

# Muhammad Ali

## List of Publications by Year in descending order

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108  
papers

2,828  
citations

257450

24  
h-index

197818

49  
g-index

114  
all docs

114  
docs citations

114  
times ranked

3651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial biofilm and associated infections. Journal of the Chinese Medical Association, 2018, 81, 7-11.	1.4	973
2	Mechanical behaviors and acoustic emission fractal characteristics of coal specimens with a pre-existing flaw of various inclinations under uniaxial compression. International Journal of Rock Mechanics and Minings Sciences, 2019, 116, 38-51.	5.8	143
3	Bacteriophages: an overview of the control strategies against multiple bacterial infections in different fields. Journal of Basic Microbiology, 2019, 59, 123-133.	3.3	80
4	Vanadium toxicity in chickpea ( <i>Cicer arietinum</i> L.) grown in red soil: Effects on cell death, ROS and antioxidative systems. Ecotoxicology and Environmental Safety, 2018, 158, 139-144.	6.0	69
5	Cytoplasmic short linear motifs in ACE2 and integrin $\beta 3$ link SARS-CoV-2 host cell receptors to mediators of endocytosis and autophagy. Science Signaling, 2021, 14, .	3.6	65
6	Characteristics and precursor information of electromagnetic signals of mining-induced coal and gas outburst. Journal of Loss Prevention in the Process Industries, 2018, 54, 206-215.	3.3	63
7	A study on the FTIR spectra of pre- and post-explosion coal dust to evaluate the effect of functional groups on dust explosion. Chemical Engineering Research and Design, 2019, 130, 48-56.	5.6	55
8	Proteome-wide analysis of phospho-regulated PDZ domain interactions. Molecular Systems Biology, 2018, 14, e8129.	7.2	48
9	Human Capital, Social Capabilities and Economic Growth. Economies, 2018, 6, 2.	2.5	47
10	Surface Mn(II) oxidation actuated by a multicopper oxidase in a soil bacterium leads to the formation of manganese oxide minerals. Scientific Reports, 2015, 5, 10895.	3.3	39
11	Population Structure of Manganese-Oxidizing Bacteria in Stratified Soils and Properties of Manganese Oxide Aggregates under Manganese-Complex Medium Enrichment. PLoS ONE, 2013, 8, e73778.	2.5	39
12	Interactive effects of vanadium and phosphorus on their uptake, growth and heat shock proteins in chickpea genotypes under hydroponic conditions. Environmental and Experimental Botany, 2017, 134, 72-81.	4.2	38
13	Study on microstructure characteristics of material evidence in coal dust explosion and its significance in accident investigation. Fuel, 2020, 265, 116992.	6.4	38
14	Knowledge spillovers through FDI and trade: the moderating role of quality-adjusted human capital. Journal of Evolutionary Economics, 2016, 26, 837-868.	1.7	37
15	Study on sealing effect of pre-drainage gas borehole in coal seam based on air-gas mixed flow coupling model. Chemical Engineering Research and Design, 2020, 136, 15-27.	5.6	37
16	Regulation of Inducible Potassium Transporter KdpFABC by the KdpD/KdpE Two-Component System in <i>Mycobacterium smegmatis</i> . Frontiers in Microbiology, 2017, 8, 570.	3.5	36
17	Response of growth, antioxidant enzymes and root exudates production towards As stress in <i>Pteris vittata</i> and in <i>Astragalus sinicus</i> colonized by arbuscular mycorrhizal fungi. Environmental Science and Pollution Research, 2020, 27, 2340-2352.	5.3	34
18	Isolation, characterization and efficacy of phage MJ2 against biofilm forming multi-drug resistant <i>Enterobacter cloacae</i> . Folia Microbiologica, 2019, 64, 101-111.	2.3	33

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19	An experimental study on the precursory characteristics of EP before sandstone failure based on critical slowing down. <i>Journal of Applied Geophysics</i> , 2019, 170, 103818.	2.1	33
20	Proteome-scale mapping of binding sites in the unstructured regions of the human proteome. <i>Molecular Systems Biology</i> , 2022, 18, e10584.	7.2	33
21	Experimental Study of Electric Potential Response Characteristics of Different Lithological Samples Subject to Uniaxial Loading. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 397-408.	5.4	31
22	Luteovirus: insights into pathogenicity. <i>Archives of Virology</i> , 2014, 159, 2853-2860.	2.1	29
23	Isolation and characterization of a bacteriophage and its utilization against multi-drug resistant <i>Pseudomonas aeruginosa</i> -2995. <i>Life Sciences</i> , 2017, 190, 21-28.	4.3	29
24	Rockburst Risk Analysis During High-Hard Roof Breaking in Deep Mines. <i>Natural Resources Research</i> , 2020, 29, 4085-4101.	4.7	27
25	INverse Source Problem for a Space-Time Fractional Diffusion Equation. <i>Fractional Calculus and Applied Analysis</i> , 2018, 21, 844-863.	2.2	26
26	Complementary feeding practices and associated factors among children aged 6â€“23 months in Pakistan. <i>PLoS ONE</i> , 2021, 16, e0247602.	2.5	26
27	Overcoming mine safety crisis in Pakistan: An appraisal. <i>Process Safety Progress</i> , 2019, 38, e12041.	1.0	24
28	Detection of the organophosphate degrading gene <i>opdA</i> in the newly isolated bacterial strain <i>Bacillus pumilus</i> W1. <i>Annals of Microbiology</i> , 2012, 62, 233-239.	2.6	23
29	Inverse problem for a space-time fractional diffusion equation: Application of fractional Sturm-Liouville operator. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 2733-2747.	2.3	22
30	Prevalence of Hepatitis C Virus Genotypes in Pakistan: Current Scenario and Review of Literature. <i>Viral Immunology</i> , 2019, 32, 402-413.	1.3	22
31	Inverse source problems for a space-time fractional differential equation. <i>Inverse Problems in Science and Engineering</i> , 2020, 28, 47-68.	1.2	22
32	Orthogonal Numerical Analysis of Deformation and Failure Characteristics of Deep Roadway in Coal Mines: A Case Study. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 185.	2.0	22
33	3D modeling of the influence of a splay fault on controlling the propagation of nonlinear stress waves induced by blast loading. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 138, 106335.	3.8	21
34	ANALYSIS ON THE TIME-FREQUENCY CHARACTERISTICS OF ULTRASONIC WAVEFORM OF COAL UNDER UNIAXIAL LOADING. <i>Fractals</i> , 2019, 27, 1950100.	3.7	20
35	An inverse problem for a family of time fractional diffusion equations. <i>Inverse Problems in Science and Engineering</i> , 2017, 25, 1299-1322.	1.2	19
36	A causal mechanism for anomalous electromagnetic radiations from coal and rock failure. <i>Geophysics</i> , 2018, 83, E423-E434.	2.6	19

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37	A review of processing techniques for Fe-Ni soft magnetic materials. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1580-1604.	4.7	18
38	Experimental Study on Electric Potential Response Characteristics of Gas-Bearing Coal During Deformation and Fracturing Process. <i>Processes</i> , 2019, 7, 72.	2.8	18
39	Inertant effects and mechanism of Al(OH) <sub>3</sub> powder on polyethylene dust explosions based on flame propagation behavior and thermal analysis. <i>Fire Safety Journal</i> , 2021, 124, 103392.	3.1	18
40	The genus <i>Luteovirus</i> from infection to disease. <i>European Journal of Plant Pathology</i> , 2018, 151, 841-860.	1.7	17
41	Quantification study of working fatigue state affected by coal mine noise exposure based on fuzzy comprehensive evaluation. <i>Safety Science</i> , 2022, 146, 105577.	4.9	17
42	The Pathogenicity of <i>Pseudomonas syringae</i> MB03 against <i>Caenorhabditis elegans</i> and the Transcriptional Response of Nematicidal Genes upon Different Nutritional Conditions. <i>Frontiers in Microbiology</i> , 2016, 7, 805.	3.5	16
43	Genome-sequence analysis of <i>Acinetobacter johnsonii</i> MB44 reveals potential nematode-virulent factors. <i>SpringerPlus</i> , 2016, 5, 986.	1.2	15
44	Precursory changes in wave velocity for coal and rock samples under cyclic loading. <i>Results in Physics</i> , 2019, 12, 432-434.	4.1	15
45	Study on characteristics of EP responding to coal mining. <i>Engineering Fracture Mechanics</i> , 2020, 224, 106780.	4.3	15
46	3D modelling of the strength effect of backfill-rocks on controlling rockburst risk: a case study. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	15
47	Determinants of Related and Unrelated Export Diversification. <i>Economies</i> , 2017, 5, 50.	2.5	14
48	Penta-1,4-Diene-3-One Oxime Derivatives Strongly Inhibit the Replicase Domain of Tobacco Mosaic Virus: Elucidation Through Molecular Docking and Density Functional Theory Mechanistic Computations. <i>Journal of Antivirals &amp; Antiretrovirals</i> , 2018, 10, .	0.1	14
49	Inverse Problems for Diffusion Equation with Fractional Dzherbashian-Nersesian Operator. <i>Fractional Calculus and Applied Analysis</i> , 2021, 24, 1899-1918.	2.2	14
50	Geotechnical Properties of Effluent-Contaminated Cohesive Soils and Their Stabilization Using Industrial By-Products. <i>Processes</i> , 2018, 6, 203.	2.8	13
51	Wireless Power Transfer for Battery Powering System. <i>Electronics (Switzerland)</i> , 2018, 7, 178.	3.1	12
52	SARS-CoV-2 and the hidden carriers: Sewage, feline, and blood transfusion. <i>Journal of Medical Virology</i> , 2020, 92, 2291-2292.	5.0	12
53	Inverse Problem for a Multi-Term Fractional Differential Equation. <i>Fractional Calculus and Applied Analysis</i> , 2020, 23, 799-821.	2.2	12
54	Explosion-Induced Stress Wave Propagation in Interacting Fault System: Numerical Modeling and Implications for Chaoyang Coal Mine. <i>Shock and Vibration</i> , 2019, 2019, 1-12.	0.6	11

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55	Pyoverdine-Mediated Killing of <i>Caenorhabditis elegans</i> by <i>Pseudomonas syringae</i> MB03 and the Role of Iron in Its Pathogenicity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2198.	4.1	11
56	Tandem Hydration of Diisonitriles Triggered by Isonitrile Hydratase in <i>Streptomyces thioluteus</i> . <i>Organic Letters</i> , 2018, 20, 3562-3565.	4.6	10
57	Economic diversification and human development in Europe. <i>Eurasian Economic Review</i> , 2020, 10, 211-235.	3.0	10
58	Factors associated with prevalence of diarrhea among children under five years of age in Pakistan. <i>Children and Youth Services Review</i> , 2022, 132, 106303.	1.9	10
59	Influence of powder loading on rheology and injection molding of Fe-50Ni feedstocks. <i>Materials and Manufacturing Processes</i> , 2020, 35, 579-589.	4.7	9
60	Antioxidant and antibacterial activities of <i>Artemisia absinthium</i> and <i>Citrus paradisi</i> extracts repress viability of aggressive liver cancer cell line. <i>Molecular Biology Reports</i> , 2021, 48, 7703-7710.	2.3	9
61	Leveraging large multi-center cohorts of Alzheimer disease endophenotypes to understand the role of <i>Klotho</i> heterozygosity on disease risk. <i>PLoS ONE</i> , 2022, 17, e0267298.	2.5	9
62	Modern biotechnology-based therapeutic approaches against HIV infection (Review). <i>Biomedical Reports</i> , 2017, 7, 504-507.	2.0	8
63	First Report of <i>Duranta</i> leaf curl virus Infecting <i>Ficus virens</i> Showing Leaf Curl Symptoms in Pakistan. <i>Plant Disease</i> , 2020, 104, 2034.	1.4	8
64	In-situ microaeration of anaerobic digester treating buffalo manure for enhanced biogas yield. <i>Renewable Energy</i> , 2022, 181, 843-850.	8.9	8
65	Energy Dissipation and Electromagnetic Radiation Response of Sandstone Samples with a Pre-Existing Crack of Various Inclinations under an Impact Load. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1363.	2.0	8
66	An Efficient Power Management System Using Dynamically Configured Multiple Triboelectric Nanogenerators and Dual-Parameter Maximum Power Point Tracking. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	8
67	Prevalence and Treatment of Untypable HCV Variants in Different Districts of Punjab, Pakistan. <i>Viral Immunology</i> , 2018, 31, 426-432.	1.3	7
68	An inverse problem for a family of two parameters time fractional diffusion equations with nonlocal boundary conditions. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 7737-7748.	2.3	6
69	Isolation and Characterization of a Phage to Control Vancomycin Resistant <i>Enterococcus faecium</i> . <i>Open Life Sciences</i> , 2018, 13, 553-560.	1.4	6
70	Multisectoral approach to nutrition in Pakistan. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2019, 9, 152-163.	1.8	6
71	Numerical simulation of the morphological effect of rock joints in the processes of concentrating elastic strain energy: a direct shear study. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	6
72	Diisonitrile-Mediated Reactive Oxygen Species Accumulation Leads to Bacterial Growth Inhibition. <i>Journal of Natural Products</i> , 2020, 83, 1634-1640.	3.0	6

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73	Study on Acoustic Emission Characteristics and Mechanical Behavior of Water-Saturated Coal. Geofluids, 2021, 2021, 1-7.	0.7	6
74	First Report of <i>Papaya leaf curl virus</i> Associated with Leaf Curl Disease in <i>Cestrum nocturnum</i> in Pakistan. Plant Disease, 2020, 104, 3089.	1.4	5
75	Series Active Filter Design Based on Asymmetric Hybrid Modular Multilevel Converter for Traction System. Electronics (Switzerland), 2018, 7, 134.	3.1	4
76	Binder removal by a two-stage debinding process for powder injection molding Fe-50Ni alloy parts. Materials Research Express, 2019, 6, 0865e3.	1.6	4
77	Economic Diversification and Human Development in South Asia. Journal of Asian and African Studies, 2019, 54, 674-690.	1.5	4
78	Identification of the potential type 2 diabetes susceptibility genetic elements in South Asian populations. Meta Gene, 2020, 26, 100771.	0.6	4
79	Integrated analysis of Shank1 PDZ interactions with C-terminal and internal binding motifs. Current Research in Structural Biology, 2021, 3, 41-50.	2.2	4
80	Sanitation ladder and undernutrition among under-five children in Pakistan. Environmental Science and Pollution Research, 2021, 28, 38749-38763.	5.3	4
81	Adaptation and Codon-Usage Preference of Apple and Pear-Infecting Apple Stem Grooving Viruses. Microorganisms, 2021, 9, 1111.	3.6	4
82	Draft Genome Sequence of <i>Acinetobacter johnsonii</i> MB44, Exhibiting Nematicidal Activity against <i>Caenorhabditis elegans</i> . Genome Announcements, 2016, 4, .	0.8	3
83	High-throughput discovery of functional disordered regions. Molecular Systems Biology, 2018, 14, e8377.	7.2	3
84	Data-mining approach for screening of rare genetic elements associated with predisposition of prostate cancer in South-Asian populations. Biyokimya Dergisi, 2019, 44, 848-854.	0.5	3
85	Construction and application of a superplasmid for enhanced production of antibiotics. Applied Microbiology and Biotechnology, 2020, 104, 1647-1660.	3.6	3
86	Impact of exchange rate and its volatility on domestic consumption in India and Pakistan. Journal of Public Affairs, 0, , e2479.	3.1	3
87	Some inverse problems for time-fractional diffusion equation with nonlocal Samarskii-Clonkin type condition. Mathematical Methods in the Applied Sciences, 2021, 44, 8447-8462.	2.3	3
88	<i>Infundibulicybe macrospora</i> sp. nov., a new and noteworthy species from Himalayan moist temperate forests of Pakistan. Phytotaxa, 2020, 452, 268-277.	0.3	3
89	Inverse problem for a multi-parameters space-time fractional diffusion equation with nonlocal boundary conditions: operational calculus approach. Journal of Pseudo-Differential Operators and Applications, 2022, 13, 1.	0.7	3
90	Towards a coherent nomenclature of plant viruses. Virologica Sinica, 2016, 31, 197-198.	3.0	2

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91	Association of CTLA-4 polymorphisms and autoimmune type-1 diabetes mellitus susceptibility in Pakistani population. <i>Biyokimya Dergisi</i> , 2018, 43, 173-175.	0.5	2
92	Wheat genomics and genome editing. , 2020, , 331-346.		2
93	Prediction of putative epitope-based vaccine against all corona virus strains for the Chinese population: Approach toward development of vaccine. <i>Microbiology and Immunology</i> , 2021, 65, 154-160.	1.4	2
94	PHYLOGENETIC AND GENOME-WIDE PAIRWISE DISTANCE ANALYSIS OF THE GENUS LUTEOVIRUS. <i>Pakistan Journal of Agricultural Sciences</i> , 2017, 54, 363-371.	0.2	2
95	On the existence of bounded solutions to a class of nonlinear initial value problems with delay. <i>Filomat</i> , 2017, 31, 3125-3135.	0.5	2
96	Knowledge Spillovers Through FDI and Trade: The Moderating Role of Quality-Adjusted Human Capital. <i>Economic Complexity and Evolution</i> , 2017, , 357-391.	0.1	2
97	Financial Performance Analysis Based on Profitability Ratio (Study at PT Astra International Tbk Period) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	0.1	2
98	Evolution of industrial diversification and its determinants in West Germany: Evidence from population data of enterprises. <i>PLoS ONE</i> , 2021, 16, e0259352.	2.5	2
99	Kinetic Modeling of Endosulfan Degradation by Mixed Bacterial Culture. <i>Soil and Sediment Contamination</i> , 0, , 1-14.	1.9	1
100	The relationship between foreign aid and income inequality and the role of corruption. <i>Journal of Public Affairs</i> , 0, , e2687.	3.1	1
101	On the recovery of a time dependent diffusion coefficient for a space fractional diffusion equation. <i>Analysis and Mathematical Physics</i> , 2021, 11, 1.	1.3	1
102	Determinants of remittances by unskilled Pakistani migrant workers. <i>Asian and Pacific Migration Journal</i> , 0, , 011719682110418.	1.0	1
103	Maternal Determinants of Childhood Stunting. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020, , 19-36.	0.4	1
104	Cloning and Heterologous Expression of Hepatitis B Virus Pre-Surface Antigen 1. <i>Molecular Genetics, Microbiology and Virology</i> , 2020, 35, 112-116.	0.3	0
105	Fabrication of high magnetic performance Fe <sup>50</sup> Ni alloy by powder injection molding. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1557-1566.	4.7	0
106	Next-generation sequencing in bread wheat. , 2020, , 311-320.		0
107	The Effect of GDP Growth and Inflation on Changes in Stock Company Prices Listing on the IDX 2016-2018. <i>International Journal of Psychosocial Rehabilitation</i> , 2020, 24, 3468-3473.	0.1	0
108	TULP3 NLS inhibition: an <i>in silico</i> study to hamper cargo transport to nucleus. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, , 1-9.	3.5	0