CURRICULUM VITAE

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Dr. Sangeeta Bhogal

Carrier Objective:

To utilize my knowledge and skills towards a challenging career in a growth oriented & leading edge organization that recognizes and values individual contribution & will provide opportunity for continuing growth and advancement.

Personal Details

Nationality: Indian Date of Birth: 30/06/91 Sex: Female

Academic Qualification:

- PhD in Chemistry from Shoolini University, Solan.
  Thesis Title: 'Trimetallic Nanoparticles and Their Nanocomposites: Fabrication, Characterization and Applications'
  Supervisor: Dr. Gaurav Sharma
- M. Phil (Chemistry) from Shoolini University, Solan (2015-2016) (87%).
  Thesis Title: "Microwave assisted Greener fabrication of Trimetallics & their nanocomposites."
  Supervisor: Dr. Gaurav Sharma
- M.Sc. Chemistry ***(Specialization in Inorganic Chemistry)*** from Shoolini University, Solan (2013-2015) (84%).
  Thesis Title: "Preparation and characterization of Bi_2WO_6 composites for the removal of Malachite green dye."
  Supervisor: Dr. Pankaj Raizada
- Bachelor of Science with Chemistry, Zoology & Botany from Post Graduate Collage, Una (H.P.) (2010-2013) (70%).
- XII from H.P. Board Dharamshala (2010) (71%).
- X from H.P. Board Dharamshala.

Brief Summary of Research work:

- To synthesize La/Cu/Zr trimetallics nanoparticles (TNPs) using greener microwave method.
- To synthesize La/Cu/Zr trimetallic nanocomposites (TNCs) with algal biochar and carbon dots using greener microwave method.
- Characterization of synthesize trimetallic nanoparticles and trimetallic nanocomposites by various techniques such as scanning electron microscopy (SEM), transmission electron microscopy (TEM), X- ray diffractrometer (XRD) , fourier transform infrared spectroscopy (FTIR) and UV– Vis (Ultraviolet-visible spectroscopy).
- To study photodegradation of organic pollutant (such as malachite green and ampicilline antibiotic) using indigenously synthesis TNPs and TNCs.
- To explore the cataltic activity of synthesized TNPs and TNCs for organic reactions.
- To study antimicrobial activities of TNPs and TNCs.

Instrumental handling:

- ✓ UV-Visible Spectrophotometer
- ✓ FTIR
- ✓ pH Meter
- ✓ Centrifuge

Publications:

1. **S. Bhogal**, G. Sharma, M. Naushad, A. Kumar, F.J. Stadler, Fabrication of AgO-MgO-FeO trimetallic nanocomposites for photocatalytic remediation of atrazine, Journal of Molecular Liquids, 2020, 453-456 (Impact Factor-5.065).

2. G. Sharma, **S. Bhogal**, V.K. Gupta, S. Agarwal, A. Kumar, D. Pathania, G.T. Mola, F.J. Stadler, Algal biochar reinforced trimetallic nanocomposite as adsorptional/photocatalyst for remediation of malachite green from aqueous medium, Journal of Molecular Liquids, 2019, 275, 499-509 (Impact Factor-5.065).

3. G. Sharma, **S. Bhogal**, V.K. Gupta, S. Agarwal, M. Naushad, A. Kumar, F.J. Stadler, Fabrication and characterization of trimetallic nano-photocatalyst for remediation of ampicillin antibiotic, Journal of Molecular Liquids, 2018, 260, 342-350 (Impact Factor-5.065) .

4. G. Sharma, **S. Bhogal**, M. Naushad, Inamuddin, A. Kumar, F.J. Stadler, Microwave assisted fabrication of La/Cu/Zr/carbon dots trimetallic nanocomposites with their adsorptional vs photocatalytic efficiency for remediation of persistent organic pollutants, Journal of Photochemistry and Photobiology A: Chemistry, 2017, 347, 235-243 (Impact Factor-3.0).

5. G. Sharma, **S. Bhogal**, M. Naushad, A. Kumar, F.J. Stadler, AgO/MgO/FeO@Si_3N_4 nanocomposite with robust adsorption capacity for tetracycline antibiotic removal from aqueous system, Advanced Powder Technology, 2020, 212, 4-14 (Impact Factor-4.2).

6. **S. Bhogal**, G. Sharma, M. Naushad, A. Kumar, F.J. Stadler, Ag_2O-Al_2O_3-ZrO_2 trimetallic nanocatalyst for high performance photodegradation of nicosulfuron herbicide, Topics in Catalysis, 2020,212, 1-15 (Impact Factor-2.5).

Conferences:

Conferences attended and papers presented

- **Sangeeta Bhogal,** Gaurav Sharma. Algal biochar reinforced trimetallic nanocomposite as adsorptional/photocatalyst for remediation of malachite green from aqueous medium. International Conference on Electron Microscope & Allied Analytical Techniques (EMAAT-2019) organised by Himachal Pradesh University, Shimla and Electron Microscope Society of India (EMSI) held at Adventure Resort Kufri, Shimla (H.P) India 7-9 June 2019. (PP-42)
- **Sangeeta Bhogal,** Gaurav Sharma. Microwave assisted fabrication of La/Cu/Zr/carbon dots trimetallic nanocomposites with their adsorptional vs photocatalytic efficiency for remediation of persistent organic pollutants. International Conference on Science emerging scenario and future challenges (SESFC) organised by Him Science congress Association at Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports, Manali, Himachal Pradesh. 01-02, July 2017. (CS29)
- **Sangeeta Bhogal**. National Seminar cum Workshop on Advanced Scientific Techniques-2017, Shoolini University (Attended).
- **Sangeeta Bhogal**. International conference on Science: Emerging Scenario & Future Challenges organized by Him Science congress Association, Himachal Pradesh. 11-12 June 2016. (Attended).
- **Sangeeta Bhogal**. ASSOCAM Conference on APIs: Reducing Dependence on Imports held in Baddi Himachal Pradesh 2016, 28, July 2016 (Attended).

- **Sangeeta Bhogal**. National Conference on smart materials: Advance in Research and Technique. Shoolini University. 26-27 November 2015. (Attended).

Additional Achievements:

- I have done one year project work in M.Sc.
- I achieved first prize in Science Exhibition during B.Sc Degree.
- I achieved best culture team award in Basic Science Sprint during M.Sc Degree.
- Ist topper in Hindi during B.sc Degree.
- I achieved Ist prize in State level Dance (Bhangra) competition.
- Ist prize in Poster presentation in Moksh 2018.
- Poster presentation in international conference.
- I got certificate in modeling (Moksh 2018).
- I was selected as finalist in AXA HUNT model (2018).
- I have 8 months experience of teaching for B.Sc and M.Sc students in Shoolini University Solan (HP).
- I have 2 years experience of warden ship at SILB Solan.
- **Presently working as Assistant Professor in Shoolini Institute of business studies and life sciences (SILB), Solan (2018 onward).**

Reference:

- Dr. Gaurav Sharma, School of Chemistry, Asst. Professor, Shoolini University, Solan, gaurav8777@gmail.com
- Dr. Amit Kumar, School of Chemistry, Asst. Professor, Shoolini University, Solan, dramitchem@gmail.com
- Dr Deepak Pathania, Dean of Basic Sciences, Shoolini University Solan, dpathania74@gmail.com.
- Dr. Pankaj Raizada, School of Chemistry, Asst. Professor, Shoolini University, Solan, pankajraizada@gmail.com

Personal Information:

Name	:	Dr. Sangeeta Bhogal
Father's Name	:	Sh. Dharam Paul Bhogal
Date of Birth	:	30th June, 1991
Marital Status	:	Unmarried
Languages Known	:	English, Punjabi & Hindi
Hobbies	:	Traveling, Reading, Listening Music, Dancing.

Place: Solan

Sangeeta Bhogal