# Yan-Cong Chen

## List of Publications by Citations



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| 112 papers | 8,261 citations | 39 h-index | 90 g-index |
| 131 ext. papers | 9,735 ext. citations | 7.3 avg, IF | 6.47 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 112 | Magnetic hysteresis up to 80 kelvin in a dysprosium metallocene single-molecule magnet. *Science*, **2018**, 362, 1400-1403 | 33.3 | 864 |
| 111 | A Stable Pentagonal Bipyramidal Dy(III) Single-Ion Magnet with a Record Magnetization Reversal Barrier over 1000 K. *Journal of the American Chemical Society*, **2016**, 138, 5441-50 | 16.4 | 738 |
| 110 | A Dysprosium Metallocene Single-Molecule Magnet Functioning at the Axial Limit. *Angewandte Chemie - International Edition*, **2017**, 56, 11445-11449 | 16.4 | 707 |
| 109 | Symmetry-Supported Magnetic Blocking at 20 K in Pentagonal Bipyramidal Dy(III) Single-Ion Magnets. *Journal of the American Chemical Society*, **2016**, 138, 2829-37 | 16.4 | 601 |
| 108 | Symmetry strategies for high performance lanthanide-based single-molecule magnets. *Chemical Society Reviews*, **2018**, 47, 2431-2453 | 58.5 | 533 |
| 107 | Switching the anisotropy barrier of a single-ion magnet by symmetry change from quasi-D5h to quasi-Oh. *Chemical Science*, **2013**, 4, 3310 | 9.4 | 402 |
| 106 | Recent advances in the design of magnetic molecules for use as cryogenic magnetic coolants. *Coordination Chemistry Reviews*, **2014**, 281, 26-49 | 23.2 | 273 |
| 105 | Recent advances in guest effects on spin-crossover behavior in Hofmann-type metal-organic frameworks. *Coordination Chemistry Reviews*, **2017**, 335, 28-43 | 23.2 | 213 |
| 104 | A heterometallic Fe(II)-Dy(III) single-molecule magnet with a record anisotropy barrier. *Angewandte Chemie - International Edition*, **2014**, 53, 12966-70 | 16.4 | 207 |
| 103 | Luminescent single-molecule magnets based on lanthanides: Design strategies, recent advances and magneto-luminescent studies. *Coordination Chemistry Reviews*, **2019**, 378, 365-381 | 23.2 | 198 |
| 102 | A large cryogenic magnetocaloric effect exhibited at low field by a 3D ferromagnetically coupled Mn(II)-Gd(III) framework material. *Chemical Communications*, **2012**, 48, 12219-21 | 5.8 | 142 |
| 101 | Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet. *Angewandte Chemie - International Edition*, **2017**, 56, 4996-5000 | 16.4 | 139 |
| 100 | Study of a magnetic-cooling material Gd(OH)CO3. *Journal of Materials Chemistry A*, **2014**, 2, 9851-9858 | 13 | 131 |
| 99 | Anion-templated assembly and magnetocaloric properties of a nanoscale {Gd38} cage versus a {Gd48} barrel. *Chemistry - A European Journal*, **2013**, 19, 14876-85 | 4.8 | 128 |
| 98 | A Dysprosium Metallocene Single-Molecule Magnet Functioning at the Axial Limit. *Angewandte Chemie*, **2017**, 129, 11603-11607 | 3.6 | 124 |
| 97 | Wheel-shaped nanoscale 3d-4f {Co(II)16Ln(III)24} clusters (Ln = Dy and Gd). *Chemical Communications*, **2013**, 49, 8081-3 | 5.8 | 104 |
| 96 | A zigzag DyIII4 cluster exhibiting single-molecule magnet, ferroelectric and white-light emitting properties. *Journal of Materials Chemistry C*, **2014**, 2, 8858-8864 | 7.1 | 95 |

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| 95 | A brilliant cryogenic magnetic coolant: magnetic and magnetocaloric study of ferromagnetically coupled GdF3. *Journal of Materials Chemistry C*, **2015**, 3, 12206-12211 | 7.1 | 93 |
| 94 | An unprecedented decanuclear Gd(III) cluster for magnetic refrigeration. *Inorganic Chemistry*, **2013**, 52, 9163-5 | 5.1 | 89 |
| 93 | Multifunctional Dy(III)4 cluster exhibiting white-emitting, ferroelectric and single-molecule magnet behavior. *Chemistry - A European Journal*, **2013**, 19, 8769-73 | 4.8 | 83 |
| 92 | Gadolinium(III)-hydroxy ladders trapped in succinate frameworks with optimized magnetocaloric effect. *Chemistry - A European Journal*, **2013**, 19, 13504-10 | 4.8 | 81 |
| 91 | Cu(II)-Gd(III) cryogenic magnetic refrigerants and Cu8Dy9 single-molecule magnet generated by in situ reactions of picolinaldehyde and acetylpyridine: experimental and theoretical study. *Chemistry - A European Journal*, **2013**, 19, 17567-77 | 4.8 | 80 |
| 90 | Dynamic Magnetic and Optical Insight into a High Performance Pentagonal Bipyramidal Dy Single-Ion Magnet. *Chemistry - A European Journal*, **2017**, 23, 5708-5715 | 4.8 | 79 |
| 89 | Desolvation-Driven 100-Fold Slow-down of Tunneling Relaxation Rate in Co(II)-Dy(III) Single-Molecule Magnets through a Single-Crystal-to-Single-Crystal Process. *Scientific Reports*, **2015**, 5, 16621 | 4.9 | 78 |
| 88 | "Half-sandwich" Yb(III) single-ion magnets with metallacrowns. *Chemical Communications*, **2015**, 51, 10291-4 | 5.84 | 75 |
| 87 | Gadolinium oxalate derivatives with enhanced magnetocaloric effect via ionothermal synthesis. *Inorganic Chemistry*, **2014**, 53, 9052-7 | 5.1 | 70 |
| 86 | Symmetry-related [Ln(III)6Mn(III)12] clusters toward single-molecule magnets and cryogenic magnetic refrigerants. *Inorganic Chemistry*, **2013**, 52, 457-63 | 5.1 | 66 |
| 85 | Guest-Switchable Multi-Step Spin Transitions in an Amine-Functionalized Metal-Organic Framework. *Angewandte Chemie - International Edition*, **2017**, 56, 14982-14986 | 16.4 | 65 |
| 84 | Two 3d-4f nanomagnets formed via a two-step in situ reaction of picolinaldehyde. *Chemical Communications*, **2013**, 49, 6549-51 | 5.8 | 61 |
| 83 | Switching of the magnetocaloric effect of Mn(II) glycolate by water molecules. *Chemistry - A European Journal*, **2014**, 20, 3029-35 | 4.8 | 53 |
| 82 | Single-Molecule-Magnet Behavior in a [2 □2] Grid Dy(III)4 Cluster and a Dysprosium-Doped Y(III)4 Cluster. *Inorganic Chemistry*, **2015**, 54, 8087-92 | 5.1 | 51 |
| 81 | Modulation of single-molecule magnet behaviour via photochemical [2+2] cycloaddition. *Chemical Communications*, **2015**, 51, 15358-61 | 5.8 | 50 |
| 80 | 3D oxalato-bridged lanthanide(iii) MOFs with magnetocaloric, magnetic and photoluminescence properties. *Dalton Transactions*, **2016**, 46, 116-124 | 4.3 | 48 |
| 79 | Fluorescent single-ion magnets: molecular hybrid (HNEt3)[DyxYb1-x(bpyda)3](x = 0.135-1). *Dalton Transactions*, **2013**, 42, 11262-70 | 4.3 | 45 |
| 78 | Synergistic electrical bistability in a conductive spin crossover heterostructure. *Journal of Materials Chemistry C*, **2015**, 3, 945-949 | 7.1 | 43 |

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| 77 | Unprecedented hexagonal bipyramidal single-ion magnets based on metallacrowns. *Chemical Communications*, **2016**, 52, 13365-13368 | 5.8 | 43 |
| 76 | Aminoalcohols and benzoates-friends or foes? Tuning nuclearity of Cu(ii) complexes, studies of their structures, magnetism, and catecholase-like activities as well as performing DFT and TDDFT studies. *Dalton Transactions*, **2017**, 46, 9801-9823 | 4.3 | 42 |
| 75 | The effect of magnetic coupling on magneto-caloric behaviour in two 3D Gd(III) glycolate coordination polymers. *Inorganic Chemistry Frontiers*, **2016**, 3, 150-156 | 6.8 | 41 |
| 74 | Tuning the spin-crossover behaviour of a hydrogen-accepting porous coordination polymer by hydrogen-donating guests. *Chemistry - A European Journal*, **2015**, 21, 1645-51 | 4.8 | 40 |
| 73 | Slow Magnetic Relaxation in Intermediate Spin S = 3/2 Mononuclear Fe(III) Complexes. *Journal of the American Chemical Society*, **2017**, 139, 16474-16477 | 16.4 | 37 |
| 72 | Magnetic and luminescent properties of lanthanide coordination polymers with asymmetric biphenyl-3,2',5'-tricarboxylate. *Dalton Transactions*, **2015**, 44, 14424-35 | 4.3 | 37 |
| 71 | Cyanometallate-Bridged Didysprosium Single-Molecule Magnets Constructed with Single-Ion Magnet Building Block. *Inorganic Chemistry*, **2020**, 59, 687-694 | 5.1 | 36 |
| 70 | Hysteretic Spin Crossover in Two-Dimensional (2D) Hofmann-Type Coordination Polymers. *Inorganic Chemistry*, **2015**, 54, 8711-6 | 5.1 | 35 |
| 69 | A Piezochromic Dysprosium(III) Single-Molecule Magnet Based on an Aggregation-Induced-Emission-Active Tetraphenylethene Derivative Ligand. *Inorganic Chemistry*, **2017**, 56, 8730-8734 | 5.1 | 34 |
| 68 | Molecular Design for Cryogenic Magnetic Coolants. *Chemical Record*, **2016**, 16, 825-34 | 6.6 | 34 |
| 67 | Tunable cooperativity in a spin-crossover Hoffman-like metal organic framework material by aromatic guests. *Journal of Materials Chemistry C*, **2015**, 3, 7830-7835 | 7.1 | 31 |
| 66 | [2 + 2] Photochemical modulation of the Dy(III) single-molecule magnet: opposite influence on the energy barrier and relaxation time. *Inorganic Chemistry Frontiers*, **2017**, 4, 1311-1318 | 6.8 | 31 |
| 65 | Ein heterometallischer FeII-DyIII-Einzelmolekülmagnet mit Rekord-Anisotropiebarriere. *Angewandte Chemie*, **2014**, 126, 13180-13184 | 3.6 | 30 |
| 64 | Multifunctional luminescent magnetic cryocooler in a GdMn pyramidal complex. *Chemical Communications*, **2018**, 54, 4104-4107 | 5.8 | 29 |
| 63 | Magnetocaloric Properties of Heterometallic 3d-Gd Complexes Based on the [Gd(oda)3 ](3-) Metalloligand. *Chemistry - A European Journal*, **2016**, 22, 802-8 | 4.8 | 29 |
| 62 | Opening Magnetic Hysteresis by Axial Ferromagnetic Coupling: From Mono-Decker to Double-Decker Metallacrown. *Angewandte Chemie - International Edition*, **2021**, 60, 5299-5306 | 16.4 | 29 |
| 61 | Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet. *Angewandte Chemie*, **2017**, 129, 5078-5082 | 3.6 | 28 |
| 60 | Efficient enhancement of magnetic anisotropy by optimizing the ligand-field in a typically tetranuclear dysprosium cluster. *Dalton Transactions*, **2015**, 44, 8150-5 | 4.3 | 27 |

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| 59 | Lanthanoid single-ion magnets with the LnN10 coordination geometry. *Chemical Communications*, **2016**, 52, 6261-4 | 5.8 | 27 |
| 58 | Cyclic OFF/Part/ON switching of single-molecule magnet behaviours via multistep single-crystal-to-single-crystal transformation between discrete Fe(ii)-Dy(iii) complexes. *Chemical Communications*, **2018**, 54, 10886-10889 | 5.8 | 27 |
| 57 | Organophosphonate-Bridged Polyoxometalate-Based Dysprosium(III) Single-Molecule Magnet. *Inorganic Chemistry*, **2017**, 56, 12687-12691 | 5.1 | 26 |
| 56 | Magnetic Properties and Photoluminescence of Lanthanide Coordination Polymers Constructed with Conformation-Flexible Cyclohexane-Tetracarboxylate Ligands. *Crystal Growth and Design*, **2016**, 16, 946-952 | 3.5 | 26 |
| 55 | Physical stimulus and chemical modulations of bistable molecular magnetic materials. *Chemical Communications*, **2020**, 56, 13702-13718 | 5.8 | 26 |
| 54 | Effect of Bridging Ligands on Magnetic Behavior in Dinuclear Dysprosium Cores Supported by Polyoxometalates. *Inorganic Chemistry*, **2019**, 58, 1301-1308 | 5.1 | 25 |
| 53 | Spin-crossover modulation single-crystal to single-crystal photochemical [2 + 2] reaction in Hofmann-type frameworks. *Chemical Science*, **2019**, 10, 7496-7502 | 9.4 | 24 |
| 52 | Guest-effected spin-crossover in a novel three-dimensional self-penetrating coordination polymer with permanent porosity. *Inorganic Chemistry*, **2014**, 53, 4039-46 | 5.1 | 24 |
| 51 | Programmed self-assembly of heterometallic [3 □] grid [M(II)Cu(II)4Cu(I)4] (M = Fe, Ni, Cu, and Zn). *Inorganic Chemistry*, **2013**, 52, 6233-5 | 5.1 | 24 |
| 50 | Di- and octa-nuclear dysprosium clusters derived from pyridyl-triazole based ligand: {Dy} showing single molecule magnetic behaviour. *Dalton Transactions*, **2017**, 46, 2981-2987 | 4.3 | 23 |
| 49 | Uranocenium: Synthesis, Structure, and Chemical Bonding. *Angewandte Chemie - International Edition*, **2019**, 58, 10163-10167 | 16.4 | 23 |
| 48 | Reversible crystal-to-crystal transformation from a trinuclear cluster to a 1D chain and the corresponding spin crossover (SCO) behaviour change. *Chemical Communications*, **2017**, 53, 7820-7823 | 5.8 | 22 |
| 47 | pH-Controlled Assembly of Organophosphonate-Bridged Dysprosium(III) Single-Molecule Magnets Based on Polyoxometalates. *Inorganic Chemistry*, **2018**, 57, 6773-6777 | 5.1 | 22 |
| 46 | Spin-crossover behavior in two new supramolecular isomers. *Inorganic Chemistry*, **2014**, 53, 201-8 | 5.1 | 22 |
| 45 | Spin-Crossover Phenomenon in a Pentanuclear Iron(II) Cluster Helicate. *Inorganic Chemistry*, **2016**, 55, 4891-6 | 5.1 | 22 |
| 44 | Two-Step Spin-Crossover with Three Inequivalent Fe Sites in a Two-Dimensional Hofmann-Type Coordination Polymer. *Chemistry - A European Journal*, **2017**, 23, 10034-10037 | 4.8 | 21 |
| 43 | Enhanced spin-crossover behavior mediated by supramolecular cooperative interactions. *Inorganic Chemistry*, **2014**, 53, 8129-35 | 5.1 | 21 |
| 42 | Water molecule induced reversible single-crystal-to-single-crystal transformation between two trinuclear Fe(ii) complexes with different spin crossover behaviour. *Dalton Transactions*, **2018**, 47, 4307-4314 | 4.3 | 19 |

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| 41 | Enhancing single-molecule magnet behavior of linear CoII-DyIIICoII complex by introducing bulky diamagnetic moiety. *Science China Chemistry*, **2018**, 61, 1399-1404 | 7.9 | 19 |
| 40 | Cyanide-bridged bimetallic 3D Hoffman-like coordination polymers with tunable magnetic behaviour. *CrystEngComm*, **2014**, 16, 6444-6449 | 3.3 | 19 |
| 39 | Magnetic Dynamics of a Neodymium(III) Single-Ion Magnet. *Inorganic Chemistry*, **2018**, 57, 11782-11787 | 5.1 | 19 |
| 38 | Slow magnetic relaxation in a {EuCu} metallacrown. *Dalton Transactions*, **2019**, 48, 1686-1692 | 4.3 | 18 |
| 37 | A New Porous Three-Dimensional Iron(II) Coordination Polymer with Solvent-Induced Reversible Spin-Crossover Behavior. *Crystal Growth and Design*, **2018**, 18, 5214-5219 | 3.5 | 17 |
| 36 | Chiral bis(phthalocyaninato) terbium double-decker compounds with enhanced single-ion magnetic behavior. *Inorganic Chemistry Frontiers*, **2018**, 5, 939-943 | 6.8 | 15 |
| 35 | Structures and properties of coordination polymers involving asymmetric biphenyl-3,2?,5?-tricarboxylate. *CrystEngComm*, **2014**, 16, 10006-10016 | 3.3 | 15 |
| 34 | Construction of lanthanide single-molecule magnets with the magnetic motif [Dy(MQ)4] *Inorganic Chemistry Frontiers*, **2017**, 4, 1776-1782 | 6.8 | 15 |
| 33 | Field-induced oscillation of magnetization blocking barrier in a holmium metallacrown single-molecule magnet. *CheM*, **2021**, 7, 982-992 | 16.2 | 15 |
| 32 | Guest-Switchable Multi-Step Spin Transitions in an Amine-Functionalized Metal Organic Framework. *Angewandte Chemie*, **2017**, 129, 15178-15182 | 3.6 | 14 |
| 31 | A disc-like Co7 cluster with a solvent dependent catecholase activity. *New Journal of Chemistry*, **2017**, 41, 14057-14061 | 3.6 | 14 |
| 30 | High-temperature spin crossover in two solvent-free coordination polymers with unusual high thermal stability. *Inorganic Chemistry*, **2015**, 54, 3006-11 | 5.1 | 14 |
| 29 | Seeking magneto-structural correlations in easily tailored pentagonal bipyramid Dy(III) single-ion magnets. *Science China Chemistry*, **2020**, 63, 1066-1074 | 7.9 | 14 |
| 28 | Asymmetric seven-/eight-step spin-crossover in a three-dimensional Hofmann-type metal rganic framework. *Inorganic Chemistry Frontiers*, **2020**, 7, 1685-1690 | 6.8 | 14 |
| 27 | Light- and temperature-assisted spin state annealing: accessing the hidden multistability. *Chemical Science*, **2020**, 11, 3281-3289 | 9.4 | 13 |
| 26 | A wheel-shaped Dy(iii) single-molecule magnet supported by polyoxotungstates. *Dalton Transactions*, **2017**, 46, 16796-16801 | 4.3 | 13 |
| 25 | Evolution of Slow Magnetic Relaxation: from Diamagnetic Matrix Y(OH)CO3 to Dy(0.06)Y(0.94)(OH)CO3 with High Spin-Reversal Barrier and Blocking Temperature. *Inorganic Chemistry*, **2016**, 55, 3145-50 | 5.1 | 11 |
| 24 | Chiral Erbium(III) Complexes: Single-Molecule Magnet Behavior, Chirality, and Nuclearity Control. *Inorganic Chemistry*, **2019**, 58, 10694-10703 | 5.1 | 11 |

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| 23 | Spin frustration in a family of pillared kagom layers of high-spin cobalt(II) ions. *Chemistry - A European Journal*, **2015**, 21, 2560-7 | 4.8 | 11 |
| 22 | Alkoxo- and carboxylato-bridged hexanuclear copper(II) complex: Synthesis, structure and magnetic properties. *Inorganic Chemistry Communication*, **2017**, 83, 49-51 | 3.1 | 10 |
| 21 | A perfect triangular dysprosium single-molecule magnet with virtually antiparallel Ising-like anisotropy. *Inorganic Chemistry Frontiers*, **2020**, 7, 2941-2948 | 6.8 | 10 |
| 20 | 4f-Clusters for Cryogenic Magnetic Cooling. *Structure and Bonding*, **2016**, 189-207 | 0.9 | 10 |
| 19 | Tunable Magnetization Dynamics through Solid-State Ligand Substitution Reaction. *Inorganic Chemistry*, **2017**, 56, 8829-8836 | 5.1 | 10 |
| 18 | Uranocenium: Synthesis, Structure, and Chemical Bonding. *Angewandte Chemie*, **2019**, 131, 10269-10273 | 3.6 | 9 |
| 17 | Single-ion magnet and luminescent properties in a Dy(III) triangular dodecahedral complex. *Inorganic Chemistry Communication*, **2019**, 102, 16-19 | 3.1 | 9 |
| 16 | Humidity Sensitive Structural Dynamics and Solvatomagnetic Effects in a 3D Co(II)-Based Coordination Polymer. *Inorganic Chemistry*, **2018**, 57, 4070-4076 | 5.1 | 7 |
| 15 | Supertetrahedral T2 clusters in 3d-4f {Fe4Ln6}: Synthesis, crystal structure, magnetic and photoluminescent properties. *Inorganica Chimica Acta*, **2018**, 482, 240-245 | 2.7 | 7 |
| 14 | Metal-Ion Induced In Situ Ligand Oxidation for Self-Assembled Clusters: from Bis(5-(2-pyridine-2-yl)-1,2,4-triazole-3-yl)methane to Alcohol or Ketone. *Chemistry - an Asian Journal*, **2017**, 12, 2172-2176 | 4.5 | 6 |
| 13 | Field-induced slow magnetic relaxation in a mononuclear Gd(III) complex. *Inorganic Chemistry Communication*, **2019**, 107, 107449 | 3.1 | 6 |
| 12 | Spin-crossover in an organic-inorganic hybrid perovskite. *Chemical Communications*, **2020**, 56, 4551-4554 | 5.8 | 6 |
| 11 | In Situ Characterization of the Local Work Function along Individual Free Standing Nanowire by Electrostatic Deflection. *Scientific Reports*, **2016**, 6, 21270 | 4.9 | 6 |
| 10 | Guest-Driven Light-Induced Spin Change in an Azobenzene Loaded Metal-Organic Framework. *Angewandte Chemie - International Edition*, **2021**, | 16.4 | 5 |
| 9 | Opening Magnetic Hysteresis by Axial Ferromagnetic Coupling: From Mono-Decker to Double-Decker Metallacrown. *Angewandte Chemie*, **2021**, 133, 5359-5366 | 3.6 | 5 |
| 8 | Dynamic Magnetic and Optical Insight into a High-Performance Pentagonal Bipyramidal DyIII Single-Ion Magnet. *Chemistry - A European Journal*, **2017**, 23, 5630-5630 | 4.8 | 4 |
| 7 | A ladder-type iron(II) coordination polymer with enhanced spin-crossover behavior. *Inorganic Chemistry Frontiers*, **2017**, 4, 921-926 | 6.8 | 4 |
| 6 | Exploring the Inverse Magnetocaloric Effect in Discrete MnII Dimers. *Journal of Physical Chemistry C* , **2017**, 121, 22727-22732 | 3.8 | 3 |

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| 5 | Magnetic dynamics of an open-ring tridysprosium complex employing mixed ligands. *Dalton Transactions*, **2020**, 49, 14140-14147 | 4.3 | 2 |
| 4 | Innentitelbild: Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet (Angew. Chem. 18/2017). *Angewandte Chemie*, **2017**, 129, 4974-4974 | 3.6 | 1 |
| 3 | Reversible on-off switching of spin-crossover behavior via photochemical [2+2] cycloaddition reaction. *Science China Chemistry*, **2022**, 65, 120 | 7.9 | 1 |
| 2 | Magnetization Dynamics on Isotope-Isomorphic Holmium Single-Molecule Magnets. *Angewandte Chemie - International Edition*, **2021**, 60, 27282 | 16.4 | 0 |
| 1 | Berichtigung: A Dysprosium Metallocene Single-Molecule Magnet Functioning at the Axial Limit. *Angewandte Chemie*, **2020**, 132, 19004-19004 | 3.6 | |