

# The Chiral Induced Spin Selectivity(CISS) Effect

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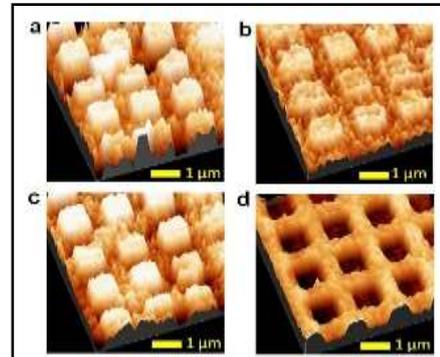
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Utilizing the Chiral Induced Spin Selectivity (CISS) effect we demonstrated a simple spin based nano magnet-less optical and electrical memory. The CISS effect also enables the developing of local spin qubit. The presented technology has the potential to overcome the limitations of other magnetic memory technologies allowing the fabricating of inexpensive, high-density universal and dense quantum and classical memory devices.

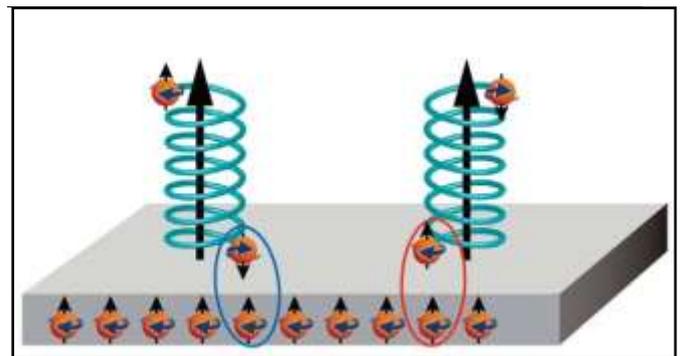
## References

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## Figures



**Figure 1:** Topography and magnetic phase MFM images of a molecular-induced magnetization orientation.



**Figure 2:** When an electric field  $E$  (black arrows) acts on a chiral molecule, due to its interaction with other molecules or with surfaces, charge reorganization occurs in the molecule and is accompanied by spin polarization.