The research team has shown experimentally that the ferrofluids are

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potential candidates for optical power limiting. The good thermal stability, resistance against agglomeration and long shelf life make them attractive for this particular application.

A specific advantage of the ferrofluids is that the optical properties in these materials are tunable by an applied magnetic field. For instance, upon the application of the magnetic field, the linear transmission along the X-Y plane could be changed by a large extent because of the formation of the periodic chain-like structures.

In a typical device application, such magnetocontrollability can turn out to be very useful.

Pradeep

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