

**DR. MOHAMMAD SOHAIL**

	
<b>Designation:</b>	<b>Assistant Professor</b>
<b>E-Mail Address:</b>	E-mail: <a href="mailto:msohail2000@uswat.com">msohail2000@uswat.com</a> <a href="mailto:msohail2000@gmail.com">msohail2000@gmail.com</a> Cell No: 0341-1506270
<b>Education:</b>	<ol style="list-style-type: none"><li>1. PhD (Physical Chemistry) (2016) University of Peshawar</li><li>2. MPhil (Physical Chemistry) (2013) University of Peshawar</li><li>3. MSc (Chemistry) (2009) Hazara University Mansehra</li><li>4. B.Sc (Chemistry/Biology) (2007) Hazara University Mansehra</li><li>5. HSSC (Pre-Medical) (2000) BISE Swat</li><li>6. SSC (Science Group) (1997) BISE Peshawar</li><li>7. B.Ed (General) (2012) AIOU Islamabad</li><li>8. M.Ed (Science) (2018) AIOU Islamabad</li></ol>
<b>Experience</b>	<ol style="list-style-type: none"><li>1. University of Swat DOA: 01-06-2017- Till Date Status: Assistant Professor (TTS)</li><li>2. University of Swat 2017-Till Date Status: Member Curriculum Developing Committee</li><li>3. Shaheed BB University Sheringal Dir (U) From 14-04-2014 to 31-05-2017 Status: Lecturer</li><li>4. Govt. Degree College Oghi Mansehra From August 2007 to July 2008 Status: lecturer</li></ol>
<b>Honors and Awards</b>	<ol style="list-style-type: none"><li>1. Merit Award Scholarship for MPhil studies</li><li>2. Merit Award Scholarship for PhD studies</li><li>3. <b><u>HEC Approved PhD Supervisor</u></b> <b>Dr. Mohammad Sohail</b> has been selected as HEC Approved Supervisor for a period of three (3)</li></ol>

	years (From April 2018- April 2021).
<b>Memberships</b>	<ol style="list-style-type: none"> <li>1. Member of the International Union of Pure and Applied Chemistry (IUPAC)</li> <li>2. Member admissions committee, ICS, UoS</li> <li>3. Member curriculum development of ICS, UoS</li> <li>4. MSc Semester Assistant Coordinator</li> </ol>
<b>Brief Statement of Research Interest</b>	Conducting Polymers, Composites, Graphene based Smart Materials, Nanomaterials, Biosensors, Electronic materials
<b>Publications</b>	<ol style="list-style-type: none"> <li>1. <b>M. Sohail</b>, Sana Ullah, Shafiq ur Rahman, Bilal Ahmaed, Adnan, Ihsan Ullah. Synthesis and Characterization of Mg based TiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> Composite materials. <b>Accepted in Metal and Materials International Journal (Springer).</b></li> <li>2. Sana Ullah, <b>M. Sohail</b>, Dionysios D. Degradation of highly chlorinated pesticide, lindane, in water using UV/persulfate: kinetics and mechanism, toxicity evaluation, and synergism by H<sub>2</sub>O<sub>2</sub>. <i>J. Hazardous Materials</i>. <b>Accepted</b> (Ms. Ref. No.: HAZMAT-D-20-00035R2)</li> <li>3. Sana Ullah, Cahngseok Han, Murtaza Sayed, <b>Mohammad Sohail</b>, Safeer Jan, Sabiha Sultana, Hasan M. Khan, Dionysios D. Exhaustive Photocatalytic Lindane Degradation by Combined Simulated Solar Light-Activated Nanocrystalline TiO<sub>2</sub> and Inorganic Oxidants, <i>Catalysts</i>, 2019, 9(5) 425.</li> <li>4. Noor Saeed, Arbab Safeer, Luqman Ali, Latafat Ara, M. Farooq, M. Sohail, Safaa I. Thermal and Rheological study of nanocomposites, reinforced with Bi-phase ceramic nanoparticles. <i>Z. Phys. Chem.</i> 2018; (DE GRUYTER).</li> <li>5. <b>M. Sohail</b>, M. Saleem Khan, M. Omer, Ihsan Ullah, Noor Saeed, Sana Ullah, Zakir Ullah, Sami-ur Rahman, Synthesis, morphology, structural and rheological studies of Fe<sub>0.01</sub>Al<sub>0.5</sub>La<sub>0.01</sub>Zn<sub>0.98</sub>O based polyaniline composite materials. <i>Australian Ceramic Society Journal</i> Accepted. (April 2018) (In</li> </ol>

	<p>Press)</p> <ol style="list-style-type: none"> <li>6. <b>M. Sohail</b>, M. Saleem, Sana Ullah, Noor Saeed, Ayesha Afridi, Majid Khan, M. Arif, Modified and Improved Hummer's Synthesis for Capacitors Application, <i>Modern Electronic Materials</i>, 110-116, 2017.</li> <li>7. M. Saleem Khan, <b>Mohammad Sohial</b>, Noor Saeed Khattak, Murtaza Sayed, Industrial Ceramic Waste in Pakistan, Valuable materials for Possible applications, <i>Journal of Cleaner Production</i>, 139, 1520-1528, <b>2016</b>.</li> <li>8. M. Saleem Khan, <b>Mohammad Sohial</b>, Noor Saeed Khattak, Ayesha Afridi, Synthesis and Characterization of Three-Phase Polymer-Graphene Oxide-Ceramic Composites, <i>Journal of the Chemical Society of Pakistan</i>, 38 (02) 234-240, <b>2016</b>.</li> <li>9. M. Saleem Khan, Inam Ullah, <b>Mohammad Sohial</b>, Noor Saeed Khattak, Conversion of Mixed Low-Density Polyethylene Wastes into Liquid Fuel by Novel CaO/SiO<sub>2</sub> Catalyst, <i>Journal of Polymer Environment</i>, 24 (3) 255-263, <b>2016</b>.</li> <li>10. M. Saleem Khan, Noor Saeed, M. Sohail, Synthesis and Characterization of Composites of Ceramic Nano-particles with Non-conducting Polymers for Dielectric Materials Production, <i>Journal of Materials Science: Materials in Electronics</i>, <b>Accepted, ID (#JMSE-D-16-01769R2)</b>,</li> <li>11. Salma Bilal, <b>Mohammad Sohail</b>, Anwar ul Haq Ali Shah, Synthesis and Characterization of Soluble and Thermally Stable Polypyrrole-DBSA Salts, <i>Journal of The Chemical Society of Pakistan</i>, 36 (06) 976-982, <b>2014</b>.</li> <li>12. M. Ilyas, Aziz Ahmad, Zahid Ali. <b>M. Sohail</b>, M. Arif, Zia Ullah, Investigation of the Acitivity of Sawdust as Bisorbent towards Cr(VI) remaoval from Waste Water, Kinetic and Thermodynamic Studies, <i>International</i></li> </ol>
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	<p><i>Research Journal of Environment Sciences, 3 (4) 5-12, 2014.</i></p> <p>13. <b>M. Sohail</b>, M. Saleem Khan, Noor Saeed, M. Arif, M. Irfan, M. Omer. Synthesis, structural, thermal and dielectric properties of graphene oxide based barium titanate composite films: Possible materials for embedded capacitors. <i>Materials Discovery</i> 10(2017) 29-36.</p> <p><b>1. Book Chapter</b>  <b>Advances in Water Purification Techniques.</b>  <b>Chapter # 6</b></p> <p><b>1. Patent: Submitted to IPO Karachi Pakistan</b></p>
<p><b>Research Grants and Contracts</b></p>	<p><b><u>Projects Aailed</u></b></p> <ol style="list-style-type: none"> <li>Beneficiary of SRGP (21-1705/SRGP/R&amp;D/HEC/2017) HEC grant, PKR. 0.5 million under the title “<i>Development of Embedded Capacitors based on Waste Ceramics/Polyaniline (PANI) macro composites for Batteries and Microwave Devices</i>”.</li> <li>Beneficiary of A joint project entitles to “Developing Environmental Friendly, Mg-Matrix Based Composite Technology for Present and Future Generations” worth Rs: 1 million awarded by Pakistan Science Foundation (PSF).</li> <li><b>LCF 2020 HEC Project shortlisted (As Co-PI)</b></li> </ol> <p><b><u>HEC Travel grant aailed</u></b></p> <ol style="list-style-type: none"> <li>Beneficiary of Travel grant HEC award letter NO: (283.17/TG/R&amp;D/HEC/2017/24758) for presenting a research paper entitled “<i>Novel Composites based on Waste Ceramics and</i></li> </ol>

	<p><i>Conducting Polymers: An Approach from Worse to Better</i>” at <b>Advanced Materials World Congress-2018</b> in Singapore (04-08 February 2018).</p> <p>5. Beneficiary of Travel Grant HEC awarded letter NO: <b>308.40/TG/R&amp;D/HEC/2018/29936</b> for presenting research paper entitled <i>“Industrial Ceramic Waste in Pakistan: Renewable natural Capital for pollution Control, Energy, and Green Environment”</i> at IAPE’19 at Oxford University UK (March 13-14, 2019)</p> <p><b><u>Project Submitted</u></b></p> <p>6. A project entitled <b>“High Efficiency Laboratory Scale Defensive Protocols against COVID-19 Infection”</b> has been submitted to HEC of Pakistan (underview).</p> <p>7. A project entitled <b>“Novel Composites Based on Waste Ceramics and Conducting Polymer: “An Approach from Worse to Better” worth Rs: 0.5 million</b>, has been submitted to Directorate of Science and Technology (DOST), Govt. Khyber Pakhtunkhwa. (Under review).</p> <p>8. A project entitled <b>“Quantification and Treatment of River Swat Polluted Water using Green Adsorbent”</b> has been submitted to <b>National Cleaner Production Center (NCPC) Islamabad.</b></p> <p>9. A project entitled <b>“Pollution Control in River Swat”</b> has been submitted to <b>Direct aid program, Australian High Commission Islamabad.</b></p>
<b>Selected Professional Presentations</b>	<p>1. Oral Presentation on Energy harvested materials at Oxford University UK, on 13-14 March, 2019.</p> <p>2. Oral presentation entitled <b>“Novel composites based on Waste ceramic and conducting polymers: An approach from worse to better”</b> <u>M. Sohail</u>, M. Saleem, M. Omer, Noor Saeed, in the <b>1<sup>st</sup> International Conference on Emerging Trends in Material Sciences</b> at Islamia College University Peshawar, <b>(27<sup>th</sup> February to 1<sup>st</sup> March 2018).</b></p> <p>3. Oral presentation entitled <b>“Novel composites</b></p>

	<p>based on Waste ceramic and conducting polymers: An approach from worse to better” <b>M. Sohail</b>, M.S.Khan, N. Saeed in the <b>Advanced Materials World Congress-2018</b>, Singapore, (Feb 04-08. 2018).</p> <ol style="list-style-type: none"> <li>4. Oral presentation entitled “<b>Dielectric and electrical properties of Graphene oxide based BaTiO<sub>3</sub> films for electro-responsive technological Applications</b>” <b>M. Sohail</b>, M.S.Khan, N. Saeed, M. Khan, M. Arif, S.U.Rahman in <b>ISAM-2017 (October 15-20 2017)</b> at NCP, QAU, Islamabad, Pakistan.</li> <li>5. Oral presentation entitled “<b>Mohammad Sohail, M. Saleem Khan, Assesment of different ceramic wastes and their potential for possible applications</b>” in SPI-2016 (19-20 October) at UET Peshawar Pakistan</li> <li>6. Presented an oral presentation entitled “<b>Mohamma Sohail, M. Saleem Khan, Synthesis, Structural, Thermal and Dielectric Properties of Graphene Oxide based Barium Titinate Composite Films</b>” in 13<sup>th</sup> International and 25<sup>th</sup> National Chemistry Conference <b>2015</b> at IslamiaUniversity Bahawalpur, Punjab, Pakistan.</li> <li>7. Presented an oral presentation entitled “<b>M.Sohail, M.Saleem Khan, Synthesis and Characterization of Triphase Polymer-Graphene Oxide-Ceramic Composites</b>” at ISS-2015, National Center for Physics QAU, Islamabad, Pakistan.</li> <li>8. Presented oral presentation entitled “<b>Mohamma Sohail, M. Saleem Khan, Synthesis and Properties of <math>Fe_{0.01}La_{0.01}Al_{0.5}Zn_{0.98}O</math> (FLAZPs) based PANI Nanocomposites</b>” in 12<sup>th</sup> International and 24<sup>th</sup> National Chemistry Conference <b>2014</b> at University of Punjab, Pakistan.</li> <li>9. Presented an oral presentation entitled “<b>Mohammad Sohail, Salma Bilal, Synthesis and characterization of Polypyrrole-DBSA salt composites</b>” in 2<sup>nd</sup> National Conference on Material Science at University of Peshawar, Peshawar, Pakistan (2011).</li> <li>10. Co-organized a conference entitled Advence</li> </ol>
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	<p>Separation Techniques in Analytical Chemistry. 2019, University of Swat.</p> <p><b>11.</b> Participated as Oral presenter at 44<sup>th</sup> International Nathiagali Summer College 2019. NCP, QAU, Islamabad</p> <p><b>12.</b> Participated in one day seminar on Writing a winning grant proposal and scholarship application, University of Swat, 2018.</p> <p><b>13. Organized and participated</b> a one day seminar on O-GlcNAcylation in cervical cancer Metastasis in Cell Death 2019, University of Swat.</p> <p><b>14. Participated</b> Ist National Conefernce on Advances in Physics 2017, University of Malakand.</p> <p><b>15. Attended</b> four day International Training on line learning and Teaching, 2018, NUML Islamabad.</p> <p><b>16. Poster presentation</b> in Chemical trends at LUMS Lahore, 2014.</p> <p><b>17. Participated in Two days</b> workshop on 1D and 2D NMR at HEJ University of Karachi 2012.</p>
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