

Special Issue

Sensing Strategy for Biological and Pharmaceutical Molecules with Chirality

Message from the Guest Editors

With the extension of the chirality concept from organic chemistry to nanoscience, many emerging chiral nanomaterials have been reported, including plasmonic metals, semiconductors, silica, nanocarbon, metal-organic framework (MOF), covalent-organic framework (COF), perovskite, and 2D materials. These nano-objects can play multiple roles in chiral sensors. For example, plasmonic metallic nanostructures not only show circular dichroism (CD) signals in the visible light range but also enhance the CD signals of organic molecules. More importantly, combined with the unique optical/electronic/magnetic properties and crystal-/nanostructures of nanomaterials, many analysis techniques are also applied to chirality detection.

Therefore, this Special Issue aims to highlight and overview different aspects of chiral nano-/chemo-/molecular-probes, including: the design and fabrication of chiral probes for detecting chiral biomolecules, development of new chiral analysis techniques, exploring unknown bio-functions and metabolism of chiral molecules, chiral interactions at nano-bio interfaces, and enantioselectivity mechanism in chemical reactions.

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