

The image is a 3D molecular dynamics simulation of Janus micromotors in water. The background is a dark, rippling water surface. In the center, a large, detailed Janus micromotor is shown, consisting of a central core of green and silver spheres, surrounded by a shell of blue spheres. The micromotor is moving towards the viewer, leaving a white wake behind it. Several other smaller Janus micromotors are scattered throughout the scene, some moving in different directions. The overall scene is illuminated from above, creating highlights on the water surface and the micromotors.

# NANO · MICRO small

## Janus Micromotors

In article number 1802537, Larysa Baraban, Denys Makarov, and co-workers present novel plasmonic Ag/AgCl-based spherical Janus micromotors and investigate their collective behavior upon interaction with nonmotile passive beads. An efficient exclusion behavior between Ag/AgCl micromotors and the surrounding passive beads is observed under visible light illumination in pure H<sub>2</sub>O. The exclusion effect is tunable by the number of catalytically active Janus particles forming a micromotor, which is demonstrated experimentally and using molecular-dynamics simulations.