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List of Publications

From This Thesis

1. **Shaw, S.K.**, Kailashiya, J., Gangwar, A., Alla, S.K., Gupta, S.K., Prajapat, C.L., Meena, S.S., Dash, D., Maiti, P.H. and Prasad, N.K., 2021. γ-Fe2O3 nanoflowers as efficient magnetic hyperthermia and photo-thermal agent. *Applied Surface Science*, *560*, p.150025.
2. **Shaw, S.K.**, Kailashiya, J., Gupta, S.K., Prajapat, C.L., Meena, S.S., Dash, D., Maiti, P. and Prasad, N.K., 2022. MnFe2O4 nano-flower: A prospective material for bimodal hyperthermia. *Journal of Alloys and Compounds*, *899*, p.163192.

Under Review

3. **Shaw, S.K.**, Sharma, A., Kailashiya, J., Gupta, S.K., Meena, S.S., Dash, D., Maiti, P. and Prasad, N.K., 2022. Mesoporous Fe3O4 nanoparticle: A prospective nano heat generator for thermo-therapeutic cancer treatment modality

Other Publications as First Author

4. **Shaw, S.K.**, Alla, S.K., Meena, S.S., Mandal, R.K. and Prasad, N.K., 2017. Stabilization of temperature during magnetic hyperthermia by Ce substituted magnetite nanoparticles. Journal of Magnetism and Magnetic Materials, 434, pp.181-186.
5. **Shaw, S.K.**, Biswas, A., Gangwar, A., Maiti, P., Prajapat, C.L., Meena, S.S. and Prasad, N.K., 2019. Synthesis of exchange coupled nanoflowers for efficient magnetic hyperthermia. *Journal of Magnetism and Magnetic Materials*, *484*, pp.437-444.
6. **Shaw, S.K.**, Gangwar, A., Sharma, A., Alla, S.K., Kavita, S., Vasundhara, M., Meena, S.S., Maiti, P. and Prasad, N.K., 2021. Structural and magnetic properties of nanocrystalline equi-atomic spinel high-entropy oxide (AlCoFeMnNi) 3O4 synthesised by microwave assisted co-precipitation technique. *Journal of Alloys and Compounds*, *878*, p.160269.

Co-authored Publications

7. Gangwar, A., Das, T., **Shaw, S.K**. and Prasad, N.K., 2021. Nanocomposite of (α-Mn3O4/MnO)@ rGO as a high performance electrode material for supercapacitors. *Electrochimica Acta*, *390*, p.138823.

8. Alla, S.K., Gangwar, A., **Shaw, S.K.**, Viswanadh, M.K., Neogi, K., Muthu, M.S., Gupta, N., Meena, S.S., Kollu, P., Mandal, R.K. and Prasad, N.K., 2021. Physical and in-vitro evaluation of pure and substituted MxCe1-xO2 (M= Co, Fe or Ti and x= 0.05) magnetic nanoparticles. *Ceramics International*, *47*(7), pp.8812-8819.

9. Tripathi, Himanshu, Gaurav Chandra Pandey, Ashutosh Dubey, **Subham Kumar Shaw**, Nand Kishore Prasad, S. P. Singh, and Chandana Rath. "Superparamagnetic manganese ferrite and strontium bioactive glass nanocomposites: enhanced biocompatibility and antimicrobial properties for hyperthermia application." *Advanced Engineering Materials* 23, no. 1 (2021): 2000275.

10. Gangwar, A., Sharma, A., **Shaw, S.K**., Meena, S.S. and Prasad, N.K., 2020. Structural and electrochemical performance studies for nanocomposites of carbon with Fe3C or Mn-Substituted (Fe3C/Fe3O4) as anodes for Li-batteries. *Applied Surface Science*, *533*, p.147474.

11. Duvuru, H.B., Alla, S.K**., Shaw, S.K**., Meena, S.S., Gupta, N., Prasad, B.V., Kothawale, M.M., Kumar, M.K. and Prasad, N.K., 2019. Magnetic and dielectric properties of Zn substituted cobalt oxide nanoparticles. *Ceramics International*, *45*(13), pp.16512-16520.

12. Ramya, V., Gangwar, A., **Shaw, S.K.,** Mukhopadhyay, N.K. and Prasad, N.K., 2019. $$\hbox {Fe}/\hbox {Fe} _ {3}\hbox {O} _ {4} $$ Fe/Fe 3 O 4 nanocomposite powders with giant high magnetization values by high energy ball milling. *Bulletin of Materials Science*, *42*(3), pp.1-7.

13. Gangwar, A., Singh, G., **Shaw, S.K.,** Mandal, R.K., Sharma, A., Meena, S.S., Prajapat, C.L. and Prasad, N.K., 2019. Synthesis and structural characterization of Co x Fe 3− x C (0≤ x≤ 0.3) magnetic nanoparticles for biomedical applications. *New Journal of Chemistry*, *43*(8), pp.3536-3544.