

CISS (Chiral Induced Spin Selectivity): implementation in electrochemistry

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A short communication concerning a new paradigm we contributed to develop: spin-dependent electrochemistry (SDE). The main idea underlying the development of SDE relies on the implementation in an electrochemical system of the spin filtering effect of chiral systems (chiral induced spin selectivity, CISS effect). All in all, the spin-dependent electrochemistry paradigm can be considered somehow equivalent to the spintronics concept, but transferred in the field of electrochemistry. Present perspectives and possible future developments relying on SDE potentiality are also addressed.