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Highlights

Magnetic properties of LiZnCu ferrite synthesized by the microwave sintering method*Journal of Magnetism and Magnetic Materials* ■ (■■■■) ■■■–■■■Sujata S. Khot^{a,b}, Neelam S. Shinde^{a,b}, Nathani Basavaiah^c, Shrikant C. Watawe^d, Milind M. Vaidya^e^a D.B.J. College, Chiplun 415605, Maharashtra, India^b Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar, Maharashtra, India^c Indian Institute of Geomagnetism, New Panvel 410218, Maharashtra, India^d P.D.Karkhanis College, Ambernath (East), Maharashtra, India^e Vedanta College of Management and Information Technology, Vitthalvadi (West), Maharashtra, India

- Single spinel phases of LiZnCu ferrite are studied.
- Different sized particles, ranging 43–63 nm were formed by using microwave sintering method.
- The substitution of Zn²⁺ ions alters the domain structure from SD to MD and then to SP.
- SD particle have higher ARM intensities per unit mass compared to MD particles.
- A combination of lower chemical reaction temperature with microwave sintering could be useful for obtaining nano-ferrites.

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