-PT	PMN-PT	PVDF	AlN	Metaglas	Galfenol (Fe-Ga)	Terfenol -D	Ni
$d_{31,p}$ (pC/N) or λ (ppm)	-90	-175	-950 to -1600	-800 to -1500	-16.5	2.65	30	200	2000	-36
$d_{33,p}$ (pC/N) or $d_{33,m} * 10^{-9}$ (m/A)	191	400	2000 to 2900	1500 to 3000	33	5.5	50.3	18	25	1.25
ϵ or μ_r	1700	1750	7200	5000	10	12	40,000	20	10	100
T_C (°C)	152	360	163	80	129	2000	395	700	650	630
ρ (g/cm ³)	6	7.7	8.2	7.8	1.78	3.26	7.18	7.7	7.8	8.9
Q_m	300	80	40	50	4	500	—	—	—	—
K_{33}	0.63	0.72	0.94	0.9 to 0.94	0.19	0.38	0.97	0.42	0.75	0.31
S_{11} (10 ⁻¹² m ² /N)	8.55	14.8	68 to 90	18 to 70	0.32	3.53	125	—	125	4.57
S_{33} (10 ⁻¹² m ² /N)	8.93	20	60 to 145	40 to 120	0.68	—	40	—	40	4.9