

Muhammad Ilyas

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

1,434
citations

361413

20
h-index

395702

33
g-index

104
all docs

104
docs citations

104
times ranked

1771
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought Tolerance Strategies in Plants: A Mechanistic Approach. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 926-944.	5.1	161
2	<i>Arabidopsis</i> leucine-rich repeat receptor-like kinase NLR1 is required for induction of innate immunity to parasitic nematodes. <i>PLoS Pathogens</i> , 2017, 13, e1006284.	4.7	135
3	Legume yellow mosaic viruses: genetically isolated begomoviruses. <i>Molecular Plant Pathology</i> , 2007, 8, 343-348.	4.2	101
4	Genetic diversity and phylogeography of begomoviruses infecting legumes in Pakistan. <i>Journal of General Virology</i> , 2010, 91, 2091-2101.	2.9	66
5	Hepatitis B virus infection among different sex and age groups in Pakistani Punjab. <i>Virology Journal</i> , 2011, 8, 225.	3.4	57
6	The genetics of intellectual disability: advancing technology and gene editing. <i>F1000Research</i> , 2020, 9, 22.	1.6	56
7	A Virus-Derived Stacked RNAi Construct Confers Robust Resistance to Cassava Brown Streak Disease. <i>Frontiers in Plant Science</i> , 2016, 7, 2052.	3.6	55
8	Provitamin A biofortification of cassava enhances shelf life but reduces dry matter content of storage roots due to altered carbon partitioning into starch. <i>Plant Biotechnology Journal</i> , 2018, 16, 1186-1200.	8.3	49
9	Plant species and communities assessment in interaction with edaphic and topographic factors; an ecological study of the mount Eelum District Swat, Pakistan. <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 778-786.	3.8	42
10	Trust-based energy-efficient routing protocol for Internet of things-based sensor networks. <i>International Journal of Distributed Sensor Networks</i> , 2020, 16, 155014772096435.	2.2	35
11	Functional characterization of germin and germin-like protein genes in various plant species using transgenic approaches. <i>Biotechnology Letters</i> , 2016, 38, 1405-1421.	2.2	33
12	Impact of Ethical Leadership on Organizational Safety Performance: The Mediating Role of Safety Culture and Safety Consciousness. <i>Ethics and Behavior</i> , 2018, 28, 628-643.	1.8	31
13	Epitopes based drug design for dengue virus envelope protein: A computational approach. <i>Computational Biology and Chemistry</i> , 2017, 71, 152-160.	2.3	30
14	Structural and functional characteristics of plant proteinase inhibitor-II (PI-II) family. <i>Biotechnology Letters</i> , 2017, 39, 647-666.	2.2	28
15	Life cycle cost analysis of wastewater treatment: A systematic review of literature. <i>Journal of Cleaner Production</i> , 2021, 310, 127549.	9.3	27
16	Differential response of cassava genotypes to infection by cassava mosaic geminiviruses. <i>Virus Research</i> , 2017, 227, 69-81.	2.2	26
17	Energy Harvested and Cooperative Enabled Efficient Routing Protocol (EHCRP) for IoT-WBAN. <i>Sensors</i> , 2020, 20, 6267.	3.8	26
18	Identification of a major pathogenicity determinant and suppressors of RNA silencing encoded by a South Pacific isolate of Banana bunchy top virus originating from Pakistan. <i>Virus Genes</i> , 2011, 42, 272-281.	1.6	25

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19	Performance of 3D printed topologically optimized novel auxetic structures under compressive loading: experimental and FE analyses. <i>Journal of Materials Research and Technology</i> , 2021, 15, 394-408.	5.8	25
20	Time-domain and modal response of ice shelves to wave forcing using the finite element method. <i>Journal of Fluids and Structures</i> , 2018, 80, 113-131.	3.4	24
21	Computational Docking Study of p7 Ion Channel from HCV Genotype 3 and Genotype 4 and Its Interaction with Natural Compounds. <i>PLoS ONE</i> , 2015, 10, e0126510.	2.5	18
22	FRactal Minkowski-shaped Resonator for Noninvasive Biomedical Measurements: Blood Glucose Test. <i>Progress in Electromagnetics Research C</i> , 2021, 107, 143-156.	0.9	18
23	Whole genome sequencing of an ethnic Pathan (Pakhtun) from the north-west of Pakistan. <i>BMC Genomics</i> , 2015, 16, 172.	2.8	16
24	Evaluation of synthetic hexaploid wheats (derivative of durum wheats and <i>Aegilops tauschii</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 T <i>Molecular Biology Reports</i> , 2013, 40, 21-26.	2.3	15
25	In silico identification of novel IL-1 β inhibitors to target protein-protein interfaces. <i>Computational Biology and Chemistry</i> , 2015, 58, 158-166.	2.3	14
26	Mathematical Modeling of Ultra Wideband <ital>in Vivo</ital> Radio Channel. <i>IEEE Access</i> , 2018, 6, 20848-20854.	4.2	13
27	An Efficient and Reliable Routing Method for Hybrid Mobile Ad Hoc Networks Using Deep Reinforcement Learning. <i>Applied Bionics and Biomechanics</i> , 2020, 2020, 1-13.	1.1	13
28	Analysis of Germin-like Protein Genes (OsGLPs) Family in Rice Using Various In silico Approaches. <i>Current Bioinformatics</i> , 2020, 15, 17-33.	1.5	13
29	Profile: Health and Demographic Surveillance System in peri-urban areas of Karachi, Pakistan. <i>Gates Open Research</i> , 0, 2, 2.	1.1	13
30	A situational analysis of HIV and AIDS in Pakistan. <i>Virology Journal</i> , 2011, 8, 191.	3.4	12
31	Mediating the Fate of Cancer Cell Uptake: Dual-Targeted Magnetic Nanovectors with Biotin and Folate Surface Ligands. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6138-6147.	5.2	12
32	Characterization of D-genome diversity for tolerance to boron toxicity in synthetic hexaploid wheat and in silico analysis of candidate genes. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	2.1	11
33	<i>Escherichia coli</i> as a fatty acid and biodiesel factory: current challenges and future directions. <i>Environmental Science and Pollution Research</i> , 2016, 23, 12007-12018.	5.3	11
34	In silico analysis of transcription factor binding sites in promoters of germin-like protein genes in rice. <i>Archives of Biological Sciences</i> , 2016, 68, 863-876.	0.5	10
35	Real-Time Fuel Truck Detection Algorithm Based on Deep Convolutional Neural Network. <i>IEEE Access</i> , 2020, 8, 118808-118817.	4.2	10
36	Experimental analysis of ultra wideband in vivo radio channel. , 2018, , .		9

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37	Design a Tracing System for a Seed Supply Chain Based on Blockchain. , 2020, , .		9
38	Envelope 2 protein phosphorylation sites S75 & 277 of hepatitis C virus genotype 1a and interferon resistance: A sequence alignment approach. Virology Journal, 2011, 8, 71.	3.4	8
39	Performance Optimization of Microstrip Patch Antenna Using Frequency Selective Surfaces for 60 GHz. , 2020, , .		8
40	Strain effect on the electronic and photocatalytic properties of GaN-MSSe (M=Mo, W). Journal of Solid State Chemistry, 2022, 306, 122798.	2.9	8
41	Abortion and Protection of the Human Fetus: Religious and Legal Problems in Pakistan. Human Reproduction and Genetic Ethics, 2009, 15, 55-59.	0.1	7
42	A comprehensive Y-STR portrait of Yousafzaiâ€™s population. International Journal of Legal Medicine, 2017, 131, 1241-1242.	2.2	7
43	Functional characterization of the rice root Germin-like protein gene-1 (OsRGLP1) promoter in Nicotiana tabacum. 3 Biotech, 2019, 9, 130.	2.2	7
44	Performance enhancement of safety message communication via designing dynamic power control mechanisms in vehicular ad hoc networks. Computational Intelligence, 2021, 37, 1286-1308.	3.2	7
45	Spastic paraplegia preceding PSEN1 â€related familial Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12186.	2.4	7
46	A mixed finite element method for a sixth-order elliptic problem. IMA Journal of Numerical Analysis, 2019, 39, 374-397.	2.9	6
47	Auditory Perception Based Anti-Spoofing System for Human Age Verification. Electronics (Switzerland), 2019, 8, 1313.	3.1	6
48	Evaluation of ultra-wideband in vivo radio channel and its effects on system performance. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3530.	3.9	6
49	Influence of Forming Parameters on the Mechanical Behavior of a Thin Aluminum Sheet Processed through Single Point Incremental Forming. Metals, 2020, 10, 1461.	2.3	6
50	Analysis of full-scale aircraft impact to reinforced concrete and steel plate reinforced concrete multiple barriers protecting nuclear power plants. Structures, 2020, 27, 732-746.	3.6	6
51	BiometricAccessFilter: A Web Control Access System Based on Human Auditory Perception for Children Protection. Electronics (Switzerland), 2020, 9, 361.	3.1	6
52	Effect of PE File Header Features on Accuracy. , 2020, , .		6
53	Polygon Number Algorithm for Peak-to-Average Ratio Reduction of Massive 5G Systems Using Modified Partial Transmit Sequence Scheme. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	1.2	6
54	Improving Stock Prediction Accuracy Using CNN and LSTM. , 2020, , .		6

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55	Bit Error Rate Performance of In-vivo Radio Channel Using Maximum Likelihood Sequence Estimation. , 2020, , .		5
56	Analysis of Germin-like protein genes family in <i>Vitis vinifera</i> (VvGLPs) using various in silico approaches. <i>Brazilian Journal of Biology</i> , 2022, 84, e256732.	0.9	5
57	The Development of Computational Biology in Pakistan: Still a Long Way to Go. <i>PLoS Computational Biology</i> , 2011, 7, e1001135.	3.2	4
58	Load Balancing In Hybrid WIFI/ LIFI Networks Based on the RSSI of the Load Using Optimized KNN Clustering. , 2020, , .		4
59	A Novel Design Reconfigurable Antenna Based on the Metamaterial for Wearable Applications. <i>Journal of Physics: Conference Series</i> , 2021, 1973, 012042.	0.4	4
60	Comparative assessment of impact analysis methods applied to large commercial aircraft crash on reinforced concrete containment. <i>PLoS ONE</i> , 2020, 15, e0237264.	2.5	4
61	Advances in the role of HCV nonstructural protein 5a (NS5A) of 3a genotype in inducing insulin resistance by possible phosphorylation of AKT/PKB. <i>Scientific Reports</i> , 2019, 9, 6150.	3.3	3
62	Identification of common genetic markers of paroxysmal neurological disorders using a network analysis approach. <i>Neurological Sciences</i> , 2020, 41, 851-857.	1.9	3
63	Location Dependent Channel Characteristics for Implantable Devices. , 2020, , .		3
64	Identity Management Approach in Internet of Things (IoT). , 2020, , .		3
65	Mitochondrial DNA diversity in the Khattak and Khesghi of the Peshawar Valley, Pakistan. <i>Genetica</i> , 2020, 148, 195-206.	1.1	3
66	Effect of pre-rolling temperature on the interfacial properties and formability of steel-steel bilayer sheet in Single Point Incremental Forming. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2021, 235, 406-416.	2.4	3
67	A novel variant in the DSE gene leads to Ehlersâ€“Danlos musculocontractural type 2 in a Pakistani family. <i>Congenital Anomalies (discontinued)</i> , 2021, 61, 177-182.	0.6	3
68	Positional effect of phosphorylation sites 266 and 267 in the cytoplasmic domain of the E2 protein of hepatitis C virus 3a genotype: Interferon Resistance analysis via Sequence Alignment. <i>Virology Journal</i> , 2011, 8, 204.	3.4	2
69	Characterization of Hepatitis C Virus genotype 3a Hypervariable region 1 in patients achieved rapid virological response to alpha interferon and Ribavirin Combination therapy. <i>Virology Journal</i> , 2011, 8, 253.	3.4	2
70	Population genetic structure of domain I of apical membrane antigen-1 in <i>Plasmodium falciparum</i> isolates from Hazara division of Pakistan. <i>Malaria Journal</i> , 2018, 17, 389.	2.3	2
71	Genetic analysis of 15 autosomal STRs in Yousafzai population of Pakistan. <i>International Journal of Legal Medicine</i> , 2018, 132, 1635-1636.	2.2	2
72	Spectrum Behavior Prediction and Optimized Throughput /Time performance Using FFNN in Cognitive Radio. , 2020, , .		2

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73	A gradient recovery method based on an oblique projection and boundary modification. ANZIAM Journal, 0, 58, 34.	0.0	2
74	Performance of a validated spontaneous preterm delivery predictor in South Asian and Sub-Saharan African women: a nested case control study. Journal of Maternal-Fetal and Neonatal Medicine, 2022, 35, 8878-8886.	1.5	2
75	Management of Micro-grid with (SM) to Decrease Electricity Bills by Using (CAEST). , 2020, , .		1
76	Automatic Detection of Vehicle Congestion by Using Roadside Unit. , 2021, , .		1
77	Frequency distribution of mitochondrial DNA haplogroups within the Kalash population of Pakistan. Meta Gene, 2021, 28, 100893.	0.6	1
78	Association study of six candidate genes with major depressive disorder in the North-Western population of Pakistan. PLoS ONE, 2021, 16, e0248454.	2.5	1
79	A stabilized mixed finite element method for Poisson problem based on a three-field formulation. ANZIAM Journal, 0, 57, 177.	0.0	1
80	A three-field formulation of the Poisson problem with Nitsche approach. ANZIAM Journal, 0, 59, 128.	0.0	1
81	Indoor location estimation by using MLE based algorithm on smallcell networks. , 2015, , .		0
82	A mixed finite element method for the Poisson problem using a biorthogonal system with <sc>Raviart-Thomas</sc> elements. Numerical Methods for Partial Differential Equations, 2021, 37, 2429-2445.	3.6	0
83	Genetic variants associated with diseases in Afghan population. Molecular Genetics & Genomic Medicine, 2021, 9, e1608.	1.2	0
84	Attitude toward personal genomics: A national-wide survey of public and professionals in Pakistan. Annals of Human Genetics, 2021, 85, 196-199.	0.8	0
85	Genetic characterization of the Afghan population: Analysis of mitochondrial DNA control region variation. Meta Gene, 2021, , 100922.	0.6	0
86	PGVdb: A reference database of genetic variations in the Pakistani populations. Meta Gene, 2021, 28, 100857.	0.6	0
87	Literature Review: Heart Rate Variability as a Biomonitoring of Occupational Stress. The Indonesian Journal of Occupational Safety and Health, 2021, 10, 273.	0.1	0
88	Literature Review: Biological Monitoring of Occupational Tetrachloroethylene Exposure in Workers. The Indonesian Journal of Occupational Safety and Health, 2021, 10, 280.	0.1	0
89	CONSTRUCTION OF FAMILY OF HASH FUNCTIONS BASED ON IDEAL LATTICE. JP Journal of Algebra, Number Theory and Applications, 2015, 36, 177-188.	0.1	0
90	Adaptive Mixed Finite Element Method for Elliptic Problems with Concentrated Source Terms. Indonesian Journal of Science and Technology, 2019, 4, 263-269.	1.5	0

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91	FINITE-ELEMENT METHODS AND MULTI-FIELD APPLICATIONS. Bulletin of the Australian Mathematical Society, 2020, 102, 174-176.	0.5	0
92	Optimal parameter for the stabilised five-field extended Hu-Washizu formulation. ANZIAM Journal, 0, 61, C197-C213.	0.0	0
93	A Web Application for Company Reports Management System. , 2020, , .		0
94	RELATIONSHIP BETWEEN NUTRITION INTAKE AND THE FITNESS OF MANUFACTURING WORKERS IN INDONESIA. The Indonesian Journal of Public Health, 2021, 16, 23.	0.1	0
95	THE EFFECT OF INTERVENTION PROGRAMS ON HOW TO WORK COMPLAINTS IN MECHANICAL WORKERS IN HEAVY EQUIPMENT COMPANIES. The Indonesian Journal of Public Health, 2021, 16, 1.	0.1	0
96	Cloud Assisted Approach for Determining WiFi Problems in Field Deployed Mesh APs - A Case Study for Quality Problems. , 2020, , .		0
97	Improving scheduling Function for IEEE802.15.4e Time Slotted Channel Hopping for Wireless Sensor Networks. , 2020, , .		0
98	A community call to action: mitigating COVID pandemic's impact on mental health. Future Virology, 2022, , .	1.8	0
99	Examination of Salivary Cortisol as a Biomonitoring of Work-Related Stress. The Indonesian Journal of Occupational Safety and Health, 2022, 11, 152-160.	0.1	0