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<b>Designation</b>		Assistant Professor		
<b>Department</b>		Biotechnology		
<b>Faculty</b>		Life Sciences & Informatics		
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<b>Qualification</b>				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2020	PhD	Department of Biotechnology, Faculty of Agro-Industry, Kasetsart University, Bangkok, Thailand	Biotechnology	
2012	MS/ Mphil	Department of Environmental Management & policy, Faculty of Management Sciences, BUITEMS, Quetta	Environmental Management & policy	
2008	Graduation	Department of Biotechnology, Faculty of Life Sciences and Informatics, BUITEMS, Quetta	Biotechnology and Informatics	
<b>Publications in HEC Recognized journals</b>				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	Comparison of marine and rushton impeller in high solid loading of two-step pretreated oil palm trunk using simultaneous saccharification and fermentation for ethanol production	<i>Results in Engineering</i>	International (IF: 5)	2023
2	Phenotypic analysis, molecular characterization and antibiogram of caries causing bacteria isolated from dental patients	<i>Microorganisms</i>	International (IF: 4.5)	2023
3	Growth and lipid production of <i>Ankistrodesmus</i> sp. IFRPD 1061 under mixotrophic culture condition: Effect of sodium acetate concentration and period addition in an open pond	<i>Energy Ecol. Environ</i>	International (IF: 4.4)	2023

4	$\beta$ -glucosidase production by recombinant <i>Pichia pastoris</i> strain Y1433 under optimal feed profiles of fed-batch cultivation	<i>Folia Microbiologica</i>	International (IF: 2.6)	2023
5	Screening of high lipid content and productivity of microalgae under photoautotrophic cultivation for biodiesel production	<i>Environ. Prog. Sustain. Energy</i>	International (IF: 2.8)	2023
6	Assessment of Heavy Metals in Milk Samples of Cattles and Buffalos from District Quetta	<i>Pakistan J. Zool.</i>	National (IF: 0.68)	2023
7	Ethanol Production through Optimized Alkaline Pretreated <i>Elaeis guineensis</i> Frond Waste from Krabi Province, Thailand	<i>Fermentation</i>	International (IF: 5.1)	2022
8	Evaluating the Diagnostic Accuracy of GeneXpert MTB/RIF Assay for the Diagnosis of Tuberculosis	<i>Pakistan J. Zool.</i>	National (IF: 0.68)	2022
9	Phytochemical effectiveness of some ethanomedicinal plants of Balochistan, Pakistan against urogenital infections	<i>Int. J. Agric. Technol.</i>	International (IF: 0.54)	2022
10	Development of low-cost medium for ethanol production by using glutamic acid mother liquor	<i>Bioresour. Technol. Rep.</i>	International (IF: 4.82)	2022
11	Kinetic study of ethanol production from different sizes of two-step pretreated oil palm trunk by fed-batch simultaneous saccharification and fermentation.	<i>Agr. Nat. Resour.</i>	International (IF: 1.6)	2022
12	Bioethanol production from oil palm trunk fibers using activated immobilized <i>saccharomyces cerevisiae</i> sc90 under simultaneous saccharification and fermentation.	<i>Bioenergy Res.</i>	International (IF: 4.4)	2022
13	A comprehensive approach to utilize hydrogen peroxide sterilization and urea as nitrogen source for ethanol production from oil palm trunk.	<i>Agr. Nat. Resour.</i>	International (IF: 1.6)	2022
14	Cellulase addition and pre-hydrolysis effect of high solid fed-batch simultaneous saccharification and ethanol fermentation from combined pretreated oil palm trunk.	<i>ACS Omega</i>	International (IF: 3.91)	2021
15	Utilization of urea as a nitrogen source for ethanol production	<i>Agr. Nat. Resour.</i>	International	2021

	from oil palm trunk using simultaneous saccharification and fermentation.		(IF: 1.6)	
16	Two-step pretreatment of oil palm trunk for ethanol production by thermotolerant <i>saccharomyces cerevisiae</i> SC90.	<i>Bioresour. Technol</i>	International (IF: 9.66)	2021
17	Conversion of steam exploded hydrolyzate of oil palm trunk to furfural by using sulfuric acid, solid acid, and base catalysts in one pot.	<i>Energy Sources A: Recovery Util. Environ. Eff.</i>	International (IF: 2.4)	2020
18	Investigation of alkaline hydrogen peroxide pretreatment to enhance enzymatic hydrolysis and phenolic compounds of oil palm trunk.	<i>3 Biotech</i>	International (IF: 2.47)	2020
19	Effect of calcium fortification on whole wheat flour based leavened and unleavened breads by utilizing food industrial wastes.	<i>Asian J. Chem.</i>	International (IF: 0.3)	2017
20	Effect of partially defatted sesame meal supplementation on chemical, rheological and sensory attributes of bread.	<i>Asian J. Chem.</i>	International (IF: 0.3)	2016
21	Functional lactic beverage supplemented with commercial lactic acid bacteria.	<i>Asian J. Chem.</i>	International (IF: 0.3)	2016
22	Phytohormones and plant responses to salinity stress: a review.	<i>Plant Growth Regul.</i>	International (IF: 2.76)	2015
23	Detection of heavy metals (Pb, Sb, Al, As) through atomic absorption spectroscopy from drinking water of District Pishin, Balochistan, Pakistan.	<i>Int. j. curr. microbiol.</i>	International	2014
24	Determination of heavy metals found in different sizes of tube wells of district pishin balochistan, Pakistan.	<i>Asian J. Inf. Technol.</i>	International	2013

#### **Paper Presented**

S. No	Title of Paper	Name of Conference	National/ International	Date
1	Bioactivity Screening of Selected Ethno medicinal Plants of Balochistan, Pakistan	7 <sup>th</sup> International Annual Research Symposium 2018 (I-KUSTARS)	International Kasetsart University	22-24 August, 2018
2	Alkaline Hydrogen Peroxide treatment of Oil Palm Trunk in Biorefinery Process	The 13 <sup>th</sup> Asian Congress on Biotechnology Bioinnovation and	International Khon Kaen, Thailand	23-27 July, 2017

			Bioeconomy	
3	Screening of high-lipid content microalgae for biodiesel production		Thai society of biotechnology and International Conference	International Mae Fah Lunag University, Chiang mai, Thailand 26-29 November, 2014
4	Influence of particle size of pretreatment oil plum trunk fibers from simultaneous saccharification and fermentation on ethanol production		Thai society of biotechnology and International Conference	International Mae Fah Lunag University, Chiang mai, Thailand 26-29 November, 2014
5	Determination of Arsenic and Chromium in Different Sizes of Tube Wells of District Pishin Balochistan, Pakistan		11 <sup>th</sup> International and 23 <sup>rd</sup> National Chemistry Conference	International KPK Pakistan 15-17, October 2012
6	In-vitro Photochemical Analysis of Some Ethno medicinal Plants of Balochistan, Pakistan		11 <sup>th</sup> International and 23 <sup>rd</sup> National Chemistry Conference	International KPK Pakistan 15-17, October 2012
<b>Books Authored/ Edited</b>				
S. No	Name of book		Publisher	ISBN
<b>Work Experience</b>				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	Jan 2016	Oct 2019	Kasetsart University, Bangkok, Thailand	Researcher
2	Dec 2012	Nov 2013	CPD ( Center for Peace and Development)	Lead Researcher/ Campaign Coordinator
3	Jan 2012	Nov 2012	CRD ( Center for Research and Development)	Program Officer
<b>Area of specialization</b>			<ul style="list-style-type: none"> <li>• Biofuels production</li> <li>• Valorization of biomass in biorefinery concept for value added products</li> <li>• Fermentation process</li> <li>• Lignin derivatives</li> <li>• Heavy metals detection</li> </ul>	
<b>Research Interest</b>			<ul style="list-style-type: none"> <li>• Biomass energy</li> <li>• Renewable sources of energy</li> <li>• Production of 3<sup>rd</sup> generation biofuel from algae</li> <li>• Biofilms for waste water treatment</li> </ul>	
<b>Future Research Plans</b>			Establishment of Fermentation Technology Research Centre in BUIITEMS	
<b>HEC Approved supervisor</b>			Yes	
<b>If Yes, provide HEC URL</b>			<a href="https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx">https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx</a> (Application ID: 90171)	
<b>Research grants/ Projects</b>				

**Additional Information****Research gate:**

<https://www.researchgate.net/profile/Afrasiab-Tareen-2>

**Google Scholar:**

[https://scholar.google.com.pk/citations?hl=en&user=6zRmDnkAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com.pk/citations?hl=en&user=6zRmDnkAAAAJ&view_op=list_works&sortby=pubdate)

**Scopus Preview:**

<https://www.scopus.com/authid/detail.uri?authorId=56462645000>