



Sensors

---

an Open Access Journal by MDPI

---

CiteScore: 8.2

Indexed in PubMed

Impact Factor: 3.5

Special Issue Reprint

## Electromagnetic Sensing and Its Applications

**Edited by: Wuliang Yin, Mingyang Lu and Ruochen Huang**

Based on the interaction between materials and electromagnetic fields/waves, electromagnetic sensing techniques are able to provide physical insight into the integrity and properties of materials without causing damage. EM sensing facilitates advancements across a wide range of scientific, industrial, and medical domains and addresses challenges in many application fields, such as aerospace, rail, oil, and gas, geophysical exploration, and advanced manufacturing.

Great efforts have also been made to improve the measurement accuracy, speed, and resolution through optimization of sensing systems and advanced manufacturing. This Reprint reports recent advances in EM sensing. The collected articles cover a range of topics, including:

- New and emerging electromagnetic sensing principles, sensors, and systems;
- Electromagnetic sensor design and optimization;
- Material property evaluation;
- Defect detection and imaging;
- Sensing system development;
- Forward and inverse problems;
- Deep learning-enhanced sensing and its applications.

<https://www.mdpi.com/books/reprint/12378>

