



Flexible Compact Nanogenerators Based On Mechanoradical-Forming Porous Polymer Films

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The Invention

Power generators that incorporate porous electric generation layers composed of mechanoradical-forming polymers are provided. Also provided are methods for using the generators to convert mechanical energy into and electrical signal to power electronic devices. The porous electric generation material includes an organic polymer that forms free radicals when covalent bonds are homolytically ruptured upon the application of a compressive force to the porous structure.

Additional Information

For More Information About the Inventors

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Tech Fields

- [Clean Technology : Energy storage, delivery & resource efficiencies](#)
- [Materials & Chemicals : Composites](#)

For current licensing status, please contact Rafael Diaz at rdiaz@warf.org or 608-960-9847