CURRICULUM VITAE

SHRADDHA AGRAWAL

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Permanent Address; Shraddha Agrawal W/O Sumit Varshney House No M-813 Block - B2, Ashiana Surbhi , Near Khori Kalan Bus stand ,Village Rampura - Bhiwadi Rajasthan 301019
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Present Position; Working as principal investigator under Department of Science and Technology (DST), Women Scientist Scheme –A (WOS-A) entitled "Synthesis and characterization of magnetic nanoparticles and their biomedical, photo catalysis applications" in Department of Applied Physics, Faculty of Engineering & Technology Aligarh Muslim University (AMU), Aligarh-202002, India

Project No. SR/WOS-A/ET-148/2016
Ph.D. Title Synthesis and characterization of magnetic nanoparticles and their biomedical applications

Educational Qualifications

Degree	year	University	Specialization	Marks
Ph.D.	2018	Aligarh Muslim University	Applied Physics	Awarded
M. Tech.	2012	Aligarh Muslim University	Nanotechnology	73.26
M.Sc.	2010	Aligarh Muslim University	Condensed Matter Physics, High Energy Physics	70.7
B.Sc.(HONS)	2007	Aligarh Muslim University	Physics	68.2
12	2004	U.P. Board	Physics, Chemistry, Math , Hindi, English	72.6
10	2002	U.P. Board	Math , Science , Social Science , Hindi English , Art	60.0

Paper Published in International Journals:

1. **Shraddha Agrawal**, Azra Parveen, Ameer Azam, Microwave assisted synthesis of Co doped NiO nanoparticles and its fluorescence properties. Journal of Luminescence 184(2017)250–255. doi:10.1016/j.jlumin.2016.12.035.

2. **Shraddha Agrawal**, Azra Parveen, Ameer Azam, Structural, electrical, and optomagnetic tweaking of Zn doped $CoFe_{2-x}Zn_xO_{4-\delta}$ nanoparticles, Jounral of Magnetism and Magnetic Materials, 414 (2016) 144–152. doi:10.1016/j.jmmm.2016.04.059.

3. **Shraddha Agrawal**, Azra Parveen, Ameer Azam, Influence of Mg on structural, electrical and magnetic properties of $CuAlO_2$ nanoparticles, Materials Letter 168 (2016) 125–128. doi:10.1016/j.matlet.2016.01.046.

4. **Shraddha Agrawal**, Ali Jawad, S.S.Z. Ashraf, Alim Hussin Naqvi , Structural, Optical, Dielectric and Magnetic Properties of Cu Doped BiFeO3 Nanoparticles Synthesized by Sol Gel Method, Materials Focus 3 (2014) 60-66. doi: 10.1166/mat.2014.1138.

5. Azra Parveen, **Shraddha Agrawal,** Regulated Electromagnetic Behavior of Transition Metal–Doped Lead Sulfide Pb0.9A0.1S (A: Fe, Co, and Ni) Nanoparticles Journal of Superconductivity and Novel Magnetism (2019) doi:10.1007/s10948-019-05338-8

6. Azra Parveen, **Shraddha Agrawal**, Ameer Azam, Band gap tuning and fluorescence properties of lead sulfide Pb0.9A0.1S (A: Fe, Co, and Ni) nanoparticles by transition metal doping, Optical Materials, 76C (2018) pp. 21- 27.

7. Jitendra Bahadur, **Shraddha Agrawal**, Vinay Panwar, Azra Parveen, Kaushik Pal, Antibacterial properties of silver doped TiO_2 nanoparticles synthesized via sol-gel technique, Macromolecular Research 24 (2016) 488–493. doi:10.1007/s13233-016-4066-9.

8. Jitendra Bahadur, **Shraddha Agrawal**, Azra Parveen, Ali Jawad, S.S.Z. Ashraf, Raza Murad Ghalib, Micro-Structural, Optical and Dielectric Properties of Ag Doped TiO_2 Synthesized by Sol–Gel Method, Materials Focus 4 (2015) 134–141. doi:10.1166/mat.2015.1228.

Papers in Conferences / Workshops

1. **Shraddha Agrawal** , Azra Parveen, and Ameer Azam Microstructural and optical properties of Ca and Cr doped cobalt ferrite nanoparticles synthesized by auto combustion AIP Conference Proceedings 1953, 030230 (2018); https://doi.org/10.1063/1.5032565

2. **Shraddha Agrawal**, Azra Parveen, and Ameer Azam Electrical and thermal properties of Ca and Ni doped barium ferrite AIP Conference Proceedings 1953, 030012 (2018); https://doi.org/10.1063/1.5032347

3. Azra Parveen, **Shraddha Agrawal**, and Ameer Azam Variation in band gap energy and electrical analysis of double doped cobalt ferrite AIP Conference Proceedings 1953, 030028 (2018); https://doi.org/10.1063/1.5032363

4. Azra Parveen , **Shraddha Agrawal**, and Ameer Azam Microstructural and optical properties of Co doped NiO nanoparticles synthesized by auto combustion using NaOH as fuel AIP Conference Proceedings 1953, 030231 (2018); https://doi.org/10.1063/1.5032566

5. Hadeel Salih Mahdi, Azra Parveen, **Shraddha Agrawal**, and Ameer Azam Microstructural and optical properties of CdS nanoparticles synthesized by sol gel method AIP Conference Proceedings 1953, 030013 (2018); https://doi.org/10.1063/1.5032348

6. Azra Parveen, Syed Afzal Ahmad, **Shraddha Agrawal**, Ameer Azam, Room temperature variation in dielectric and electrical properties of Mn doped SnO2 nanoparticles, (2017), Materials Today: Proceedings, 4 (2017) 9429–9433.

7. Hadeel Salih Mahdi, Azra Parveen, **Shraddha Agrawal**, and Ameer Azam Microstructural and optical properties of sol gel synthesized CdS nano particles using CTAB as a surfactant AIP Conference Proceedings 1832, 050012 (2017); https://doi.org/10.1063/1.4980245

8. **Shraddha Agrawal**, Azra Parveen, Ameer Azam, Room temperature optical and dielectric properties of Ca and Ni doped barium ferrite, AIP Conference Proceedings,1728, 2016: p. 020205. doi:10.1063/1.4946256.

9. Azra Parveen, **Shraddha. Agrawal**, Ameer Azam, Thermal properties of transition metals doped (A: Co, Ni and Cu) $BiFe_{0.9}A_{0.1}O_3$, AIP Conference Proceedings, 1728 ,2016: p. 020208. doi:10.1063/1.4946259.

10. Saba Taufeeq, Azra Parveen, **Shraddha Agrawal**, Ameer Azam, Microstructural and thermal properties of pure BaFe12O19 and Sr doped barium ferrite ($Ba_{0.9}Sr_{0.1}Fe_{12}O_{19}$) synthesized by auto combustion method, AIP Conference Proceedings , 1731 ,2016: p. 050101. doi:10.1063/1.4947755.

11. **Shraddha. Agrawal**, Azra Parveen, Alim Hussain Naqvi, Auto-combustion synthesis and characterization of Mg doped $CuAlO_2$ nanoparticles, AIP Conference Proceedings, 1665,2015: p. 050080. doi:10.1063/1.4917721.

12. Azra Parveen, **Shraddha Agrawal**, Alim Hussain Naqvi, Structural, optical and transport properties of transition metals doped (A: Co, Ni and Cu) $BiFe_{0.9}A_{0.1}O_3$, AIP Conference Proceedings,1665, 2015: p. 050016. doi:10.1063/1.4917657.

CONFRENCES/WORKSHOP/SEMINAR:

1. Participation i**n** International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN:3I-2017), organised by IIT Roorkee during 06-08 Dec 2017
2. Participation i**n** International Conference on Condensed matter & Applied Physics (ICC 2017) organised by government engineering college, Bikaner during 24-25 Nov 2017.
3. Participation i**n "**International Conference on Condensed Matter and Applied Physics *(ICC 2015),* in the Department of Physics, Government Engineering College, Bikaner during October 30-31, 2015.
4. Participation i**n "***International Conference on Nanoscience and Nanotechnology, Aligarh Nano-IV",* in the Department of Applied Physics, Aligarh Muslim University, Aligarh during March 8-10, 2014.

5. Participation in **"***National Conference on Nanoscience and Nanotechnology, Aligarh Nano-III"*, in the Department of Applied Physics, Aligarh Muslim University, Aligarh during March 15-16, 2013.
6. Participation in "*National Conference on Nanoscience and Nanotechnology, Aligarh Nano-II"*, in the Department of Applied Physics, Aligarh Muslim University, Aligarh during March 10-12, 2012.
7. Participation in Two-Week "*ISTE Workshop on Engineering Thermodynamics*" conducted by Indian Institute of Technology Bombay from 11 to 21 December ,2012
8. Participation in **"***National Workshop on Nanoscience and Nanotechnology, Aligarh Nano-I",* in the Department of Applied Physics, Aligarh Muslim University, Aligarh during March 26-27, 2011.
9. Participation in "*National Seminar on Frontiers of Condensed Matter Physics*" Organized by the Department of Physics, Aligarh Muslim University Aligarh on March 27, 2010.

Experience

- Worked as a Project Assistant in A.M.U. Aligarh from 22 June 2013 .to 30 September 2013

ACHIEVEMENT:

- Awarded by Women Scientist under the Department of Science and Technology (DST), Government of India [(WOS-A)] scheme.
- UGC NON Net fellowship from 29-01-2014 to 31 July 2017
- DST fellowship in M. Tech (2010-12)curriculum of Rs. 8000 pm with contingency
- Certificate of Merit from Woman's colleges A.M.U. Aligarh in 2007
- Awarded by Medha Smriti Award in 2002

AREA OF INTEREST:

- Solid State Physics & Material Physics, Particle Physics, Nanotechnology, Characterization and synthesis of Nanomaterial's.

STRENGTH:

- Good listener with excellent interpersonal and communicational skills
- Quick learner, positive attitude, Self-confidence and Eagerness to get perfection
- Ability to achieve immediate and long term goals and to work autonomously as well as in a team

ADDITIONAL SKILLS:

- Efficient in Powder-X, Origin 8.6 software's
- Well versed in computer operation systems windows 98 / 2000 / Languages: C, C^{++} , FORTRAN
- Certificate in Computer Applications from N.I.O.S New Delhi (80%)

PERSONAL DETAILS:

Date of Birth : 13.10.1988

Sex : Female

Marital status : Married

Language known : English, Hindi (Writing & Speaking)

I, hereby declare that all the information given above is true to the best of my knowledge.

Shraddha Agrawal