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Altri autori (Persone)	WinpennyRichard
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Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	3 Further SMMs Based on Mn(III) 3.1 The largest SMM; a [Mn84] torus; 3.2 Record spin number, ST = 83/2, but no slow relaxation; 3.3 Record magnetic anisotropy barrier; a Mn6 cluster; 3.4 Quantum entanglement between SMMs; first discovered in a pair of Mn4 clusters; 3.5 [MnIII 3 MnIV] clusters with an S = 9/2 ground state; 3.6 The [MnIII 2 MnII 2] family of "rhombic" SMMs; 3.7 Oxime bridged SMMs with the core [MnIII 3 O] and ST = 6; 3.8 Magnetostructural correlations within a family of [MnIII 6] SMMs; 4 MMs Based on Fe(III) Ions; 5 New SMMs Based on Divalent 3d-Ions 6 Slow Relaxation in Complexes Involving 4f-Elements 6.1 Single atom magnets; 6.2 Polymetallic 4f-complexes; 6.3 Heterometallic 3d-4f SMMs; 7 Metalloccyanate Based SMMs; 8 Conclusions; References; 3. The Nanoscopic V15 Cluster: A Unique Magnetic Polyoxometalate Boris Tsukerblat and Alex Tarantul; 1 The Unique Magnetic Polyoxometalate V15; 2 Structure and Superexchange Pathways; 3 Exchange Interactions within the Triangle Model; 3.1 Isotropic exchange within the triangle model; 3.2 'Accidental' degeneracy and spin-frustration; 3.3 Pseudo-angular momentum representation 3.4 Antisymmetric exchange, zero-field splitting
Sommario/riassunto	This work covers new developments in the field of molecular nanomagnetism, complementing previous books in this area (for

example the volume by Gatteschi, Sessoli and Villain on Single Molecule Magnets). The book is written by experts in the field and is intended as a compilation of critical reviews of new areas rather than a comprehensive text.
