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Daniel Zehm, Werner Fudickar, and Torsten Linker*

Light, air, and heat suffice to flip a molecular switch. In their Communication on p. 7689 ff., T. Linker et al. show that oxidation of *ortho*-substituted bisarylanthracenes with singlet oxygen results in axial rotation by 180°. After cleavage of oxygen under mild conditions, the *trans* isomer can be regenerated by thermolysis. The full switching process requires only three steps, and oxygen is the only side product.

