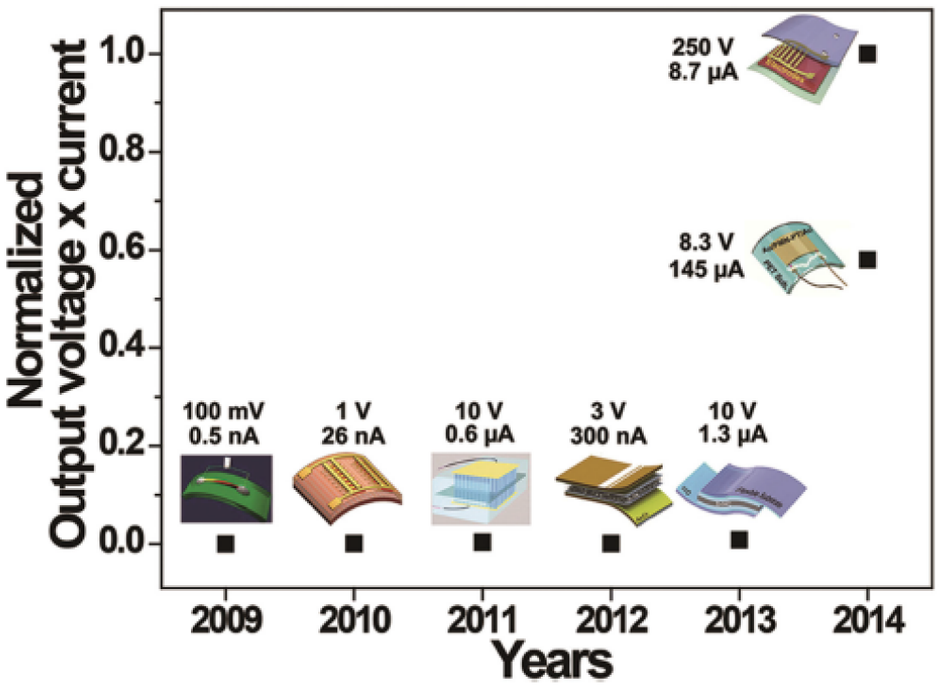
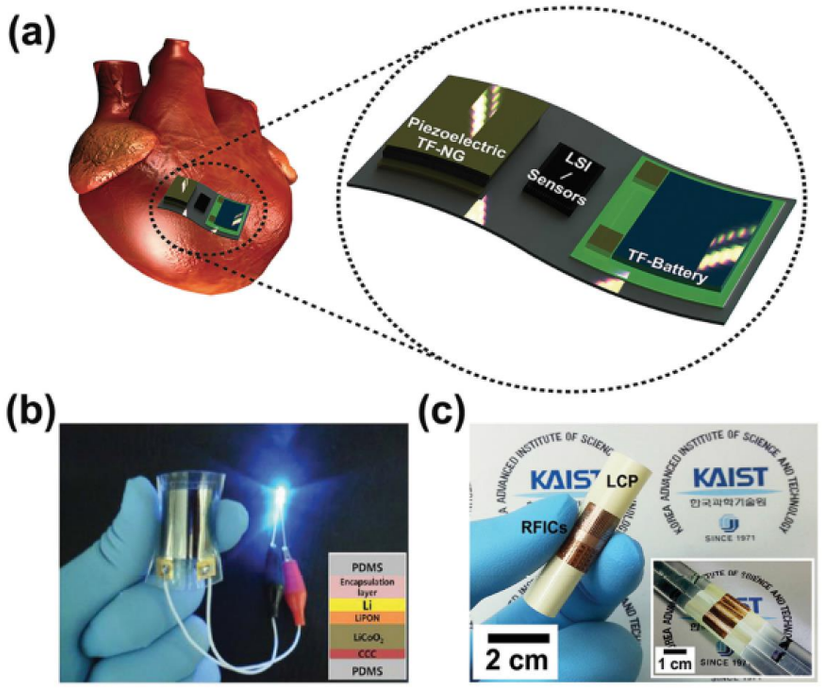
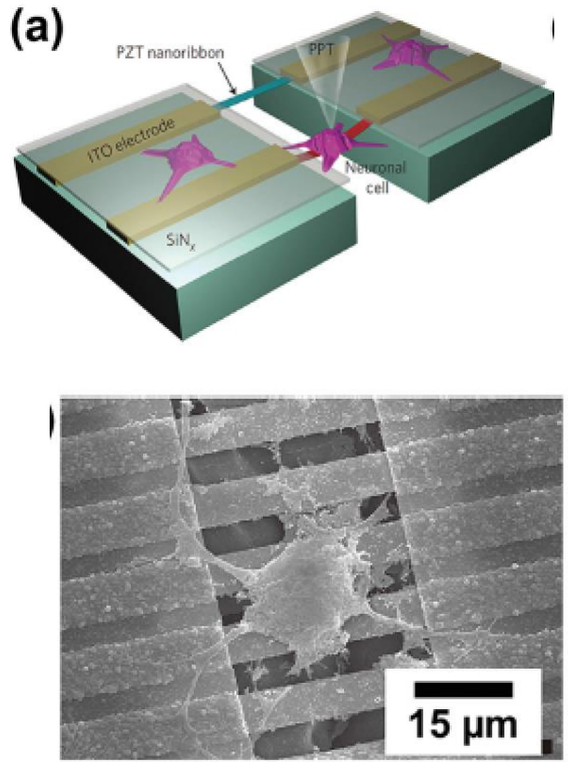
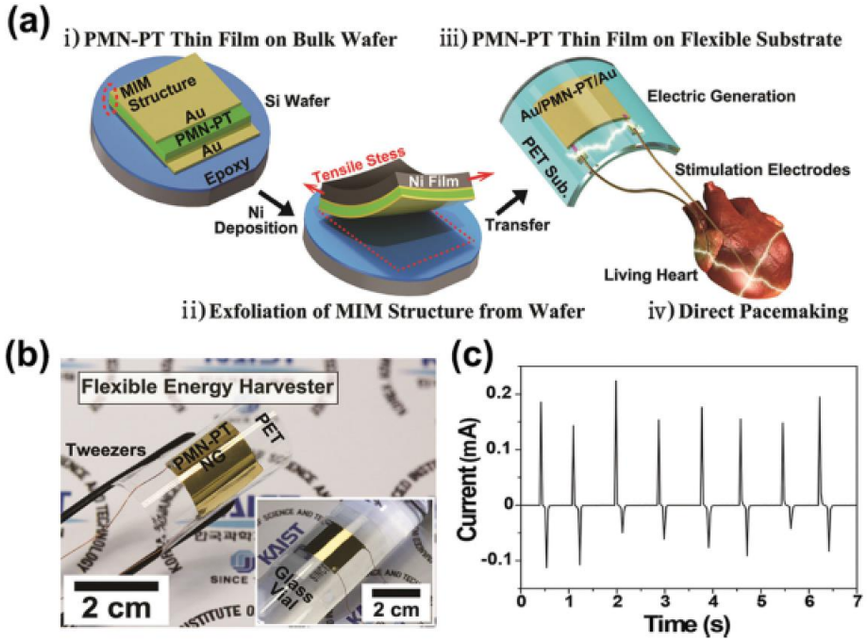
Autonomie : Eléments piezoélectriques

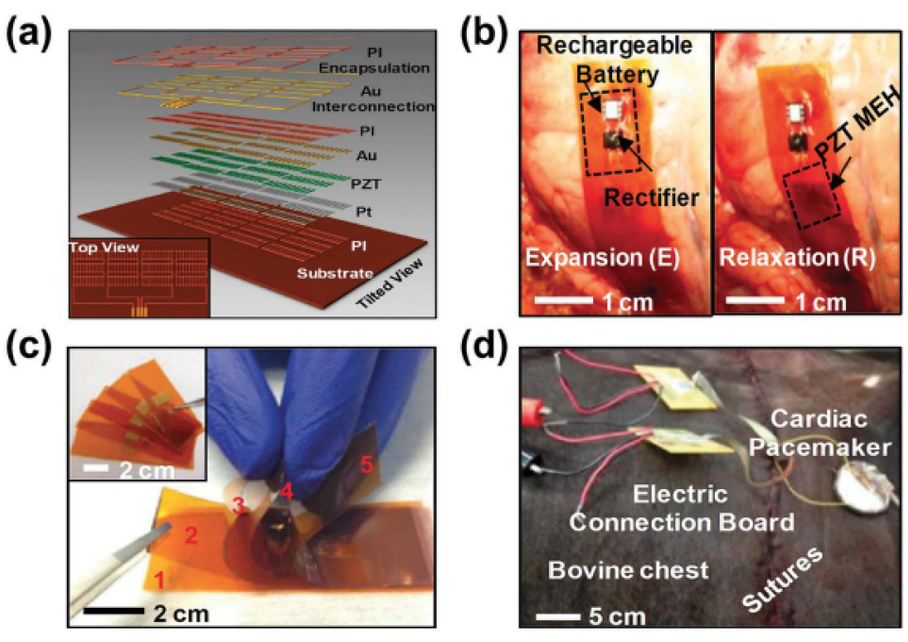
Geon-Tae Hwang , Myunghwan Byun , Chang Kyu Jeong , and Keon Jae Lee, « Flexible Piezoelectric Thin-Film Energy Harvesters and Nanosensors for Biomedical Applications », Advanced Healthcare materials,2014, 4.



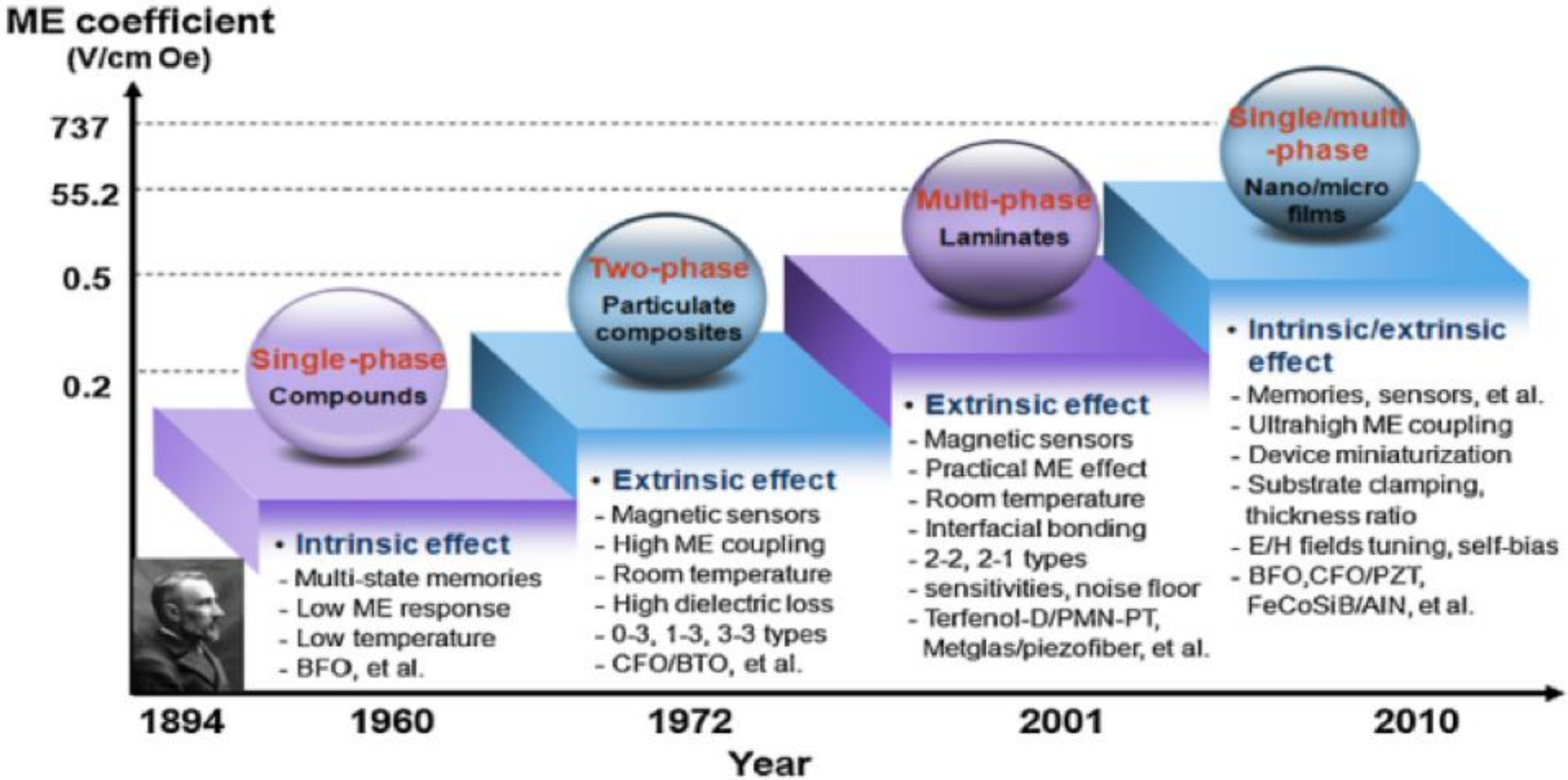




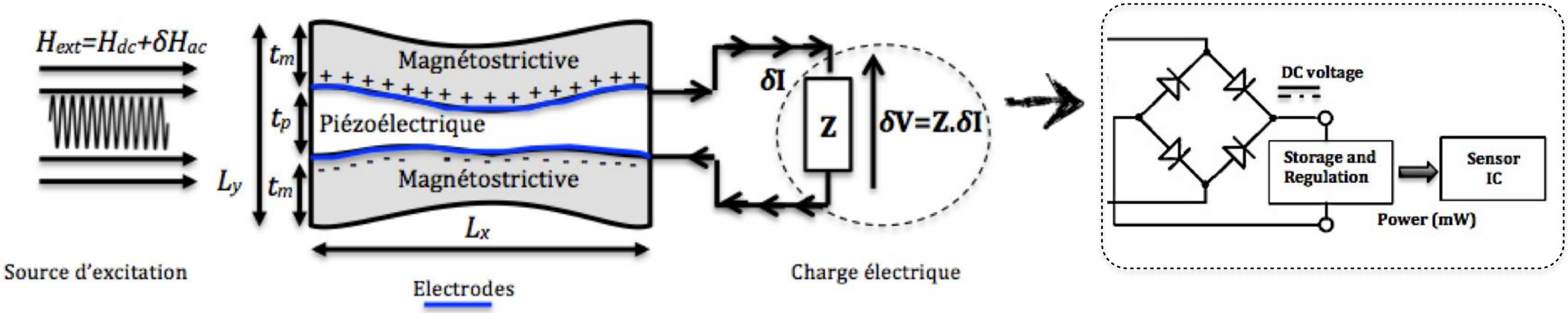




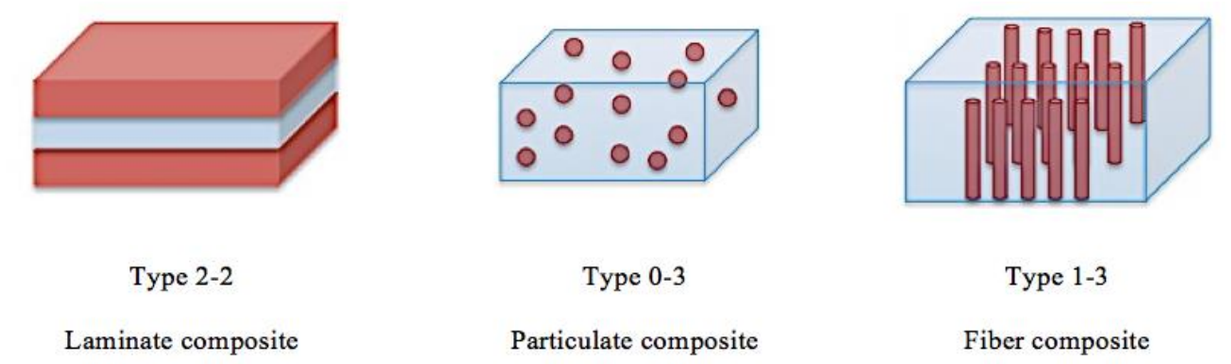
Matériaux magnétoélectriques



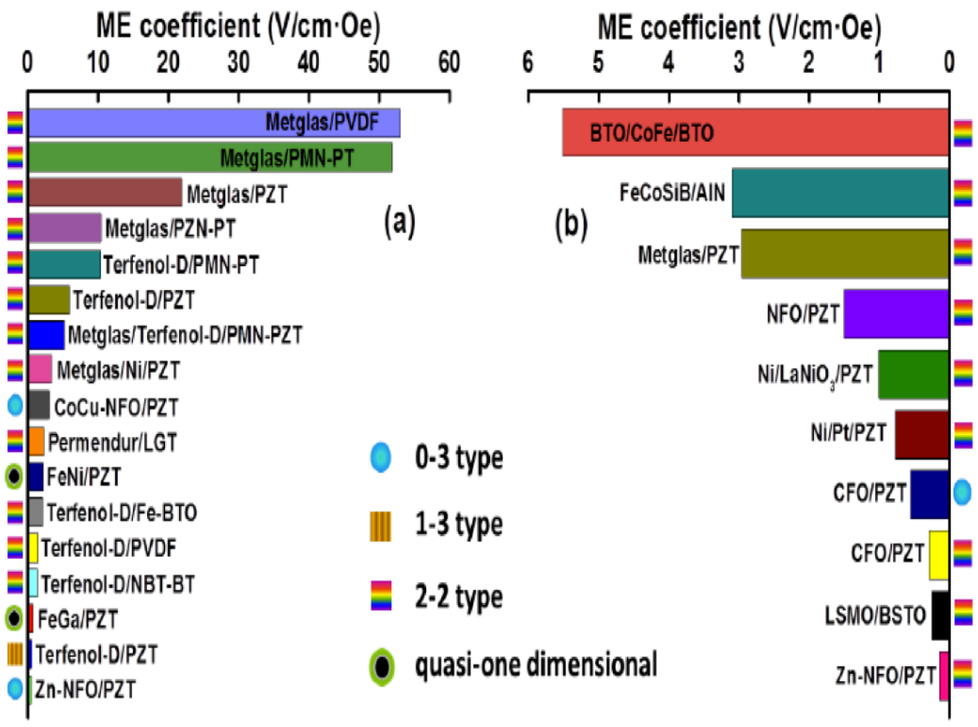
Transducteurs magnétoélectriques



Coefficient magnétoélectrique $\alpha_V = \delta V / \delta H_{ac}$



Transducteurs magnétoélectriques



H. Palneedi, V. Annapureddy, S.Priya and Jungho Ryu, "
Status and Perspectives of Multiferroic Magnetoelectric Composite Materials and Applications", Actuators 2016, 5, 9; doi:10.3390 act5010009.

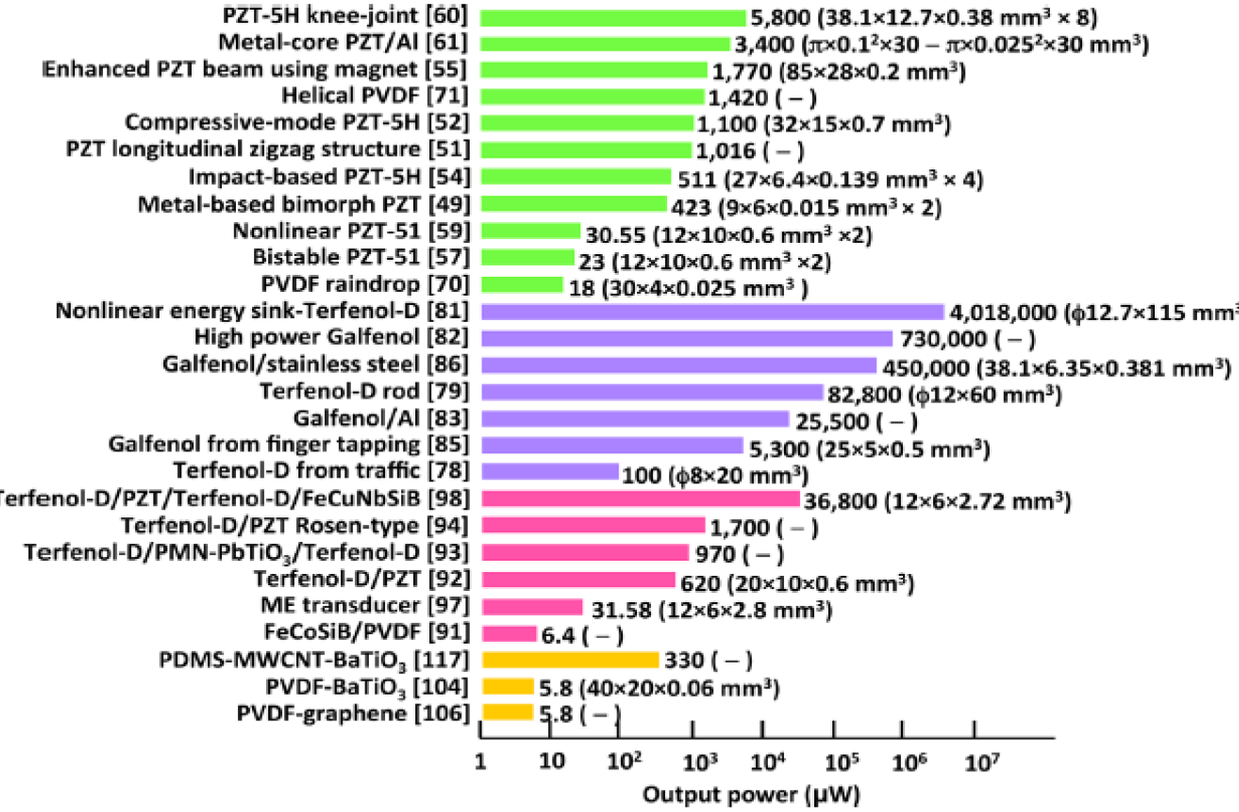
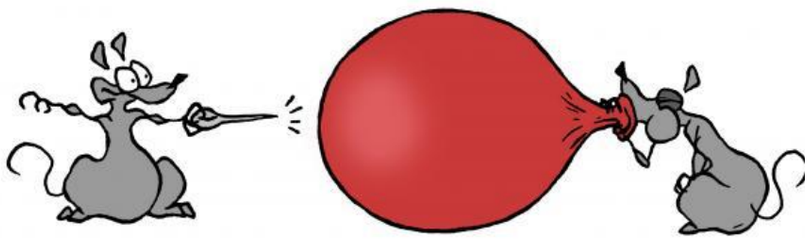
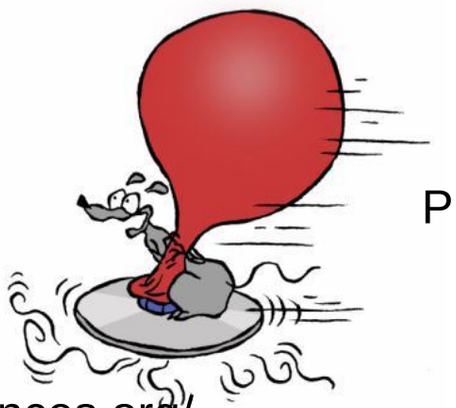


Figure 23. Progress of energy harvesters from 2015–2017.

Fumio Narita* and Marina Fox, A Review on Piezoelectric, Magnetostrictive, and, Magnetoelectric Materials and Device Technologies for Energy Harvesting Applications, Adv. Eng. Mater. 2017, 1700743

« Energie »

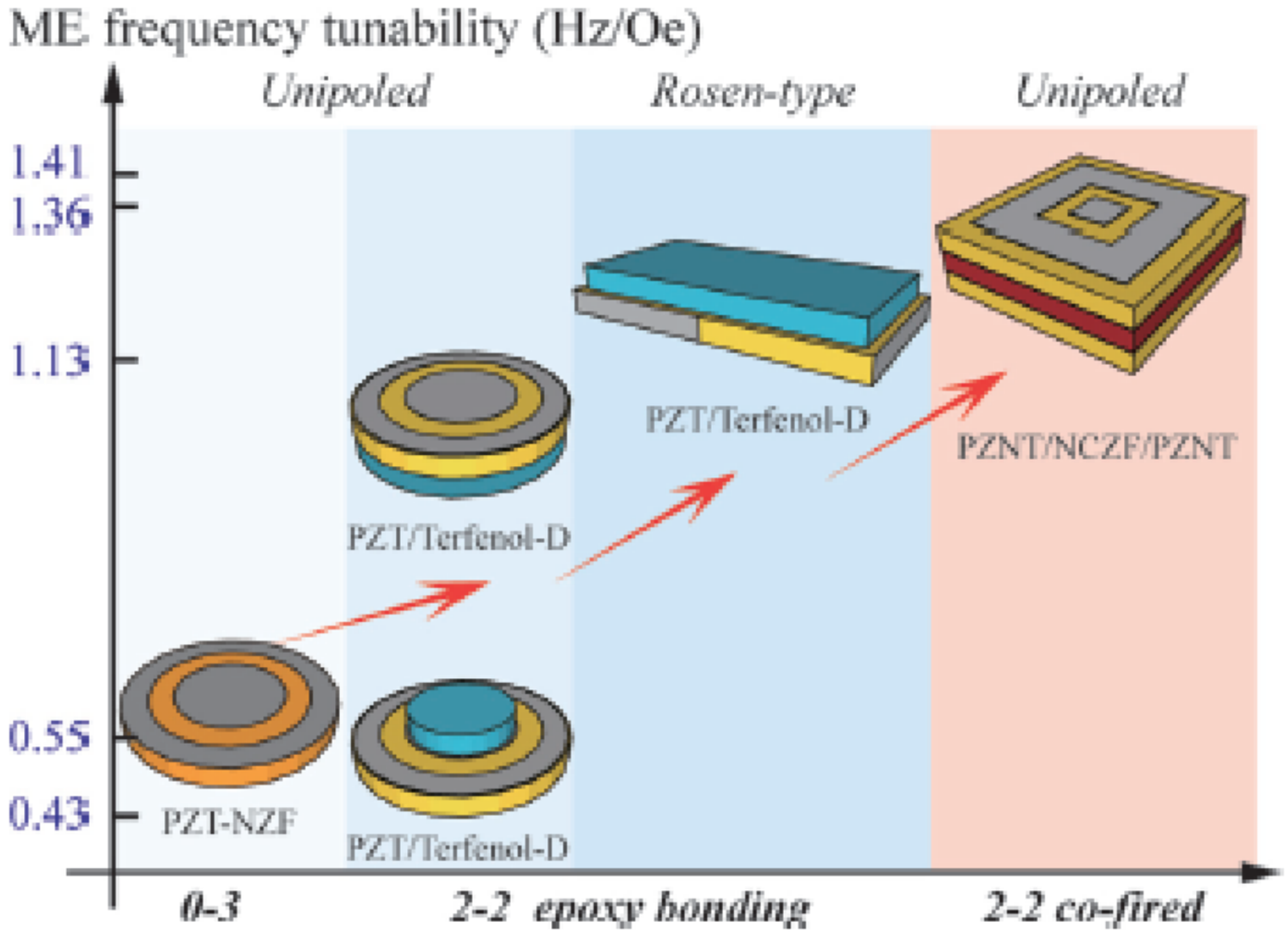




Puissance = Energie/temps

https://www.espace-sciences.org/

3D=> Evolution des matériaux



Yuan Zhou, Yongke Yan, and Shashank Priya, Co-fired magnetoelectric transformer Appl. Phys. Lett. 104, 232906 (2014); https://doi.org/10.1063/1.4883492