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# Humidity Sensor Based on Solution Processible Microporous Silica Nanoparticles

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## Highlights

- The organic-inorganic hybrid materials MSNs-DMCs were prepared and applied for humidity monitoring.
- The small size and the modification of polyelectrolyte endow the solution processibility for sensitive film preparation.
- The channels formed by particle stacking in the sensitive film leads to a rapid response and recovery.

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