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Molecular motors in new media

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List of Publications

Control of rotor function in light-driven molecular motors

Anouk S. Lubbe, Nopporn Ruangsupapichat, Giuseppe Caroli, Ben L. Feringa, *J. Org. Chem.* **2011**, 76, 8599-8610.

Asymmetric synthesis of first generation molecular motors

Thomas M. Neubauer, Thomas van Leeuwen, Depeng Zhao, Anouk S. Lubbe, Jos C. M. Kistemaker, Ben L. Feringa, *Org. Lett.* **2014**, 16, 4220-4223.

On the role of viscosity in the Eyring equation

Jos C. M. Kistemaker,* Anouk S. Lubbe,* Erik A. Bloemsma, Ben L. Feringa, *ChemPhysChem* **2016**, 17, 1819-1822.

Solvent effects on the thermal isomerization of a rotary molecular motor

Anouk S. Lubbe,* Jos C. M. Kistemaker,* Esther J. Smits, Ben L. Feringa, *Phys. Chem. Chem. Phys.* **2016**, 18, 26725-26735.

Recent developments in reversible photoregulation of oligonucleotide structure and function

Anouk S. Lubbe, Wiktor Szymanski, Ben L. Feringa, *Chem. Soc. Rev.* **2017**, 46, 1052-1079.

Artificial molecular motors

Salma Kassem,* Thomas van Leeuwen,* Anouk S. Lubbe,* Miriam R. Wilson,* Ben L. Feringa, David A. Leigh, *Chem. Soc. Rev.* **2017**, 46, 2592-2621.

Designing dynamic functional molecular systems

Anouk S. Lubbe,* Thomas van Leeuwen,* Sander J. Wezenberg, Ben L. Feringa, *Tetrahedron* **2017**, 73, 4837-4848.

Artificial microtubules burst with energy

Anouk S. Lubbe, Sander J. Wezenberg, Ben L. Feringa, *Proc. Natl. Acad. Sci. USA* **2017**, doi: 10.1073/pnas.1716868114.

Dynamic control of function by light-driven molecular motors

Thomas van Leeuwen,* Anouk S. Lubbe,* Peter Stacko,* Sander J. Wezenberg, Ben L. Feringa, *Nat. Rev. Chem.* **2017**, manuscript accepted for publication.

Celebrating molecular machines

Anouk S. Lubbe, *Hon. Rev.* **2017**, manuscript accepted for publication.

List of Publications

Photoswitching of DNA hybridization using a molecular motor

Anouk S. Lubbe,* Qing Liu,* Jan Willem de Vries, Jos C. M. Kistemaker, Alex H. de Vries, Ignacio Faustino, Zhuojun Meng, Wiktor Szymanski, Andreas Herrmann, Ben L. Feringa, *manuscript submitted for publication.*

Light-actuated morphological change in organic microcrystals

Anouk S. Lubbe, Marc C. A. Stuart, Petra M. Erne, Nopporn Ruangsupapichat, Wiktor Szymanski, Ben L. Feringa, *manuscript in preparation.*

Molecular motors for biological applications

Anouk S. Lubbe, Christian Böhmer, Filippo Tosi, Wiktor Szymanski, Ben L. Feringa, *manuscript in preparation.*

*Equal contributions