TECHNO MARKET - By Ouest Valorisation

L'accompagnement sur-mesure de vos projets d'innovation

Notre mission :
Proposer aux entreprises des ressources d'innovation attractives issues de plus de 160 laboratoires et 7200 chercheurs.

Photonic sensor for the measurement of sedimentation velocity of particles in complex fluids

This innovation introduces a new technology for optical measurement of sedimentation rates, meeting the needs of various sectors such as agri-food, biomedical, and chemistry. Sedimentation, where particles settle in a fluid, plays a key role in these fields for material characterization and process optimization.

Traditional sedimentation measurement methods are often cumbersome and lack precision. The large sample sizes required limit their applicability in industries needing accurate and rapid analyses.

This innovative technology relies on resonant micro-rings to measure sedimentation rates. It provides a dynamic optical signature of sedimentation processes in samples. This method allows for precise measurements of concentrations ranging from 0.1 mg/mL to 10 mg/mL, on tiny samples (droplets or micro-pools). Due to its low-cost microfabrication, it offers a practical and economical solution for sedimentation analysis.

Cette solution est faite pour vous si vous êtes :

- Une entreprise qui souhaite utiliser la solution
- Une entreprise qui souhaite commercialiser la solution
- Une entreprise qui souhaite adapter la solution à son besoin

Nature de l'offre :

- Small size sample analysis (range from 50 µL to 200 µL)
- Dynamic measurements - detection of phenomena onset
- Low-cost technology (diode, polymer)
- Large concentration range (0.1 mg/mL to 10 mg/mL)
- Miniature control and measurement system

Domaines d'application :

- Santé
- Cosméto|Agro
- Agri

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