

Umer Khayyam

Associate Professor

School of Social Sciences & Humanities

Email: dr.umer@s3h.nust.edu.pk

Contact:

LinkedIn: <https://khayyamumer.wixsite.com/nust>



About

Dr. Umer Khayyam is working as Associate Professor in the School of Social Sciences & Humanities. Dr. Umer Khayyam has a PhD in Development Studies. Dr. Umer Khayyam has published 50 research articles & conference papers having a citation count of 387, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Development Studies Westfälische Wilhelms-Universität Münster , Germany	2012 - 2016
MPhil in Development Cooperation Fachhochschule Osnabrück , Germany	2010 - 2012
MSc in Development Studies COMSATS Institute of Information Technology , Pakistan	2006 - 2008
BSc in Electronics Hazara University , Pakistan	2004 - 2006

Experience

Associate Professor School of Social Sciences & Humanities	2024- Present
Associate Professor School of Social Sciences & Humanities	2022 - 2022
Assistant Professor School of Social Sciences & Humanities	2017 - 2022
Assistant Professor School of Social Sciences & Humanities	2016 - 2017
Teaching & Research Assistant University of Münster , Scharnhorststrasse 100 48151, Münster, Germany	2013 - 2016
Internee United Nations Convention to Combat Desertification , Platz der Vereinten Nationen 1 PO Box 260129 53113 Bonn, Germany	2011 - 2011
Assistant Coordinator Provincial Earthquake Reconstruction and Rehabilitation Authority (PEERA) , Abbottabad, Pakistan	2008 - 2009
Internee Mercy Corps , Mansehra, Pakistan	2006 - 2007

Awards

HEC Approved Supervisor	2021
Uni.Best Researcher Award	2021
DAAD-PPGG	2010

Research Projects

National Projects

Planning in Germany and Pakistan: Responding Challenges of Climate Change through Intercultural Dialogue Funding Agency: DAAD Amount: PKR 10,800,000.00 Status: Approved_inprocess	2022
Adaptation to Climate Change: Building Resistant Livelihood for the Vulnerable Communities of Hazara and Malakand Division of KPK, Pakistan Funding Agency: HEC Amount: PKR 3,700,000.00 Status: Completed	2017
The Pakistan Publishing and Mentoring Workshop – Tackling Climate Change Challenges in Pakistan Funding Agency: British Academy of Sciences Amount: PKR N/A Status: Completed	2020

International Projects

Gender, Intersectionality and Climate Change: From Scientific Evidence to Action Funding Agency: BMZ/GLZ-Deutsche Gesellschaft für Internationale Zusammenarbeit / German Development Agency, Germany Amount: PKR 22,042,138.00 Status: Approved_inprocess	2023
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Research Articles

Assessing the impact of socio-demographic factors on municipal water security in planned and unplanned urban centers of Pakistan <i>Kamran Umer Khayyam Fasiha Safdar Rahmatullah Wahdatyar Abdul Waheed Muhammad Fahim Khokhar Aqua Water Infrastructure, Ecosystems and Society, Volume:73, Issue:9</i> Impact Factor: 2.1 Quartile: 2 Citations: 1 DOI: https://doi.org/10.2166/aqua.2024.118	2024
Drivers of municipal water security and vulnerability in Pakistan: A case study of Mardan, Khyber Pakhtunkhwa <i>Kamran Junaid Aziz Khan Fasiha Safdar Umer Khayyam Iftikhar Hussain Adil Abdul Waheed Muhammad Fahim Khokhar Groundwater for Sustainable Development, Volume: 26, Article Number: 101229</i> Impact Factor: 4.9 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.gsd.2024.101239	2024
Prevalence of Cardiovascular Disease (CAD) due to industrial air pollutants in the proximity of Islamabad Industrial Estate (IEI), Pakistan <i>Umer Khayyam Muhammad Rayan Iftikhar Hussain Adil Plos One, Volume 19, Issue 7, Article Number e0300572</i> Impact Factor: 2.900 Quartile: 1 DOI: https://doi.org/10.1371/journal.pone.0300572	2024
Analyzing land use land cover (LULC) changes induced by the run-of river project and respondent survey: a case of Ghazi Barotha Hydropower Project on Indus River, Pakistan <i>Ehsan Inam Ullah Shakil Ahmad Muhammad Faheem Khokhar Umer Khayyam Muhammad Azmat Muhammad Arshad Faizan ur Rehman Kaiser Environmental Research Communications, Volume 6, Issue 3, Article Number 035002</i> Impact Factor: 2.500 Quartile: 3 Citations: 1 DOI: 10.1088/2515-7620/ad2bb5	2024
Exploring the nexus between land use land cover (LULC) changes and population growth in a planned city of islamabad and unplanned city of Rawalpindi, Pakistan <i>Kamran Junaid Aziz Khan Umer Khayyam Abdul Waheed Muhammad Fahim Khokhar Heliyon, Volume 9, Issue 2, Article Number e13297</i> Impact Factor: 3.776 Quartile: 2 Citations: 25 DOI: https://doi.org/10.1016/j.heliyon.2023.e13297	2023
Hydrological and ecological impacts of run off river scheme; a case study of Ghazi Barotha hydropower project on Indus River, Pakistan	2023

Impact Factor: 3.776 | **Quartile:** 2 | **Citations:** 7
DOI: <https://doi.org/10.1016/j.heliyon.2022.e12659>

Planning for Sustainable Green Urbanism: An Empirical Bottom-Up (Community-Led) Perspective on Green Infrastructure (GI) Indicators in Khyber Pakhtunkhwa (KP), Pakistan

2022

Muhammad Rayan Dietwald Gruehn Umer Khayyam

International Journal of Environmental Research and Public Health, Volume 19(19), Article Number 11844

Impact Factor: 4.614 | **Quartile:** 1 | **Citations:** 8
DOI: <https://doi.org/10.3390/ijerph191911844>

Impact of meteorological variations and preventive policy measures on the spread and mortality of COVID-19 in European countries

2022

Saira Tufail Shahzad Alvi Umer Khayyam

International Journal of Global Warming, Volume 28, No.1, Pages 1-23

Impact Factor: 0.972 | **Quartile:** 4
DOI: [10.1504/IJGW.2022.10050036](https://doi.org/10.1504/IJGW.2022.10050036)

Frameworks for Urban Green Infrastructure (UGI) Indicators: Expert and Community Outlook toward Green Climate-Resilient Cities in Pakistan

2022

Muhammad Rayan Dietwald Gruehn Umer Khayyam

Sustainability, Volume 14, Issue 13, Article Number 7966

Impact Factor: 3.889 | **Quartile:** 2 | **Citations:** 19
DOI: <https://doi.org/10.3390/su14137966>

Flood in mountainous communities of Pakistan: how does it shape the livelihood and economic status and government support?

2022

Umer Khayyam Ramsha Munir

Environmental Science and Pollution Research, Volume 29, Pages 40921-40940

Impact Factor: 5.8 | **Quartile:** 1 | **Citations:** 7
DOI: <https://doi.org/10.1007/s11356-022-18709-x>

Smog and cognitive issues in the school going children of Lahore and Islamabad, Pakistan

2022

Zara Naveed Umer Khayyam

International Journal of Environmental Science and Technology, Pages 1-16

Impact Factor: 2.860 | **Quartile:** 3 | **Citations:** 9
DOI: <https://doi.org/10.1007/s13762-022-04264-y>

Artisanal Small-Scale Mining for sustainable livelihood in Gilgit-Baltistan, Pakistan

2021

Sobia Shah Umer Khayyam Muhammad Zubair Mumtaz

Resources Policy, 74, 102420

Impact Factor: 5.634 | **Quartile:** 1 | **Citations:** 5
DOI: <https://doi.org/10.1016/j.resourpol.2021.102420>

Industrial air pollution and self-reported respiratory and irritant health effects on adjacent residents: a case study of Islamabad Industrial Estate (IEI)

2021

Rida Bano Umer Khayyam

Air Quality Atmosphere and Health, Volume 14, Pages 1709–1722

Impact Factor: 3.763 | **Quartile:** 2 | **Citations:** 8
DOI: <https://doi.org/10.1007/s11869-021-01051-5>

Green infrastructure indicators to plan resilient urban settlements in Pakistan: Local stakeholder's perspective

2021

Muhammad Rayan Dietwald Gruehn Umer Khayyam

Urban Climate, Volume 38, Article Number 100899

Impact Factor: 6.663 | **Quartile:** 1 | **Citations:** 30
DOI: <https://doi.org/10.1016/j.uclim.2021.100899>

Perceptions of Glacier Grafting: An Indigenous Technique of Water Conservation for Food Security in Gilgit-Baltistan, Pakistan

2021

Ramsha Munir Umer Khayyam Iftikhar Hussain Adil

Sustainability, Volume 13(9), Article Number 5208

Impact Factor: 3.889 | **Quartile:** 2 | **Citations:** 6
DOI: <https://doi.org/10.3390/su13095208>

<p>Towards Climate Change Mitigation and Adaptation: Risk Perception and Motivation of University Students of Islamabad, Pakistan</p> <p><i>Umer Khayyam Shahzad Alvi Rida Bano</i> <i>Comparative Sociology</i> , Volume 20(1), Pages 138-158</p> <p>Impact Factor: 0 Citations: 4 DOI: https://doi.org/10.1163/15691330-BJA10028</p>	2021
<p>Energy production and CO2 emissions: The case of coal fired power plants under China Pakistan economic corridor</p> <p><i>Qurat ul Ain Ali Umer Khayyam Umair Nazar</i> <i>Journal of Cleaner Production</i> , Volume 281, Article Number 124974</p> <p>Impact Factor: 11.072 Quartile: 1 Citations: 60 DOI: https://doi.org/10.1016/j.jclepro.2020.124974</p>	2021
<p>How does one motivate climate mitigation? Examining energy conservation, climate change, and personal perceptions in Bangladesh and Pakistan</p> <p><i>Shahzad Alvi Shahzada M. Naeem Nawaz Umer Khayyam</i> <i>Energy Research & Social Science</i> , Volume 70, Article Number 101645</p> <p>Impact Factor: 6.834 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1016/j.erss.2020.101645</p>	2020
<p>Ecological corridors? The case of China-Pakistan economic corridor</p> <p><i>Ramsha Munir Umer Khayyam</i> <i>Geoforum</i> , Volume 117, Pages 281-284</p> <p>Impact Factor: 3.901 Quartile: 2 Citations: 16 DOI: https://doi.org/10.1016/j.geoforum.2020.06.023</p>	2020
<p>Mitigating and adapting to climate change: attitudinal and behavioural challenges in South Asia</p> <p><i>Umer Khayyam Shahzad Alvi</i> <i>International Journal of Climate Change Strategies and Management</i> , Volume 12 No. 4, Pages 477-493</p> <p>Impact Factor: 2.645 Quartile: 3 Citations: 15 DOI: http://dx.doi.org/10.1108/IJCCSM-08-2019-0054</p>	2020
<p>Floods: impacts on livelihood, economic status and poverty in the north-west region of Pakistan</p> <p><i>Umer Khayyam</i> <i>Natural Hazards</i> , Volume 102(3), Pages 1033-1056</p> <p>Impact Factor: 3.102 Quartile: 2 Citations: 14 DOI: doi.org/10.1007/s11069-020-03944-7</p>	2020
<p>Assessing the Adverse Effects of Flooding for the Livelihood of Poor's and the Level of External Response: A case study of Hazara Division, Pakistan</p> <p><i>Shabana Noureen Umer Khayyam</i> <i>Environmental Science and Pollution Research</i> , Volume 27, Pages 19638-19649</p> <p>Impact Factor: 4.223 Quartile: 2 Citations: 22 DOI: 10.1007/s11356-020-08303-4</p>	2020
<p>China-Pakistan Economic Corridor and the Impacts of Coal-based Energy Projects on Tropospheric Ozone in Pakistan</p> <p><i>Ramsha Munir Umer Khayyam</i> <i>Polish Journal of Environmental Studies</i> , Volume 29, No. 5, Pages 3729-3747</p> <p>Impact Factor: 1.699 Quartile: 4 Citations: 11 DOI: 10.15244/pjoes/112895</p>	2020
<p>Empirical study on influencing factors of biogas technology adoption in Khyber Pakhtunkhwa, Pakistan</p> <p><i>Syed Muhammad Amir Liu Yonggong Ashfaq Ahmad Shah Dr. Umer Khayyam Zafar Mahmood</i> <i>Energy and Environment</i> , Volume: 31, Issue: 2, Pages 308-329</p> <p>Impact Factor: 2.945 Quartile: 3 Citations: 26 DOI: https://doi.org/10.1177/0958305X19865536</p>	2020
<p>Effects of Increasing Soil Fluoride on the Growth of Vegetation in the Vicinity of Brick Kilns: A Case Study from Rawalpindi, Pakistan</p> <p><i>Rida Bano Umer Khayyam Sofia Khalid</i> <i>Polish Journal of Environmental Studies</i> , Volume 29, No.02, Pages1535-1544</p> <p>Impact Factor: 1.699 Quartile: 4 Citations: 8</p>	2020

DOI: 10.15244/pjoes/101610	
Livelihood Expansion and Local People's Expectations in the Realm of China-Pakistan Economic Corridor in Hunza, Gilgit Baltistan, Pakistan <i>Tehzeeb Bano Arif Alam Umer Khayyam</i> <i>European Journal of Sustainable Development</i> , Volume 8, Issue 3, Pages 543-560 Impact Factor: 0 DOI: 10.14207/ejsd.2019.v8n3p543	2019
Female Political Power and the complexity of Social Barriers in Pakistan <i>Umer Khyyam Fariha Tahir</i> <i>NUST Journal Of Social Sciences</i> , Volume 5, Number 2, Page 153-175 Impact Factor: N/A DOI: http://www.nust.edu.pk/INSTITUTIONS/Schools/S3H/NJSSH/Pages/Download_Details.aspx?DocID=22&category=NJSSH%20Vol.%204%20No.1%20(January%20-%20July%202018%20)	2019
Loss of Vegetative Cover and Increased Land Surface Temperature: A Case Study of Islamabad, Pakistan <i>Sara Waseem Umer Khayyam</i> <i>Journal of Cleaner Production</i> , Volume 234 Impact Factor: 7.246 Quartile: 1 Citations: 46 DOI: https://doi.org/10.1016/j.jclepro.2019.06.228	2019
Socio-Cultural Dynamics and Their Relation With The Participatory Development in The Pashtun Tribal Society of Pakistan <i>Umer Khayyam Ehsan Inamullah Syed Shah</i> <i>TRAMES-Journal of the Humanities and Social Sciences</i> , Volume: 22, Issue: 2, Pages: 173-184, Published: 2018 Impact Factor: 0.109 Quartile: 4 Citations: 11 DOI: 10.3176/tr.2018.2.05	2018
Pakistan's Counter-Terrorism Narrative and Non-Traditional (Holistic) Security Paradigm with Civic Engagement <i>Umer Khayyam Fariha Tahir Syed Shah Fariha Tahir</i> <i>NUST Journal of Social Sciences and Humanities</i> , Vol. 4 No.1 (January-June 2018) pp. 39-60 Impact Factor: 0 DOI: http://www.nust.edu.pk/INSTITUTIONS/Schools/S3H/NJSSH/Documents/Pakistan%E2%80%99s%20Counter-Terrorism%20Narrative%20and%20Non-Traditional%20(Holistic)%20Security%20Paradigm%20with%20Civic%20Engagement.pdf	2018
China-Pakistan Economic Corridor and Apparent Socio-Cultural Transformations in Hunza Valley, Gilgit Baltistan Pakistan <i>Tehzeeb Bano Umer Khayyam</i> <i>Transylvanian Review</i> , Vol XXVI, No. 26, 2018 Impact Factor: N/A DOI: http://transylvanianreviewjournal.org/index.php/TR/article/view/2688	2018
Assessing Elite Capture and Its Linkage with the Resource Hijack: Empirical Evidences from FATA, Pakistan. <i>Umer Khayyam Ehsan Inamullah Syed Shah</i> <i>Transylvanian Review</i> , Vol XXV, Issue No. 14 Impact Factor: N/A DOI: http://transylvanianreviewjournal.org/index.php/TR/article/view/581	2017
Evaluating Drinking Water Contamination in Post Disaster Scenario and its Effects on Human Health: A Case Study of District Mansehra, Pakistan <i>Umer Khayyam Ehsan Inamullah</i> <i>Transylvanian Review</i> , - Impact Factor: 0.045 Quartile: 4 DOI: http://transylvanianreviewjournal.org/index.php/TR/article/view/663	2016
Public-Private Nexus for the Educational Development of Central-Tribal Region of Pakistan <i>Umer Khayyam Herbert Edling</i> <i>Journal of Public Administration and Governance</i> , Vol. 6, Issue no. 1 Impact Factor: 0 DOI: 10.5296/jpag.v6i1.8951	2016

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Asian Journal of Social Sciences & Humanities, Volume 5, Issue no 1

Impact Factor: -

DOI: [http://www.ajssh.leena-luna.co.jp/AJSSHPDFs/Vol.5\(1\)/AJSSH2016\(5.1-18\).pdf](http://www.ajssh.leena-luna.co.jp/AJSSHPDFs/Vol.5(1)/AJSSH2016(5.1-18).pdf)

Impact of Ghazi Barotha Hydropower Project on Land use/ Land Cover along Indus River <i>Ehsan Inam Ullah Dr. Muhammad Fahim Khokhar Dr. Shakil Ahmad Dr. Umer Khayyam</i> <i>Remote Sensing, GIS and Climate Change (Applications, Strategies, Solutions & Education)</i> , res.country(177,) Citations: N/A DOI: Nil	2023
Community perspective on green infrastructure planning: A strategy for green urban resilient future in the north-west region, Pakistan. <i>Muhammad Rayan Dietwald Gruehn Dr. Umer Khayyam</i> <i>6th Dortmund Conference on Spatial and Planning Research</i> , res.country(57,) Citations: N/A DOI: Nil	2023
Experts and Community's Perspective to Build Sustainable Urban Cities in Pakistan. <i>Dietwald Gruehn Muhammad Rayan Dr. Umer Khayyam</i> <i>10th International Conference On Sustainable Development</i> , res.country(109,) Citations: N/A DOI: https://ecsdev.org/conference/10th-icsd-2022	2022
Local Perspectives on Green Resilient Settlements in Pakistan <i>Muhammad Rayan Dr. Umer Khayyam Dietwald Gruehn</i> <i>6th International Conference on Geotechnics, Civil Engineering and Structures, CIGOS 2021</i> , res.country(241,) Citations: N/A	2021
Industrial Air Pollution and Human-Health Degradation <i>Dr. Umer Khayyam Iman Tariq</i> <i>9th Annual International Conference on Sustainable Development (ICSD)</i> , res.country(233,) Citations: N/A DOI: https://ic-sd.org/	2021
Climate Hazards and Societal Vulnerability, Resilience and Adaptation in the Flood Zones of Nsanje District, Malawi. <i>Maurce Chafulumira Umer Khayyam</i> <i>1st International Conference on Business, Management and Social Sciences (ICBMASS)</i> , res.country(177,) Citations: N/A DOI: https://nbs.nust.edu.pk/news/1st-international-conference-on-business-management-and-social-sciences-icbmass/	2021
Glacier Grafting: A community based adaptation to climate induced food insecurity in Gilgit-Baltistan, Pakistan <i>Tehzeeb Bano Umer Khayyam</i> <i>2020 International Conference on Sustainable Development (ICSD)</i> , res.country(233,) Citations: N/A DOI: 0	2020
Post-Development Theory and the Question of Societal Matrix in the Rural Development Debate <i>Umer Khayyam Syed Muhammad Amir</i> <i>National Conference on Qualitative Psychology</i> , res.country(177,) Citations: N/A DOI: NA	2020
Green Infrastructure Planning: A Strategy to Safeguard Urban Settlements in Pakistan <i>Muhammad Rayan Ing. Dietwald Gruehn Umer Khayyam</i> <i>Dortmund Conference on Spatial and Planning Research</i> , res.country(57,) Citations: N/A DOI: 0	2020
Crossroads Kashmir & Karabakh: Post-Independence Territorial and Ethnic Conflicts in the Asian Continent <i>Umer Khayyam</i> <i>Ethnic Conflicts</i> , res.country(224,) Citations: N/A DOI: N/A	2014

Book Chapters

- Glacier Grafting in Gilgit Baltistan and Positive Impacts on the Community** 2023
Alia Arshad Muhammad Osama Malik Dr. Umer Khayyam
In: *Planning in Germany and Pakistan - Responding to Challenges of Climate Change through Intercultural Dialogue*, Chapter 2, Pages:27-42
Citations: N/A
DOI: <https://www.lehmanns.de/shop/technik/68383057-9783967291995-planning-in-germany-and-pakistan-responding-to-challenges-of-climate-change-through-intercultural->
- Environmental Degradation and Global Warming** 2022
Umer Khayyam Iman Tariq
In: *Book on The Palgrave Handbook of Global Social Problems*, Pages 1-26
Citations: N/A
DOI: https://doi.org/10.1007/978-3-030-68127-2_80-1
- Green Infrastructure Planning: A Strategy to Safeguard Urban Settlements in Pakistan** 2021
Muhammad Rayan Dietwald Gruehn Muhammad Rayan Dietwald Gruehn Umer Khayyam
In: *Book on Planning in Germany and Iran - Responding to Challenges of Climate Change through Intercultural Dialogue*, Chapter 11, Pages 197-221
Citations: N/A
DOI: <https://www.lehmanns.de/shop/technik/57006010-9783967290950-planning-in-germany-and-iran-responding-to-challenges-of-climate-change-through-intercultural-dialogue>
- Tropospheric ozone concentration over Pakistan** 2021
Ramsha Munir Umer Khayyam
In: *Book on Asian Atmospheric Pollution: Sources, Characteristics and Impacts*, Chapter 19, Pages 349-365
Citations: 2
DOI: <https://doi.org/10.1016/B978-0-12-816693-2.00005-6>
- Carbon emission as a result of forest land change in Islamabad, Pakistan** 2021
Umer Khayyam Sara Waseem
In: *Book on Climate Change Science: Causes, Effects, and Solutions for Global Warming*, Chapter 3, Pages 41-57
Citations: 4
DOI: <http://dx.doi.org/10.1016/B978-0-12-823767-0.00003-3>

Editorial Activities

- Natural Hazards** 2024
Reviewed Papers for Journals
Impact Factor: 3.3
- Journal of Cleaner Production** 2024
Reviewed Papers for Journals
Impact Factor: 9.7
- Case Studies in Chemical and Environmental Engineering** 2024
Reviewed Papers for Journals
Impact Factor: N/A
- Planning in Germany and Pakistan - Responding to Challenges of Climate Change through Intercultural Dialogue** 2023
Edited Journal Issue / Proceeding / Book
Impact Factor: 0.00
- Energy sources. Economics, planning, and policy** 2023
Reviewed Papers for Journals
Impact Factor: 3.4
- Scientific Reports** 2023
Reviewed Papers for Journals
Impact Factor: 4.4
- Hydrology research** 2023
Reviewed Papers for Journals
Impact Factor: 2.5
- Heliyon** 2023
Reviewed Papers for Journals

Impact Factor: 3.9	
Sustainability	2022
Reviewed Papers for Journals	
Impact Factor: 3.889	
Nature Human Behaviour	2022
Reviewed Papers for Journals	
Impact Factor: 24.25	
Technology in Society	2022
Reviewed Papers for Journals	
Impact Factor: 6.879	
Natural Hazards	2022
Reviewed Papers for Journals	
Impact Factor: 3.158	
Economic Change and Restructuring	2022
Reviewed Papers for Journals	
Impact Factor: 1.708	
	2022
Reviewed Papers for Journals	
Impact Factor: 2.472	
IGI Global	2022
Reviewed Papers for Journals	
Impact Factor: N/A	
Urban Climate	2021
Reviewed Papers for Journals	
Impact Factor: 6.663	
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Reviewed Papers for Journals	
Impact Factor: 3.102	
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Impact Factor: 4.192	
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Reviewed Papers for Journals Impact Factor: 0.675	2020
Reviewed Papers for Journals Impact Factor: 0	2020
Reviewed Papers for Journals Impact Factor: 4.098	2020
Reviewed Papers for Journals Impact Factor: 0.899	2019
Reviewed Papers for Journals Impact Factor: -	2019
Reviewed Papers for Journals Impact Factor: -	2019
Reviewed Papers for Journals Impact Factor: 2.914	2019
Reviewed Papers for Journals Impact Factor: -	2019
Reviewed Papers for Journals Impact Factor: -	2019
Reviewed Papers for Journals Impact Factor: 0.675	2018
Reviewed Papers for Journals Impact Factor: 0.675	2018