Muhammad Ilyas

List of Publications by Year
in descending order

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	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
2	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
3	A community call to action: mitigating COVID pandemic's impact on mental health. Future Virology, 2022, , .	1.8	0
4	Analysis of Germin-like protein genes family in Vitis vinifera (VvGLPs) using various in silico approaches. Brazilian Journal of Biology, 2022, 84, e256732.	0.9	5
5	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
6	Drought Tolerance Strategies in Plants: A Mechanistic Approach. Journal of Plant Growth Regulation, 2021, 40, 926-944.	5.1	161
7	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
8	Effect of pre-rolling temperature on the interfacial properties and formability of steel-steel bilayer sheet in Single Point Incremental Forming. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 406-416.	2.4	3
9	A mixed finite element method for the Poisson problem using a biorthogonal system with <scp>Raviart–Thomas</scp> elements. Numerical Methods for Partial Differential Equations, 2021, 37, 2429-2445.	3.6	0
10	Genetic variants associated with diseases in Afghan population. Molecular Genetics & Genomic Medicine, 2021, 9, e1608.	1.2	0
11	FRACTAL MINKOWSKI-SHAPED RESONATOR FOR NONINVASIVE BIOMEDICAL MEASUREMENTS: BLOOD GLUCOSE TEST. Progress in Electromagnetics Research C, 2021, 107, 143-156.	0.9	18
12	Attitude toward personal genomics: A nation€wide survey of public and professionals in Pakistan. Annals of Human Genetics, 2021, 85, 196-199.	0.8	0
13	Genetic characterization of the Afghan population: Analysis of mitochondrial DNA control region variation. Meta Gene, 2021, , 100922.	0.6	0
14	Automatic Detection of Vehicle Congestion by Using Roadside Unit. , 2021, , .		1
15	Frequency distribution of mitochondrial DNA haplogroups within the Kalash population of Pakistan. Meta Gene, 2021, 28, 100893.	0.6	1
16	PGVdb: A reference database of genetic variations in the Pakistani populations. Meta Gene, 2021, 28, 100857.	0.6	0
17	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
18	A novel variant in the DSE gene leads to Ehlers–Danlos musculocontractural type 2 in a Pakistani family. Congenital Anomalies (discontinued), 2021, 61, 177-182.	0.6	3

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19	Literature Review: Biological Monitoring of Occupational Tetrachloroethylene Exposure in Workers. The Indonesian Journal of Occupational Safety and Health, 2021, 10, 280.	0.1	0
20	A Novel Design Reconfigurable Antenna Based on the Metamaterial for Wearable Applications. Journal of Physics: Conference Series, 2021, 1973, 012042.	0.4	4
21	Life cycle cost analysis of wastewater treatment: A systematic review of literature. Journal of Cleaner Production, 2021, 310, 127549.	9.3	27
22	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
23	Performance of 3D printed topologically optimized novel auxetic structures under compressive loading: experimental and FE analyses. Journal of Materials Research and Technology, 2021, 15, 394-408.	5.8	25
24	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
25	RELATIONSHIP BETWEEN NUTRITION INTAKE AND THE FITNESS OF MANUFACTURING WORKERS IN INDONESIA. The Indonesian Journal of Public Health, 2021, 16, 23.	0.1	0
26	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
27	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
28	Identification of common genetic markers of paroxysmal neurological disorders using a network analysis approach. Neurological Sciences, 2020, 41, 851-857.	1.9	3
29	Trust-based energy-efficient routing protocol for Internet of thingsâ€"based sensor networks. International Journal of Distributed Sensor Networks, 2020, 16, 155014772096435.	2.2	35
30	Real-Time Fuel Truck Detection Algorithm Based on Deep Convolutional Neural Network. IEEE Access, 2020, 8, 118808-118817.	4.2	10
31	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
32	Load Balancing In Hybrid WIFI/ LIFI Networks Based on the RSSI of the Load Using Optimized KNN Clustering. , 2020, , .		4
33	Mediating the Fate of Cancer Cell Uptake: Dual-Targeted Magnetic Nanovectors with Biotin and Folate Surface Ligands. ACS Biomaterials Science and Engineering, 2020, 6, 6138-6147.	5.2	12
34	Management of Micro-grid with (SM) to Decrease Electricity Bills by Using (CAEST). , 2020, , .		1
35	Bit Error Rate Performance of In-vivo Radio Channel Using Maximum Likelihood Sequence Estimation. , 2020, , .		5
36	Location Dependent Channel Characteristics for Implantable Devices. , 2020, , .		3

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37	Identity Management Approach in Internet of Things (IoT). , 2020, , .		3
38	An Efficient and Reliable Routing Method for Hybrid Mobile Ad Hoc Networks Using Deep Reinforcement Learning. Applied Bionics and Biomechanics, 2020, 2020, 1-13.	1.1	13
39	Energy Harvested and Cooperative Enabled Efficient Routing Protocol (EHCRP) for IoT-WBAN. Sensors, 2020, 20, 6267.	3.8	26
40	Mitochondrial DNA diversity in the Khattak and Kheshgi of the Peshawar Valley, Pakistan. Genetica, 2020, 148, 195-206.	1.1	3
41	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
42	Spectrum Behavior Prediction and Optimized Throughput /Time performance Using FFNN in Cognitive Radio. , 2020, , .		2
43	Analysis of Germin-like Protein Genes (OsGLPs) Family in Rice Using Various In silico Approaches. Current Bioinformatics, 2020, 15, 17-33.	1.5	13
44	BiometricAccessFilter: A Web Control Access System Based on Human Auditory Perception for Children Protection. Electronics (Switzerland), 2020, 9, 361.	3.1	6
45	Design a Tracing System for a Seed Supply Chain Based on Blockchain. , 2020, , .		9
46	Performance Optimization of Microstrip Patch Antenna Using Frequency Selective Surfaces for 60 GHz. , 2020, , .		8
47	The genetics of intellectual disability: advancing technology and gene editing. F1000Research, 2020, 9, 22.	1.6	56
48	FINITE-ELEMENT METHODS AND MULTI-FIELD APPLICATIONS. Bulletin of the Australian Mathematical Society, 2020, 102, 174-176.	0.5	0
49	A Web Application for Company Reports Management System. , 2020, , .		0
50	Effect of PE File Header Features on Accuracy. , 2020, , .		6
51	Comparative assessment of impact analysis methods applied to large commercial aircraft crash on reinforced concrete containment. PLoS ONE, 2020, 15, e0237264.	2.5	4
52	Cloud Assisted Approach for Determining WiFi Problems in Field Deployed Mesh APs - A Case Study for Quality Problems. , 2020, , .		0
53	Improving scheduling Function for IEEE802.15.4e Time Slotted Channel Hopping for Wireless Sensor Networks. , 2020, , .		0
54	Improving Stock Prediction Accuracy Using CNN and LSTM. , 2020, , .		6

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55	A mixed finite element method for a sixth-order elliptic problem. IMA Journal of Numerical Analysis, 2019, 39, 374-397.	2.9	6
56	Advances in the role of HCV nonstructural protein 5a (NS5A) of 3a genotype in inducing insulin resistance by possible phosphorylation of AKT/PKB. Scientific Reports, 2019, 9, 6150.	3.3	3
57	Functional characterization of the rice root Germin-like protein gene-1 (OsRGLP1) promoter in Nicotiana tabacum. 3 Biotech, 2019, 9, 130.	2.2	7
58	Auditory Perception Based Anti-Spoofing System for Human Age Verification. Electronics (Switzerland), 2019, 8, 1313.	3.1	6
59	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
60	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
61	Time-domain and modal response of ice shelves to wave forcing using the finite element method. Journal of Fluids and Structures, 2018, 80, 113-131.	3.4	24
62	Provitamin A biofortification of cassava enhances shelf life but reduces dry matter content of storage roots due to altered carbon partitioning into starch. Plant Biotechnology Journal, 2018, 16, 1186-1200.	8.3	49
63	Impact of Ethical Leadership on Organizational Safety Performance: The Mediating Role of Safety Culture and Safety Consciousness. Ethics and Behavior, 2018, 28, 628-643.	1.8	31
64	Population genetic structure of domain I of apical membrane antigen-1Âin Plasmodium falciparumÂisolates from Hazara division of Pakistan. Malaria Journal, 2018, 17, 389.	2.3	2
65	Experimental analysis of ultra wideband in vivo radio channel. , 2018, , .		9
66	Mathematical Modeling of Ultra Wideband <italic>in Vivo</italic> Radio Channel. IEEE Access, 2018, 6, 20848-20854.	4.2	13
67	Genetic analysis of 15 autosomal STRs in Yousafzai population of Pakistan. International Journal of Legal Medicine, 2018, 132, 1635-1636.	2.2	2
68	Plant species and communities assessment in interaction with edaphic and topographic factors; an ecological study of the mount Eelum District Swat, Pakistan. Saudi Journal of Biological Sciences, 2017, 24, 778-786.	3.8	42
69	A comprehensive Y-STR portrait of Yousafzaiâ€™s population. International Journal of Legal Medicine, 2017, 131, 1241-1242.	2.2	7
70	Structural and functional characteristics of plant proteinase inhibitor-II (PI-II) family. Biotechnology Letters, 2017, 39, 647-666.	2.2	28
71	Epitopes based drug design for dengue virus envelope protein: A computational approach. Computational Biology and Chemistry, 2017, 71, 152-160.	2.3	30
72	Differential response of cassava genotypes to infection by cassava mosaic geminiviruses. Virus Research, 2017, 227, 69-81.	2.2	26

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73	Arabidopsis leucine-rich repeat receptor–like kinase NILR1 is required for induction of innate immunity to parasitic nematodes. PLoS Pathogens, 2017, 13, e1006284.	4.7	135
74	In silico analysis of transcription factor binding sites in promoters of germin-like protein genes in rice. Archives of Biological Sciences, 2016, 68, 863-876.	0.5	10
75	Functional characterization of germin and germin-like protein genes in various plant species using transgenic approaches. Biotechnology Letters, 2016, 38, 1405-1421.	2.2	33
76	Escherichia coli as a fatty acid and biodiesel factory: current challenges and future directions. Environmental Science and Pollution Research, 2016, 23, 12007-12018.	5.3	11
77	A Virus-Derived Stacked RNAi Construct Confers Robust Resistance to Cassava Brown Streak Disease. Frontiers in Plant Science, 2016, 7, 2052.	3.6	55
78	Computational Docking Study of p7 Ion Channel from HCV Genotype 3 and Genotype 4 and Its Interaction with Natural Compounds. PLoS ONE, 2015, 10, e0126510.	2.5	18
79	Characterization of D-genome diversity for tolerance to boron toxicity in synthetic hexaploid wheat and in silico analysis of candidate genes. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	11
80	In silico identification of novel IL-1β inhibitors to target protein–protein interfaces. Computational Biology and Chemistry, 2015, 58, 158-166.	2.3	14
81	Whole genome sequencing of an ethnic Pathan (Pakhtun) from the north-west of Pakistan. BMC Genomics, 2015, 16, 172.	2.8	16
82	Indoor location estimation by using MLE based algorithm on smallcell networks. , 2015, , .		0
83	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
84	Evaluation of synthetic hexaploid wheats (derivative of durum wheats and Aegilops tauschii) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T Molecular Biology Reports, 2013, 40, 21-26.	2.3	15
85	A situational analysis of HIV and AIDS in Pakistan. Virology Journal, 2011, 8, 191.	3.4	12
86	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. Virology Journal, 2011, 8, 204.	3.4	2
87	Characterization of Hepatitis C Virus genotype 3a Hypervariable region 1 in patients achieved rapid virological response to alpha interferon and Ribavirin Combination therapy. Virology Journal, 2011, 8, 253.	3.4	2
88	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
89	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. Virus Genes, 2011, 42, 272-281.	1.6	25
90	Hepatitis B virus infection among different sex and age groups in Pakistani Punjab. Virology Journal, 2011, 8, 225.	3.4	57

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91	The Development of Computational Biology in Pakistan: Still a Long Way to Go. PLoS Computational Biology, 2011, 7, e1001135.	3.2	4
92	Genetic diversity and phylogeography of begomoviruses infecting legumes in Pakistan. Journal of General Virology, 2010, 91, 2091-2101.	2.9	66
93	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
94	Legume yellow mosaic viruses: genetically isolated begomoviruses. Molecular Plant Pathology, 2007, 8, 343-348.	4.2	101
95	Profile: Health and Demographic Surveillance System in peri-urban areas of Karachi, Pakistan. Gates Open Research, 0, 2, 2.	1.1	13
96	A stabilized mixed finite element method for Poisson problem based on a three-field formulation. ANZIAM Journal, 0, 57, 177.	0.0	1
97	A gradient recovery method based on an oblique projection and boundary modification. ANZIAM Journal, 0, 58, 34.	0.0	2
98	A three-field formulation of the Poisson problem with Nitsche approach. ANZIAM Journal, 0, 59, 128.	0.0	1
99	Optimal parameter for the stabilised five-field extended Huâ€"Washizu formulation. ANZIAM Journal, 0, 61, C197-C213.	0.0	0