
Contents

Single Molecular Rotor at the Nanoscale C. Joachim, J.K. Gimzewski	1
Rotary Motion in Single-Molecule Machines T.R. Kelly, J.P. Sestelo	19
Molecular Machines and Motors Based on Transition Metal-Containing Catenanes and Rotaxanes L. Raehm, J.-P. Sauvage	55
Molecular Movements and Translocations Controlled by Transition Metals and Signaled by Light Emission V. Amendola, L. Fabbrizzi, C. Mangano, P. Pallavicini	79
Molecular Hysteresis by Linkage Isomerizations Induced by Electrochemical Processes M. Sano	117
Switchable Molecular Devices: From Rotaxanes to Nanoparticles J. Liu, M. Gómez-Kaifer, A.E. Kaifer	141
Molecular-Level Artificial Machines Based on Photoinduced Electron-Transfer Processes R. Ballardini, V. Balzani, A. Credi, M.T. Gandolfi, M. Venturi	163
Computing at the Molecular Level A.R. Pease, J.F. Stoddart	189
Molecular Memory and Processing Devices in Solution and on Surfaces A.N. Shipway, E. Katz, I. Willner	237
Author Index Volumes 1–99	283



<http://www.springer.com/978-3-540-41382-0>

Molecular Machines and Motors

Sauvage, J.-P. (Ed.)

2001, X, 302 p. 58 illus., Hardcover

ISBN: 978-3-540-41382-0