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Date of Birth: 18 September 1988. Nationality: Pakistani

Sehrish Habib

Research Assistant

**Center for Advanced Materials (CAM)/Department of Chemical Eng.
Office of VP for Research and Graduate Studies
Qatar University, P.O. Box 2713, Doha, Qatar**



RESEARCH INTERESTS:

Synthesis and characterization of novel nanocomposite coatings for anti-corrosion applications in oil and gas industry.

WORK EXPERIENCE:

5/2018 till now: Research Assistant-Center for Advanced Materials (CAM), Qatar University, Doha, Qatar.

- ✦ Working as a research assistant on project "Smart Corrosion Protection Strategies for Steel materials in Oil and Gas Industry" under Qatar research fund a member of Qatar foundation in collaboration with Qatar shell.
- ✦ Development of polymeric nanocomposite coatings containing Corrosion inhibitor encapsulated in Smart containers.
- ✦ Provided research support by conducting experimental work and analyzing data.
- ✦ Prepared report based on methodology and conclusion.
- ✦ Assisted with research papers for publications.
- ✦ Assisting internship students.

09/2012–07/2013 Visiting Faculty for Chemistry, International Petroleum College, Fateh Jhang (Pakistan)

- ✦ Worked as visiting faculty for teaching General Chemistry to the students of Diploma in Drilling Engineering.
- ✦ Taught in different setting from small groups to large lectures to make sure content, method and learning material meet the defined learning objective.
- ✦ Planned day to day activity within frame of agreed program.
- ✦ Produced material that supported learning by designing curriculum

09/2011–08/2012 Secondary education teaching professional, Beacon house School System, Jhelum (Pakistan)

- ✦ Taught Chemistry (CIE) syllabus to O'levels students.
- ✦ Taught Geography to 7 grade students.
- ✦ Planned work sheets on weekly basis to assess students.
- ✦ Organized different events in school and actively participated in managing events.
- ✦ Good team worker.
- ✦ Attended INDUCTION COURSE at Gujarat Pakistan held by Beacon house school system Northern region based on teacher student interaction and collaborative learning 3 days certification.
- ✦ Attended British council workshop at Beacon house Margalla Institute Islamabad Pakistan

EDUCATION:

2012–2014 Master's in Materials and Surface Engineering MS, National University of science and technology (NUST), Islamabad (Pakistan)

Advisor: Prof. Dr. Nasir Ahmed

MS thesis title: Development of anti-UV emulsion and self-assembled multi-layer thin film coating through layer by layer technique for bio medical textiles applications.

2009–2011 Master's in chemistry MSc (Inorganic/Analytical Chemistry), University of Wah, Wah Cantt, Pakistan.

2006–2008 Bachelor of Science BSc, University of Punjab, Lahore, Pakistan

PUBLICATIONS:

1. International Journal Publications:

1. **Sehrish Habib**, Eman Fayed, R.A.Shakoor, Ramazan Kahraman, Aboubakr Abdullah, “Improved self-healing performance of polymeric nanocomposites reinforced with talc nanoparticles (TNPs) and urea-formaldehyde microcapsules (UFMCs)”. <https://doi.org/10.1016/j.arabjc.2020.102926> (IF=4.762)
2. Adnan Khan, Amani Hassanein, **Sehrish Habib**, Muddasir Nawaz, R.A Shakoor, Ramazan Kahraman, Hybrid halloysite nanotubes as smart carriers for corrosion protection. <https://doi.org/10.1021/acsami.0c08953> (I.F=8.758)
3. **Sehrish Habib**, Eman Fayyad, Muddasir Nawaz, Adnan Khan, R. A. Shakoor, Ramazan Kahraman, Aboubakr Abdullah, “Cerium dioxide nanoparticles as smart carriers for self-healing coatings”, <https://doi.org/10.3390/nano10040791> (I.F=4.034).
4. Muddasir Nawaz, **Sehrish Habib**, Adnan Khan, R. A. Shakoor, Ramazan Kahraman, “Cellulose microfibrils (CMFs) as a smart carrier for autonomous self-healing in epoxy coating”, <https://doi.org/10.1039/C9NJ06436B> (I.F=3.069).
5. **Sehrish Habib**, Adnan Khan, Muddasir Nawaz, Mostafa H. Sliem, R. A. Shakoor, Ramazan Kahraman, Aboubakr M. Abdullah, Atef Zekri, “Self-Healing Performance of Multifunctional Polymeric Smart Coatings”, <https://doi.org/10.3390/polym11091519> (I.F=3.426).
6. Muddasir Nawaz, Noor Yusuf, **Sehrish Habib**, R. A. Shakoor, Fareeha Ubaid, Zubair Ahmad, Ramazan Kahraman, Said Mansour, Wei Gao, “Development and properties of polymeric nanocomposite coatings”, <https://doi.org/10.3390/polym11050852> (I.F= 3.426).
7. **Sehrish Habib**, R.A. Shakoor, Ramazan Kahraman, Smart nanocontainers: A reservoir for corrosion protection of steel in oil and gas industry, (Review article) **Status: under review in Progress in organic coating journal**

2. Conference Publications & Presentations

1. **Habib S.**, Fayed E., Nawaz M., Khan A., Shakoor A., Karahman R., Abdullah A., "Selfhealing performance of smart coatings modified with different corrosion inhibitors", Qatar University Annual Research Forum and Exhibition (QUARFE 2020), Doha, 28 October 2020, DOI: <https://doi.org/10.29117/quarfe.2020.0002>
2. **Nawaz M.**, Habib S., Khan A., Shakoor R.A., Kahraman R., "Cellulose microfibrils (CMFs) reinforced smart self-healing polymeric composite coatings for corrosion protection of steel", Qatar University Annual Research Forum and Exhibition (QUARFE 2020), Doha, 28 October 2020, DOI: <https://doi.org/10.29117/quarfe.2020.0003>
3. **Sehrish Habib**, Eman Fayyad, Abdul Shakoor*, Ramazan Karahman, Aboubakar Abdullah, “Smart polymeric coatings for corrosion protection in the oil and gas industry”. **Webinar on Materials Science and Nanotechnology, IMAT 2020, Oral Presentation, 19-20 October 2020.**
4. **Sehrish Habib**, Eman Fayed, Abdul Shakoor, Ramazan Kahraman, Aboubakar Abdullah, “Improved self-healing performance of polymeric nanocomposites reinforced with talc nanoparticles (TNPs) and urea-formaldehyde microcapsules (UFMCs), **Online IAAM Video Proceedings, 6th July 2020, Advanced Materials Lecture Series.**
5. Muddasir Nawaz, Fareeha Ubaid, **Sehrish Habib**, Adnan Khan, R. A. Shakoor, Ramazan Kahraman, M. F. Montemor, “Exploring self-healing performance of novel polymeric nanocomposites”, **SNAIA 2019, 10-13, Paris, France.**
6. **Sehrish Habib**, Adnan Khan, Mostafa Sliem, R. A. Shakoor, Ramazan Kahraman, Atef Zekri, “Novel multifunctional nanocomposite coatings for anticorrosive applications” **ICCE-27 Granada, Spain, July 14-20, 2019.**
7. Adnan Khan, **Sehrish Habib**, Fareeha Ubaid, R. A. Shakoor, Zubair Ahmad, Ramazan Kahraman, “Synthesis and properties of polyelectrolyte multilayered microcapsules reinforced smart coatings”, **EUROCORR 2019, 9-14 September (2019), Seville, Spain.**

8. **Sehrish Habib**, R. A. Shakoor, Ramazan Kahraman, M. F. Montemor, "Multifunctional Nanocomposite coatings for corrosion protection of low carbon steel", ", **Qatar University Annual Research Forum and Exhibition (QUARFE), 23-24 April 2019, Doha, Qatar.**
9. Muddasir Nawaz, Noor Yusuf, **Sehrish Habib**, R. A. Shakoor, Fareeha Ubaid, Zubair Ahmad, Ramazan Kahraman, Smart polymeric nanocomposite coatings: Effect of pH of environment", **Advanced Functional Materials Congress (AFMC), 24-27 March 2019, Stockholm, Sweden.**

3. BOOK CHAPTERS

1. Naseer, Nadia; Asghar, Arfaa; Faitma, Hira; Fatima, Nosheen; **Habib, Sehrish**; Ahmad, Nasir M.;Elaissari, Abdelhamid. "Stimuli-Responsive Polymers." In Encyclopedia of Biomedical Polymers and Polymer Biomaterials, 1st Ed.; Mishra, M., Ed.; Taylor & Francis: New York, 2015; Vol. 11, 7663-7674.

TECHNICAL SKILLS:

- ✚ Characterization techniques (SEM, XRD, TEM, XPS, FTIR, Optical Microscopy and EIS).

LANGUAGES:

- ✚ English (Excellent- reading/writing/speaking)
- ✚ Urdu (Excellent- reading/writing/speaking)
- ✚ Punjabi (Excellent speaking)
- ✚ Arabic (fair)

EXTRA CO- CIRUCULAR ACTIVITIES:

- ✚ Blogging (Personal blog on cooking and life style).

LIST OF REFEREES:

✚ **Dr. Abdul Shakoor**

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✚ **Prof. Ramazan Kahraman**

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✚ **Dr. Zubair Ahmad**

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✚ **Dr. Nasir.M. Ahmed**

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School of Chemical and Materials Engineering (SCME) National University of Sciences and
Technology (NUST), H-12 Sector, Islamabad-44000. Pakistan.
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