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**PUBLICATION: Research Paper( International and National Journal)**

- 1 “Synthesis and Characterization of Layered Double Hydroxides Containing Optically Active Transition Metal Ion” S. B. Tyagi, A. Kharkwal, Nitu, **M. Kharkwal\*** Solid State Sciences 63 (2017) 93-102, ISSN: 1293-2558.
- 2 “Impact of Cooking on Nutritional Content of Food” S. B. Tyagi, **M. Kharkwal**, T. Saxena, DU Journal of Undergraduate Research and Innovation, 1(3), 180-186, 2015, ISSN: 2395 – 2334.
- 3 “Novel Synthesis of Selective Phase-Shape Orientation of AgInS<sub>2</sub> Nanoparticles at Low Temperature” A. Kharkwal, Nitu, K. Jain, S. B. Tyagi, **M. Kharkwal\***, Colloid and Polymer Science, 293, 1953–1959, 2015, DOI 10.1007/s00396-015-3574-z 5 ISSN: 0303-402X.
- 4 “One-Pot Synthesis of CuInS<sub>2</sub> and CuInS<sub>2</sub>/MS (M=Cd, Zn) Core-shell Luminescent Nanocrystals: A Low-Temperature and Low-Cost Approach” A. Kharkwal, K. Jain, S. B. Tyagi, A. K. Singh, S. N. Sharma, **M. Kharkwal\***, Colloid and Polymer Science, 292, 2913–2926, 2014, DOI: 10.1007/s00396-014-3326-5 ISSN: 0303-402X.
- 5 “Synthesis and Optical Properties of Pure CdTiO<sub>3</sub> and Ni<sup>2+</sup> and Zn<sup>2+</sup> Ion Substituted CdTiO<sub>3</sub> Obtained by Novel Precursor Route” **M. Kharkwal**, S. Uma, and R. Nagarajan, Indian Journal of Chemistry, 51A, 1538-1544, 2012, E-ISSN: 0975-0975, ISSN: 0376-4710.
- 6 “Application of KZnF<sub>3</sub> as a Single Source Precursor for the Synthesis of Nanocrystals of ZnO<sub>2</sub>:F and ZnO:F; Synthesis, Characterization, Optical, and Photocatalytic Properties” S. Ahmad, **M. Kharkwal**, R. Nagarajan, The Journal of Physical Chemistry C, 115, 10131–10139, 2011, DOI:<http://dx.doi.org/10.1021/jp201292d>, ISSN:1932-7447;E-ISSN:1932-7455.

7. “Comments on “Visible-Light-Induced Photocatalyst Based on Nickel Titanate Nanoparticles” **M. Kharkwal**, S. Uma, R. Nagarajan, Industrial & Engineering Chemistry Research, 49(4), 1995-1996, 2010, DOI: <http://dx.doi.org/10.1021/ie9018879>. ISSN: 0888-5885; E-ISSN: 1520-5045.
8. “Use of a Chelating Agent for the Synthesis of High Surface Area Pyrophanite  $MnTiO_3$  Powders” **M. Kharkwal**, S. Uma, R. Nagarajan, Materials Letters, 64(6), 692-694, 2010, DOI: 10.1016/j.matlet.2009.12.040. ISSN: 0167-577X.
9. “Synthesis and Characterization of Titanates of the Formula  $MTiO_3$  (M=Mn, Fe, Co, Ni and Cd) by Co-precipitation of Mixed Metal Oxalate” Y. K. Sharma, **M. Kharkwal**, S. Uma, R. Nagarajan, Polyhedron, 28(3), 579-585, 2009. DOI: 10.1016/j.poly.2008.11.056. ISSN: 0277-5387.