List of publications during Ph.D.

Publications from the thesis

1. **Asnit Gangwar**, S. S. Varghese, Sher Singh Meena, M. K. Viswanadh, K. Neogi, M. S. Muthu, and N. K. Prasad, Physical and *in-vitro* evaluation of ultra-fine cohenite particles for the prospective magnetic hyperthermia application, **J. Mater. Sci.: Mater. (Second minor revision submitted) 2020 (2.2) SCI.**

2. **A. Gangwar**, S. Kumar, Sher Singh Meena, A. Sharma, M. K. Viswanadh, K. Neogi, M. S. Muthu and N. K. Prasad, Structural and *in-vitro* assessment of $Zn_xFe_{3-x}C$ ($0 \leq x \leq 1$) nanoparticles as magnetic biomaterials, **Appl. Surf. Sci., 509 (2019) 144891-144902 (5.2) SCI.**

3. **Asnit Gangwar**, A. Singh, Shaili Pal, I. Sinha, Sher Singh Meena, and N. K. Prasad, Magnetic nanocomposites of Fe_3C or Ni-substituted (Fe_3C/Fe_3O_4) with carbon for degradation of methylene orange and p-nitrophenol, **Under review, J Clean. Prod. 2020 (6.4) SCI.**

4. **A. Gangwar**, A. Sharma, S. K. Shaw, Sher Singh Meena, and N. K. Prasad, Structural and electrochemical studies of nanocomposites of Fe_3C or Mn-Substituted (Fe_3C/Fe_3O_4) with carbon as anode for Li-batteries, **Under review, J. Power Sources, 2020 (7.5) SCI**.

Publications apart from thesis

1. **A. Gangwar**, G. singh, S. K. Shaw, R. K. Mandal, A. Sharma, Sher Singh Meena, C. L. Prajapat, and N. K. Prasad, Synthesis and structural characterization of $Co_xFe_{3-x}C$ ($0 \leq x \leq 0.3$) magnetic nanoparticles for biomedical applications**, New J. Chem., 2019**,**43**, **3536-3544 (3.1) SCI.**

2. **A. Gangwar**, S. S. Varghese, Sher Singh. Meena, C. L. Prajapat, Nidhi Gupta and N. K. Prasad, Fe_3C nanoparticles for magnetic hyperthermia application, **J. Magn. Magn. Mater 481, 2019, 251-256 (2.7) SCI.**

3. **Asnit Gangwar**, S. S. Varghese, A. sharma, Sher Singh Meena, C. L. Prajapat, M. K. Viswanadh, K. Neogi, M. S. Muthu and N. K. Prasad, **Ceram. Int, https://doi.org/10.1016/j.ceramint.2020.01.110 2020 (3.5) SCI.**

4. **Asnit Gangwar**, S. K. Shaw, K. C. Barick, M. K. Viswanadh, K. Neogi, M. S. Muthu, and N. K. Prasad, *In-vitro* study of citrate capped Zr-substituted magnetite nanoparticles for the hyperthermia application, **Under review J. Mat. Sci. 2020 (3.4) SCI.**

5. K. Y. Salkar, R. B Tangsali, R. S. Gad, **Asnit Gangwar**, N. K. Prasad, Electrical Properties of $Zn_{(1-x)}Co_xO$ Dilute Magnetic Semiconductor Nanoparticles, **J. Mater. Sci.: Mater. Electron. 30 (2019) 18374–18383. (2.02) SCI.**

6. P. Singh, P. Bharti, **Asnit Gangwar,** N. K. Prasad, C. Upadhyay, Janus shaped plasmonic- magnetic silver magnetite nanostructures for multimodal applications, **Jpn. J. Appl. Phys. 58, 105001. (2.5) SCI.**

7. V. Ramya, **A. Gangwar,** Subham Kumar Shaw, Nilaya Krishna Mukhopadhyay, Nand Kishore Prasad, Fe/Fe_3O_4 nanocomposite powders with giant magnetization values by high energy ball milling, **Bull. Mater. Sci. 42:43 (2019) 1809-1816. (1.09) SCI.**

8**.** S. K. Shaw, A. Biswas, **Asnit Gangwar,** P. Maiti, Sher Singh Meena, C. L. Prajapat, N. K. Prasad, Synthesis of exchange coupled nanoflowers for efficient magnetic hyperthermia, **J. Magn. Magn. Mater. 484, (2019), 437-444. (2.68) SCI.**

9**.** M. M. Kothawale, R. B. Tangsali, S. S. Meena, N. K. Prasad, **Asnit Gangwar**, Mössbaur study and Curie temperature configuration on sintering nano Ni-Zn ferrite powder, **J Supercond. Nov. Magn. 018, (2018), 4935- 4941. (1.5) SCI.**