# Mehdi Hussain

## Associate Professor

School of Electrical Engineering and Computer Science

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**Contact:** 0622874365
**LinkedIn:**

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## About

Dr. Mehdi Hussain is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Mehdi Hussain has a PhD in Steganography. Dr. Mehdi Hussain has published 40 research articles & conference papers having a citation count of 897, carried out 8 projects and filed 0 intellectual property.

## Qualifications

**PhD in Steganography**                                                              2014 - 2017
  Universiti Malaya , Malaysia

**MS in Steganography**                                                               2008 - 2011
  Shaheed Zulifkar Ali Bhutto Institute of Science and Technology , Pakistan

**BS in Computer Science**                                                            2001 - 2006
  Islamia University of Bahawalpur , Pakistan

## Experience

**Associate Professor**                                                               2024- Present
  School of Electrical Engineering and Computer Science

**Assistant Professor**                                                               2021 - 2024
  School of Electrical Engineering and Computer Science

**Assistant Professor**                                                               2018 - 2021
  School of Electrical Engineering and Computer Science

**Assistant Professor**                                                               2018 - 2018
  School of Electrical Engineering and Computer Science

**Principal Software Engineer**                                                       2006 - 2014
  Streaming Networks Pvt. , House # 81, Street 45, F-10/4 Islamabad

## Awards

**FDP**

## Research Projects

### National Projects

**Automatic Classification of Instance of Ship Type using Acoustic Data**
2024
  **Funding Agency:** NESCOM
  **Amount:** PKR 250,000.00
  **Status:** Approved_inprocess

**AI-based Type Detection of Design for Crypto S-Boxes**
2024
  **Funding Agency:** NESCOM
  **Amount:** PKR 200,000.00
  **Status:** Approved_inprocess

**Quantum Implementation of Lightweight Ciphers**
2024
  **Funding Agency:** NESCOM
  **Amount:** PKR 300,000.00
  **Status:** Approved_inprocess

**Automatic Classification of Marine Vessels using Acoustic Data**
2023
  **Funding Agency:** NESCOM
  **Amount:** PKR 250,000.00
  **Status:** Approved_inprocess

**Active Analysis of Encrypted Traffic Flows for Application Fingerprinting**
2023
  **Funding Agency:** NCCS
  **Amount:** PKR 100,000.00
  **Status:** Approved_inprocess

**Detection of Ransomware-like Data Manipulation in Android Applications**
2023
  **Funding Agency:** NCCS
  **Amount:** PKR 100,000.00
  **Status:** Approved_inprocess

### International Projects

## Industry Projects

### National Projects

**Industrial Funding by Walee Tech Phase-3**
2024
  **Client:** Walee Technologies Pvt Ltd
  **Amount:** PKR 10,000,000.00
  **Status:** Approved_inprocess

**Walee-NUST Center of Excellence for Advanced Social and Digital Media Technologies**
2022
  **Client:** Walee Technologies Pvt Ltd
  **Amount:** PKR 10,000,000.00
  **Status:** Completed

### International Projects

## Research Articles

**Enhancing Ransomware Detection with Machine Learning Techniques and Effective API Integration**
2025
*Asad Iqbal Mehdi Hussain Qaiser Riaz Madiha Khalid RAFIA MUMTAZ Ki-Hyun Jung*
*Computers, Materials & Continua* , Pages 1-22
**Impact Factor:** 1.700 | **Quartile:** 3
**DOI:** https://doi.org/10.32604/cmc.2025.064260

**Lightweight and Robust Android Ransomware Detection Using Behavioral Analysis and Feature Reduction**
2025
*Mehdi Hussain Qaiser Riaz Sana Qadir Naveed Riaz Muhammad Sibtain Ki-Hyun Jung*
*Computers, Materials & Continua* , Pages 1-23
**Impact Factor:** 1.700 | **Quartile:** 3
**DOI:** https://doi.org/10.32604/cmc.2025.066198

**Towards Effective Parkinson's Monitoring: Movement Disorder Detection and Symptom Identification Using Wearable Inertial Sensors**

2025

*Umar Khan Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger*

*Algorithms* , Volume 18(4), Article Number 203

**Impact Factor:** 1.800 | **Quartile:** 2

**DOI:** https://doi.org/10.3390/a18040203

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**Intelligent parameter-based in-network IDS for IoT using UNSW-NB15 and BoT-IoT datasets**

2025

*Muhammad Luqman Qaiser Riaz Mehdi Hussain Hasan Tahir Muhammad Zeeshan Noman Mazhar Muhammad Saffeer Khan*

*Journal of the Franklin Institute* , Volume 362, Issue 1, Article Number 107440

**Impact Factor:** 3.700 | **Quartile:** 1 | **Citations:** 4

**DOI:** https://doi.org/10.1016/j.jfranklin.2024.107440

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**Performance-Oriented and Sustainability-Oriented Design of an Effective Android Malware Detector**

2024

*Sana Qadir Amna Naeem Mehdi Hussain Huma Ghafoor AISHA HASSAN ABDALLA HASHIM*

*IEEE Access* , Volume: 12, Page(s):159036-159055

**Impact Factor:** 3.4 | **Quartile:** 2 | **Citations:** 1

**DOI:** 10.1109/ACCESS.2024.3486094

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**Generisch-Net: A Generic Deep Model for Analyzing Human Motion with Wearable Sensors in the Internet of Health Things**

2024

*Kiran Hamza Qaiser Riaz Hamza Ali Imran Mehdi Hussain Björn Krüger*

*MDPI Sensors* , Volume 24(19), Article Number 6167

**Impact Factor:** 3.400 | **Quartile:** 2 | **Citations:** 1

**DOI:** https://doi.org/10.3390/s24196167

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**Forensic analysis of web browsers lifecycle: A case study**

2024

*Ahmed Raza Mehdi Hussain Hasan Tahir Muhammad Zeeshan Muhammad Adil Raja Ki-Hyun Jung*

*Journal of Information Security and Applications*, Volume 85 , Article Number 103839

**Impact Factor:** 3.800 | **Quartile:** 2 | **Citations:** 3

**DOI:** https://doi.org/10.1016/j.jisa.2024.103839

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**Unveiling Fall Origins: Leveraging Wearable Sensors to Detect Pre-Impact Fall Causes**

2024

*Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger Samia Kiran*

*IEEE Sensors Journal* , Volume: 24, Issue: 15, Pages:24086-24095

**Impact Factor:** 4.300 | **Quartile:** 1 | **Citations:** 7

**DOI:** 10.1109/JSEN.2024.3407835

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**Smart-Wearable Sensors and CNN-BiGRU Model: A Powerful Combination for Human Activity Recognition**

2023

*Hamza Ali Imran Qaiser Riaz Mehdi Hussain Hasan Tahir Razi Arshad*

*IEEE Sensors Journal* , Volume: 24, Issue: 2, 15 January 2024

**Impact Factor:** 4.3 | **Quartile:** 1 | **Citations:** 12

**DOI:** 10.1109/JSEN.2023.3338264

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**Hiding EPR and watermark in medical images using repeated pixel differencing**

2023

*Hira Aftab Mehdi Hussain Qaiser Riaz Muhammad Zeeshan Ki-Hyun Jung*

*Multimedia Tools and Applications* , Pages 1-29

**Impact Factor:** 3.6 | **Quartile:** 2 | **Citations:** 1

**DOI:** 10.1007/s11042-023-15434-6

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**Machines Perceive Emotions: Identifying Affective States from Human Gait Using On-Body Smart Devices**

2023

*Hamza Ali Imran Qaiser Riaz Muhammad Zeeshan Mehdi Hussain Razi Arshad*

*Applied Sciences* , Volume 13, Issue 8, 4828

**Impact Factor:** 2.7 | **Quartile:** 2 | **Citations:** 4

**DOI:** 10.3390/app13084728

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**A portable hardware security module and cryptographic key generator**

2022

*Hasan Tahir Malik Hamza Murtaza Shahzaib Tahir Zahoor Ahmed Alizai Qaiser Riaz Mehdi Hussain*

*Journal of Information Security and Applications* , Volume 70, Article Number 103332

**Impact Factor:** 4.960 | **Quartile:** 2 | **Citations:** 9

**DOI:** https://doi.org/10.1016/j.jisa.2022.103332

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**Permissions-Based Detection of Android Malware Using Machine Learning**

2022

*Fahad Akbar Mehdi Hussain Rafia Mumtaz Qaiser Riaz Ainuddin Wahid Abdul Wahab Ki-Hyun Jung*

*Symmetry* , Volume 14(4), Article Number 718

**Impact Factor:** 2.7 | **Quartile:** 2 | **Citations:** 32
**DOI:** https://doi.org/10.3390/sym14040718

## A Forensic Analysis of Video Streaming Activities on Android Applications

*Adil Ahmad Mehdi Hussain*

*Mobile and Forensics* , Volume 4, No.1, Pages 44-52

**Impact Factor:** 0
**DOI:** https://doi.org/10.12928/mf.v4i1.5762

## Forensic Analysis of Tor Browser on Windows 10 and Android 10 Operating Systems

*Muhammad Raheel Arshad Mehdi Hussain Hasan Tahir Sana Qadir Faraz Iqbal Ahmed Memon Yousra Javed*

*IEEE Access* , Volume 9, Pages 141273-141294

**Impact Factor:** 3.367 | **Quartile:** 2 | **Citations:** 17
**DOI:** 10.1109/ACCESS.2021.3119724

## Encrypted Network Traffic Analysis of Secure Instant Messaging Application: A Case Study of Signal Messenger App

*Mehdi Hussain Asmara Afzal Shahzad Saleem M. Khuram Shahzad Anthony T.S.HO Ki-Hyun Jung*

*Applied Sciences* , Volume 11, Issue 17, Article Number 7789

**Impact Factor:** 2.838 | **Quartile:** 2 | **Citations:** 19
**DOI:** https://doi.org/10.3390/app11177789

## PUF-Based Key Generation Scheme for Secure Group Communication Using MEMS

*Mubarak Mehdi Muhammad Taha Ajani Hasan Tahir Shahzaib Tahir Zahoor Alizai Fawad Khan Qaiser Riaz Mehdi Hussain*

*Electronics* , Volume 10(14), Article Number 1691

**Impact Factor:** 2.690 | **Quartile:** 3 | **Citations:** 11
**DOI:** https://doi.org/10.3390/electronics10141691

## Enhanced adaptive data hiding method using LSB and pixel value differencing

*Mehdi Hussain Qaiser Riaz Ki-Hyun Jung Shahzad Saleem Abdul Ghafoor*

*Multimedia Tools and Applications* , Pages 1-21

**Impact Factor:** 2.577 | **Quartile:** 2 | **Citations:** 32
**DOI:** https://doi.org/10.1007/s11042-021-10652-2

## GAFOR: Genetic Algorithm Based Fuzzy Optimized Re-Clustering in Wireless Sensor Networks

*Muhammad Khuram Shahzad S. M. Riazul Islam Mahmud Hossain Mohammad Abdullah-Al-Wadud Atif Alamri Mehdi Hussain*

*Mathematics* , Volume 9(1), Article Number 43

**Impact Factor:** 2.258 | **Quartile:** 1 | **Citations:** 22
**DOI:** https://doi.org/10.3390/math9010043

## Real-Time Automated Contour Based Motion Tracking Using a Single-Camera for Upper Limb Angular Motion Measurement

*Alireza Akhavizadegan Mohd Yamani Idna Idris Zaidi Bin Razak Mazlina Binti Mazlan Norhamizan Binti Hamzah Ainuddin Wahid Abdul Wahab Mehdi Hussain*

*Malaysian Journal of Computer Science* , Volume 33(1), Pages 52-77

**Impact Factor:** 0.622 | **Quartile:** 4
**DOI:** 10.22452/mjcs.vol33no1.4

## What Lies Beneath One's Feet? Terrain Classification Using Inertial Data of Human Walk

*Muhammad Zeeshan Ul Hasnain Hashmi [OrcID] Qaiser Riaz Mehdi Hussain Muhammad Shahzad*

*Applied Sciences* , Vol. 9 Issue 15, p3099-3099

**Impact Factor:** 2.474 | **Quartile:** 2 | **Citations:** 27
**DOI:** 10.3390/app9153099

## High-Capacity Image Steganography with Minimum Modified Bits Based on Data Mapping and LSB Substitution

*Abdul Alif Zakaria Mehdi Hussain Ainuddin Wahid Abdul Wahab Mohd Yamani Idna Idris Norli Anida Abdullah Ki-Hyun Jung*

*Applied Sciences* , NULL

**Impact Factor:** 2.217 | **Quartile:** 3 | **Citations:** 54
**DOI:** 10.3390/app8112199

## Image Steganography in Spatial Domain: A Survey

*Mehdi Hussain Ainuddin Wahid Abdul Wahab Yamani Idna Bin Idris Anthony TS Ho Ki-Hyun Jung*

*Signal Processing: Image Communication*, Volume 65, Pages 46-66

**Impact Factor:** 2.814 | **Quartile:** 2 | **Citations:** 399
**DOI:** 10.1016/j.image.2018.03.012

**Recursive Information Hiding Scheme Through LSB, PVD Shift, and MPE**                                                                                           2018

*Ainuddin Wahid Abdul Wahab Noman Javed Ki-Hyun Jung Mehdi Hussain*

*IETE Technical Review*, Volume 35, Issue 1, Pages: 53-63

**Impact Factor:** 1.6179999999999999 | **Quartile:** 3 | **Citations:** 41
**DOI:** 10.1080/02564602.2016.1244496

**A data hiding scheme using parity-bit pixel value differencing and improved rightmost digit**                                                                   2017
**replacement**

*Mehdi Hussain Ainuddin Wahid Abdul Wahab Anthony T.S. Ho Noman Javed Ki-Hyun Jung*

*Signal Processing: Image Communication*, Volume: 50 Pages: 44-57

**Impact Factor:** 2.073 | **Quartile:** 2 | **Citations:** 106
**DOI:** 10.1016/j.image.2016.10.005

**Hybrid Data Hiding Scheme Using Right-Most Digit Replacement and Adaptive Least Significant Bit for**                                                            2016
**Digital Images**

*Mehdi Hussain Ainuddin Wahid Abdul Wahab Noman Javed Ki-Hyun Jung*

*Symmetry* , Volume 8, Issue 6, Article number 41

**Impact Factor:** 1.457 | **Quartile:** 2 | **Citations:** 42
**DOI:** 10.3390/sym8060041

**Evaluating Performance of Intrusion Detection System using Support Vector Machines: Review**                                                                    2015

*Leila Mohammadpour Alihossein Aryanfar Vahid Maleki Raee Fahad Sattar Mehdi Hussain*

*International Journal of Security and its Applications*, Volume 9, Issue 9, Pages 225-234

**Impact Factor:** 0 | **Citations:** 5
**DOI:** 10.14257/ijsia.2015.9.9.20

**Challenges and Issues in DATA Stream: A Review**                                                                                                                2015

*Muhammad Arif Khubaib Amjad Alam Mehdi Hussain*

*International Journal of Hybrid Information Technology*, Volume 8, No.3, Pages 155-164

**Impact Factor:** -
**DOI:** 10.14257/ijhit.2015.8.3.15

**Crime Mining: A Comprehensive Survey**                                                                                                                          2015

*Muhammad Arif Khubaib Amjad Alam Mehdi Hussain*

*International Journal of u- and e- Service, Science and Technology*, Volume 8, No.2, Pages 357-364

**Impact Factor:** -
**DOI:** http://dx.doi.org/10.14257/ijunesst.2015.8.2.34

**Secure Password Transmission for Web Applications over Internet using Cryptography and Image**                                                                  2015
**Steganography**

*Mehdi Hussain Ainuddin Wahid Abdul Wahab Ishrat Batool Muhammad Arif*

*International Journal of Security and Its Applications*, Volume 9, No.2, Pages 179-188

**Impact Factor:** - | **Citations:** 8
**DOI:** 10.14257/ijsia.2015.9.2.17

**Application of Data Mining Using Artificial Neural Network: Survey**                                                                                            2015

*Muhammad Arif Khubaib Amjad Alam Mehdi Hussain*

*International Journal of Database Theory and Application*, Volume 8, No.1, Pages 245-270

**Impact Factor:** -
**DOI:** 10.14257/ijdta.2015.8.1.25

**Characterizing Strengths of Snort-based IDPS**                                                                                                                  2014

*Ghilman Ahmed Mehdi Hussain M.N.A. Khan*

*Research Journal of Recent Sciences*, Volume 3(4), Pages 88-94

**Impact Factor:** N/A
**DOI:** http://www.isca.me/rjrs/archive/v3/i4/15.ISCA-RJRS-2013-483.php

**Information Hiding Using Edge Boundaries of Objects**                                                                                                           2011

*Mehdi Hussain*

*International Journal of Security and Its Applications*, Volume 5, No. 3, Pages 1-10

**Impact Factor:** N/A

## Conference Proceedings

**A Study on the Forensic Analysis of Airlines Applications on Android Operating System** 2023

*Urva Maryam Mehdi Hussain*

*2023 IEEE Conference on Dependable and Secure Computing, DSC 2023*, res.country(233,)

**Citations:** N/A

**DOI:** 10.1109/DSC61021.2023.10354207

**A Forensic Framework for Webmail Threat Detection Using Log Analysis** 2022

*Abdul Saboor Malik Muhammad Khuram Shahzad Mehdi Hussain*

*Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* res.country(188,)

**Citations:** N/A

**DOI:** 10.1007/978-3-031-17510-7_5

**Automated Analysis of Pakistani Websites' Compliance with GDPR and Pakistan Data Protection Act** 2021

*Muhammad Asif Yousra Javed Mehdi Hussain*

*2021 International Conference on Frontiers of Information Technology (FIT)*, res.country(282,)

**Citations:** 5

**DOI:** https://10.1109/FIT53504.2021.00051

**Towards A Distributed Ledger Based Verifiable Trusted Protocol For VANET** 2021

*Muhammad Usman Aftab Mehdi Hussain Anders Lindgren Abdul Ghafoor*

*2021 International Conference on Digital Futures and Transformative Technologies (ICoDT2)*, res.country(177,)

**Citations:** 2

**DOI:** 10.1109/ICoDT252288.2021.9441531

**Pixel value differencing steganography techniques: Analysis and open challenge** 2015

*Mehdi Hussain Ainuddin Wahid Abdul Wahab Nor Badrul Anuar Rosli Salleh Rafidah Md Noor*

*2015 IEEE International Conference on Consumer Electronics - Taiwan*, res.country(227,)

**Citations:** 14

**DOI:** 10.1109/ICCE-TW.2015.7216859

**Pixel intensity based high capacity data embedding method** 2010

*Mehdi Hussain Mureed Hussain*

*2010 International Conference on Information and Emerging Technologies, ICIET 2010*, res.country(177,)

**Citations:** 19

**DOI:** 10.1109/ICIET.2010.5625723

## Editorial Activities

**Transactions on Dependable and Secure Computing** 2025

Reviewed Papers for Journals

**Impact Factor:** 7.0

**IEEE Sensors Journal** 2025

Reviewed Papers for Journals

**Impact Factor:** 4.325

**IEEE Sensors Journal** 2025

Reviewed Papers for Journals

**Impact Factor:** 4.325

**Journal of Information Security and Applications** 2025

Reviewed Papers for Journals

**Impact Factor:** 4.92

**PLOS ONE** 2025

Reviewed Papers for Journals

**Impact Factor:** 2.9

**Engineered Science** 2025

Reviewed Papers for Journals

**Impact Factor:** N/A

**Journal of Information Security and Applications**                                      2025
Reviewed Papers for Journals
**Impact Factor:** 3.8

**IEEE Transactions on Multimedia**                                                       2025
Reviewed Papers for Journals
**Impact Factor:** 8.62

**International Journal of Electrical and Computer Engineering Systems**                   2025
Reviewed Papers for Journals
**Impact Factor:** 0.8

**Transactions on Information Forensics & Security**                                       2025
Reviewed Papers for Journals
**Impact Factor:** 6.3

**Signal Processing: Image Communication**                                                2025
Reviewed Papers for Journals
**Impact Factor:** 3.4

**Journal of Information Security and Applications**                                       2024
Editor in Chief of Journal
**Impact Factor:** 4.92

                                                                                          2024

Reviewed Papers for Journals
**Impact Factor:** 2.0

**Journal of Information Security and Applications**                                       2024
Reviewed Papers for Journals
**Impact Factor:** 3.6

**Computers**                                                                             2024
Reviewed Papers for Journals
**Impact Factor:** 2.6

**Journal of Intelligent & Fuzzy Systems**                                                2024
Reviewed Papers for Journals
**Impact Factor:** 1.7

**Discover Internet of Things**                                                           2024
Reviewed Papers for Journals
**Impact Factor:** N/A

**IEEE Access**                                                                           2024
Reviewed Papers for Journals
**Impact Factor:** 3.9

**Transactions on Information Forensics & Security**                                       2024
Reviewed Papers for Journals
**Impact Factor:** 7.178

**Alexandria Engineering Journal**                                                        2023
Reviewed Papers for Journals
**Impact Factor:** 3.696

**Computers and Electrical Engineering**                                                  2023
Editor in Chief of Journal
**Impact Factor:** 4.3

**Journal of Information Security and Applications**                                       2023
Reviewed Papers for Journals
**Impact Factor:** 4.96

**IEEE Transactions on Information Forensics and Security**                                2023
Reviewed Papers for Journals
**Impact Factor:** 7.231

**International Journal of Intelligent Systems**                                           2023
Reviewed Papers for Journals
**Impact Factor:** 7.0

**Journal of Engineering Research**　　　　　　　　　　　　　2023
　Reviewed Papers for Journals
　**Impact Factor:** 1.325

**Applied Sciences-Basel**　　　　　　　　　　　　　　　　　2023
　Reviewed Papers for Journals
　**Impact Factor:** 2.838

**Journal of Cybersecurity and Privacy**　　　　　　　　　　2023
　Reviewed Papers for Journals
　**Impact Factor:** N/A

**Journal of Information Security and Applications**　　　　　2023
　Reviewed Papers for Journals
　**Impact Factor:** 4.960

**Journal of Electrical and Computer Engineering**　　　　　2023
　Reviewed Papers for Journals
　**Impact Factor:** N/A

**EURASIP Journal on Image and Video Processing**　　　　2023
　Reviewed Papers for Journals
　**Impact Factor:** 2.399

**Signal Processing**　　　　　　　　　　　　　　　　　　2022
　Reviewed Papers for Journals
　**Impact Factor:** 4.729

**Journal of Internet Technology**　　　　　　　　　　　　2022
　Reviewed Papers for Journals
　**Impact Factor:** 1.140

**Visual Computer**　　　　　　　　　　　　　　　　　　　2022
　Reviewed Papers for Journals
　**Impact Factor:** 2.835

**OPTIK**　　　　　　　　　　　　　　　　　　　　　　　2022
　Reviewed Papers for Journals
　**Impact Factor:** 2.840

**Electronics Open Access since 2012**　　　　　　　　　　2022
　Reviewed Papers for Journals
　**Impact Factor:** 2.690

**Signal Processing**　　　　　　　　　　　　　　　　　　2022
　Reviewed Papers for Journals
　**Impact Factor:** 4.729

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　Reviewed Papers for Journals
　**Impact Factor:** 3.872

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　Reviewed Papers for Journals
　**Impact Factor:** 0.871

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　Reviewed Papers for Journals
　**Impact Factor:** 3.872

**Symmetry-Basel**　　　　　　　　　　　　　　　　　　　2021
　Reviewed Papers for Journals
　**Impact Factor:** 2.940

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　Reviewed Papers for Journals
　**Impact Factor:** 0

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　Reviewed Papers for Journals

**Impact Factor:** 6.795

Reviewed Papers for Journals
**Impact Factor:** 2.601

Reviewed Papers for Journals
**Impact Factor:** 10.85

Reviewed Papers for Journals
**Impact Factor:** 3.745

Reviewed Papers for Journals
**Impact Factor:** 2.187

Reviewed Papers for Journals

Reviewed Papers for Journals
**Impact Factor:** 2.479

Reviewed Papers for Journals
**Impact Factor:** 1.711

Reviewed Papers for Journals
**Impact Factor:** 4.201

Reviewed Papers for Journals
**Impact Factor:** -

Reviewed Papers for Journals
**Impact Factor:** 5.524

Reviewed Papers for Journals
**Impact Factor:** 6.211

Edited Journal Issue / Proceeding / Book