Dr. ANGARAJ SINGH

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Objective: To work in a creative, innovative and challenging environment and help to achieve organization's objectives in the most efficient manner by applying my skills and abilities with continuous improvement of my technical and analytical skills.

EDUCATION

Ph. D from **Indian Institute of Technology** (Banaras Hindu University), Varanasi, India

Discipline: Ceramic Engineering (Material Science and Engineering)

Specialization: Composite materials, Biomaterials, piezoelectric materials

Research Area: Synthesis and characterization of composite materials

M. Tech. Material science and engineering, MNNIT Allahabad **(NIT Allahabad),** 76 % (2015).

B. Tech. Mechanical engineering, UPTU, 73.8 % (2012)

XIIth UP board, 68.6 % (2007)

Xth UP board, 69.66 % (2005)

PUBLICATIONS

JOURNALS

1. **Angaraj Singh**, Priya Singh and Ashutosh Kumar Dubey, Effect of incorporation of piezoelectric phases on antibacterial and cellular response of borate bioactive glass. ***Open Ceramic, 2022,***
2. **Angaraj Singh** and Ashutosh Kumar Dubey, Improved Antibacterial and Cellular Response of Piezobioceramics and Electrats. ***Journal of biomaterials applications, 2021*** (18) 885328221991965.

3. **Angaraj Singh,** Kuppili Reshma, Ashutosh Kumar Dubey, Combined effect of surface polarization and ZnO addition on antibacterial and cellular response of Hydroxyapatite-ZnO composites***. Materials Science and Engineering: C 107, 2020,*** 110363.
4. **Angaraj Singh**, Ashutosh Kumar Dubey, Various Biomaterials and Techniques for Improving Antibacterial Response, ***ACS Appl. Bio Mater.*** **2018, 1, 1, 3-20.**
5. **Angaraj Singh**, Manoj Kumar, and Ashutosh Kumar Dubey, Effect of pre-existing diseases on COVID-19 infection and role of new sensors and biomaterials for its detection and treatment, Medical Devices and Sensors, 2020,doi; 10.1002/mds3.10140.
6. Deepak Khare, **Angaraj Singh**, and Ashutosh Kumar Dubey Influence of Na and K content on the antibacterial response of piezoelectric biocompatible NaxK1-xNbO3 (x = 0.2 - 0.8), ***Materials today communication, 2021 (27) 102317.***
7. Abhinav Saxena, Deepak Khare, Swati Agrawal, **Angaraj Singh** and Ashutosh Kumar Dubey, Recent advances in materials science: a reinforced approach toward challenges against COVID-19, Emergent Materials. 2021, doi: 10.1007/s42247-021-00179-5.
8. Tanu Srivastava, S. K. Mishra, O. P. Tiwari, Kavindra Nath Tiwari, Pradeep Kumar, Jitendra Kumar, Amit Kumar Singh, **Angaraj Singh**, Ashutosh Dwivedi, Green synthesis, Characterization and In vitro Biological Studies of Quercetin complexes with Zn (II) Acetate and N^N Moiety." ***Research J. Pharm. and Tech. 2021; 14(7):3585-3590*** DOI: 10.52711/0974-360X.2021.00620
9. Alok Singh Verma, **Angaraj Singh**, Devendra Kumar, Ashutosh Kumar Dubey, Electro-mechanical and polarization induced antibacterial response of 45S5 Bioglass-$Na_{0.5}K_{0.5}NbO_3$ ceramic composites, ACS Biomaterial science and Engineering10.1021/acsbiomaterials.0c00091.
10. Tanu Srivastava , Sunil Kumar Mishra , Om Prakash Tiwari , Avinash Kumar Sonkar , Kavindra Nath Tiwari , Pradeep Kumar , Jyoti Dixit , Jitendra Kumar , Amit Kumar Singh , Pooja Verma , Rajesh Saini , **Angaraj Singh** & Ashutosh Kumar Dwivedi, Synthesis, characterization, antimicrobial and cytotoxicity evaluation of quaternary cadmium (II)- quercetin complexes with 1,10-

phenanthroline or 2,2'-bipyridine ligands Biotechnology & Biotechnological Equipment,2020, 34(1) 999–1012.

11. Vipul Saxena, Vijay Kumar, **Angaraj Singh**, Vinay Kumar Singh "Effect of reinforcing S53P4 bioactive glass on physio-mechanical and biological properties of Ti –8Nb–2Fe alloy***" Ceramics International 45 (2019) 21810–21818.***

WORKSHOPS AND CONFERENCES ATTENDED

- Poster presentation on Polarization Induced Antibacterial Response of Hydroxyapatitein 81st Annual Session of Indian Ceramic Society and International Conference on "Expanding Horizons of Technological Applications of Ceramics and Glasses (EH-TACAG'17)"held on "12-16 December, 2017.
- Workshop on "Role of Nuclear Technology in Human," 25 May 2019 at IIT BHU Varanasi.
- Workshop on "Academic wring for research scholar," January 15-19, 2019 at IIT BHU Varanasi

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SKILLS

- Origin lab and IBM SPSS statistical analytical software
- Good hand in Lab instruments like poling unit, Fluorescence microscopy, Microbiology lab, cell culture lab, etc.

PERSONAL INFORMATION

Father's Name: Shiv Bhookshan Singh

Mother's Name: Isaravati Devi

Date of Birth: 10/10/1992

Address: Village- Chhekawa, Post- Bhakanda Dist- Kaushambi, Pin-212216

Nationality: Indian

Language Known: Hindi and English