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overview of chirality, with a discussion of
absolute configurations and system
descriptors, physical properties ...

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Materials exhibiting both chirality and
conductivity do not exist in nature and
very few examples have been

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synthesised. We report here the
synthesis of a chiral molecular metal
which remains metallic down to at least
4.2 K. This material also exhibits room-
temperature switching capabilities with
a transition upon cooling below 10 °C.

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Rule A molecule is chiral if it is non-
superimposable on its mirror image. In
almost all cases, a chiral molecule lacks
a plane of symmetry (mirror plane) σ and
an inversion centre, i . 1. Chirality in
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In this article, the newly developed transition-metal-catalyzed asymmetric C—H borylation are summarized. Pivotal to these asymmetric reactions is the development of novel chiral ligands. The advanta...

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this increasingly important field for
students and researchers in inorganic

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In homogeneous catalysis, a
C₂-symmetric ligands usually describes
bidentate ligands that are dissymmetric
but not asymmetric by virtue of their
C₂-symmetry. Such ligands have proven

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valuable in catalysis. With C_2 symmetry, C_2 -symmetric ligands limit the number of possible reaction pathways and thereby increase enantioselectivity, at least relative to asymmetrical analogues. Chiral ligands combine with metals to form chiral catalyst, which engages in a chemical reaction in which chirality is tra

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C2-Symmetric ligands - Wikipedia

Chiral metal complexes render new breakthroughs in chemical sciences by providing stereoselective, robust and enantiomerically pure compounds and their applications as pharmaceuticals, diagnostic agents, in supramolecular assemblies, enzyme catalysis,

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biomimetic model systems and as
nucleic acid probes.

Chiral transition metal complexes: Synthetic approach and ...

Quantitative chirality sensing of
terpenes and terpenoids exhibiting a
single double bond as the only functional
group, such as α -pinene, β -pinene and

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camphene, or two alkene moieties like limonene, valencene, and β -caryophyllene is among the most difficult molecular recognition tasks.

Optical Terpene and Terpenoid Sensing: Chiral Recognition ...

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increasingly important field for students and researchers in inorganic chemistry. Emphasising applications and real-world examples, the book begins with an overview of chirality, with a discussion of absolute configurations and system descriptors, physical properties of enantiomers, and principles of resolution and preparation of enantiomers.

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Chirality in Transition Metal Chemistry - E-bok - Amouri ...

Chirality is a common feature of organic compounds and ligands but is relatively rare when it comes to other elements. The normal way of introducing chirality at a metal center is the transfer of an organic ligand onto the metal. However,

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it is far rarer to have chirality actually at the metal center itself.

Postfunctionalization of Tris(pyridyl) ... - Chemistry Europe

Herein we report a general and modular platform technology for the construction of axial chirality via palladium/chiral norbornene cooperative catalysis. It is a

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Control of Absolute Stereochemistry in Transition-Metal ...

Chiral compounds have played an

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important role in the development of coordination chemistry. Unlike organic chemistry, where mechanistic rules allowed the establishment of absolute configurations for numerous compounds once a single absolute determination had been made, coordination compounds are more complex. This article discusses the development of

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