

# Mohammad Ayaz Ahmad

## List of Publications by Year in descending order

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102  
papers

406  
citations

1040056

9  
h-index

888059

17  
g-index

106  
all docs

106  
docs citations

106  
times ranked

287  
citing authors

#	ARTICLE	IF	CITATIONS
1	RIXS, XES and XAS studies for electronic structure of rare earth and alkaline earth modified manganite. <i>Physica B: Condensed Matter</i> , 2022, 628, 413562.	2.7	2
2	Mathematical Modeling of Neutron Induced Fission of $^{237}\text{Np}$ Nucleus. <i>Ukrainian Journal of Physics</i> , 2022, 67, 11.	0.2	0
3	The Use of Natural Bee Products as Bioindicators of Environmental Pollution - The Detection of Heavy Metals. <i>Oriental Journal of Chemistry</i> , 2022, 38, 28-36.	0.3	1
4	Band dispersion and optical gain calculations of staggered type GaAs <sub>0.4Sb<sub>0.6</sub></sub> /In <sub>0.7Ga<sub>0.3</sub>As</sub> /GaAs <sub>0.4Sb<sub>0.6</sub></sub> nano-heterostructure under electric field and [100] strain. <i>Superlattices and Microstructures</i> , 2021, 150, 106694.	3.1	6
5	Some Aspects of Modeling in the Study of COVID-19 Data. <i>International Journal of Pharmaceutical Research (discontinued)</i> , 2021, 13, .	0.1	1
6	Characterization of three phase solid state VAR compensation scheme in three phase pulse width modulation voltage source inverter. <i>Journal of Physics: Conference Series</i> , 2021, 1781, 012034.	0.4	1
7	The Impact of COVID-19 Management Policies Tailored to Airborne SARS-CoV-2 Transmission: Policy Analysis. <i>JMIR Public Health and Surveillance</i> , 2021, 7, e20699.	2.6	23
8	Recognition of Voice Commands Based on Neural Network. <i>TEM Journal</i> , 2021, , 583-591.	0.7	6
9	Effect of temperature and composition of mixed solvent media on the interaction of bromocresol Green dye with cetylpyridinium chloride. <i>Molecular Physics</i> , 2021, 119, .	1.7	0
10	Some Interesting Features of Semantic Model in Robotic Science. <i>SSRG International Journal of Engineering Trends and Technology</i> , 2021, 69, 38-44.	0.5	2
11	Fine tunability of optical gain characteristics of InGaAs/GaAsSb/InAlAs nano-heterostructure under combined effect of field and temperature. <i>Superlattices and Microstructures</i> , 2021, 156, 106982.	3.1	5
12	Modern Walking Robots: A Brief Overview. <i>International Journal of Recent Technology and Applied Science</i> , 2021, 3, 32-39.	0.6	1
13	Investigation of high optical gain (MIR region) in AlSb/InAs/GaAsSb type-II quantum well heterostructure. <i>Results in Optics</i> , 2021, 5, 100138.	2.0	2
14	Operation of Circuit Breakers: Data and Analysis. <i>Multidisciplinary Journal for Education, Social and Technological Sciences</i> , 2021, 8, 60.	1.6	1
15	The Research of Image Classification Methods Based on the Introducing Cluster Representation Parameters for the Structural Description. <i>SSRG International Journal of Engineering Trends and Technology</i> , 2021, 69, 186-192.	0.5	4
16	Study of Angular Distribution and KNO Scaling in the Collisions of $^{28}\text{Si}$ with Emulsion Nuclei at 14.6A GeV. <i>Ukrainian Journal of Physics</i> , 2021, 57, 1205.	0.2	5
17	Free Amino Acid Profiles of Macedonian White Brined Cheese. <i>Asian Journal of Chemistry</i> , 2021, 33, 2989-2992.	0.3	0
18	Optical and electronic characteristics of ITO/NPB/Alq <sub>3</sub> :DCJTb/Alq <sub>3</sub> /Ag heterostructure based organic light emitting diode. <i>Optik</i> , 2020, 223, 165572.	2.9	20

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19	Polyphenols more than an Antioxidant: Role and Scope. Journal of Pure and Applied Microbiology, 2020, 14, 47-61.	0.9	13
20	Using Wavelet Analysis to Assess the Impact of COVID-19 on Changes in the Price of Basic Energy Resources. International Journal of Emerging Trends in Engineering Research, 2020, 8, 2907-2912.	0.2	13
21	Methods of Using Fuzzy Interval Logic During Processing of Space States of Complex Biophysical Objects. International Journal of Emerging Trends in Engineering Research, 2020, 8, 372-377.	0.2	2
22	Modification of Models Intensive Development Ontologies by Fuzzy Logic. International Journal of Emerging Trends in Engineering Research, 2020, 8, 939-944.	0.2	1
23	Some Features of Route Planning as the Basis in a Mobile Robot. International Journal of Emerging Trends in Engineering Research, 2020, 8, 2074-2079.	0.2	2
24	Interesting Applications of Mobile Robotic Motion by using Control Algorithms. International Journal of Advanced Trends in Computer Science and Engineering, 2020, 9, 3847-3852.	0.2	1
25	Prospects for Creating Sub-Millimeter Magnetrons. International Journal of Advanced Trends in Computer Science and Engineering, 2020, 9, 6184-6188.	0.2	1
26	Wavelet Coherence as a Tool for Markers Selection in the Diagnosis of Kidney Disease. International Journal of Emerging Trends in Engineering Research, 2020, 8, 378-383.	0.2	0
27	Chemical characterization of VARUMIN (1 and 2) oral solutions as potential therapeutic beverages. International Journal of Pharmaceutical Research (discontinued), 2020, 12, .	0.1	1
28	COVID-19 and Immune Function "A Significant Zinc. Oriental Journal of Chemistry, 2020, 36, 1026-1036.	0.3	14
29	Features of the Construction and Control of the Navigation System of a Mobile Robot. International Journal of Emerging Trends in Engineering Research, 2020, 8, 1445-1449.	0.2	1
30	Interactive Geoinformation Three-Dimensional Model of a Landscape Park Using Geoinformatics Tools. International Journal on Advanced Science, Engineering and Information Technology, 2020, 10, 2005-2013.	0.4	3
31	Fluctuations in produced charged particle multiplicities in relativistic nuclear collisions for simulated events. Journal of Physics: Conference Series, 2019, 1258, 012010.	0.4	0
32	Modeling the Structure of Intellectual Means of Decision-Making Using a System-Oriented NFO Approach. International Journal of Emerging Trends in Engineering Research, 2019, 7, 460-465.	0.2	5
33	Some Features of Non-Safety Costs in Maintenance of Work Equipments. International Journal of Science and Engineering Invention, 2019, 5, .	0.1	0
34	Computational Complexity of the Accessory Function Setting Mechanism in Fuzzy Intellectual Systems. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 8, 2370-2377.	0.2	2
35	An Advanced Methodology for Visualization of Changes in the Properties of a Dye. International Journal of Engineering and Advanced Technology, 2019, 9, 7111-7114.	0.3	2
36	Basic Principles of Decision Making upon Receipt of New Nanomaterial. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 8, 2680-2685.	0.2	0

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37	Some Features in Calculation of Mold Details for Plastic Products. International Journal of Emerging Trends in Engineering Research, 2019, 7, 720-724.	0.2	0
38	Some Aspects of Solid State Nuclear Track Detectors. , 2019, , .		0
39	Tools for the Production of Plastic Products. International Journal of Innovative Technology and Exploring Engineering, 2019, 9, 2102-2106.	0.3	0
40	An Updated Review of Pharmacological, Standardization Methods and Formulation Development of Rutin. Journal of Pure and Applied Microbiology, 2018, 12, 127-132.	0.9	5
41	Defects of Communication Pipes from Plastic in Modern Civil Engineering. International Journal of Mechanical and Production Engineering Research and Development, 2018, 8, 253-262.	0.1	0
42	Estimation of Caffeine Concentration in Decaffeinated Coffee and Tea Available in Pakistan. Journal of Pure and Applied Microbiology, 2018, 12, 229-247.	0.9	0
43	Overpopulation and Consequences of Environmental Pollution from Plastics Wastes. Dialogo, 2018, , .	0.1	0
44	Monitoring the Process of Gear Shaft Creating. SSRG International Journal of Engineering Trends and Technology, 2018, 64, 123-125.	0.5	0
45	Some Aspects of Simulations and Modeling in Relativistic Nuclear Collisions (&lt;i>Astro-Particle) Tj ETQq1 1 0.784314 rgBT /Overl 0.3	0.3	2
46	A success model and implementation on examining teacherâ€™s attitude in using frog virtual learning environment. , 2017, , .		1
47	Intermittency Approach in the Nuclear Collisions of 28Si + AgBr at 14.6A GeV - Nuclear Emulsion Experiment a Particle Detector. European Journal of Interdisciplinary Studies, 2017, 7, 127.	0.1	0
48	[done no pages] An overview on applications of guar gum in food systems to modify structural properties. Vestnik VoroneĴskogo Gosudarstvennogo Universiteta inĴenernyh Tehnologij, 2017, 79, 134-137.	0.3	1
49	Intermittency Approach in the Nuclear Collisions of 28Si + AgBr at 14.6A GeV - Nuclear Emulsion Experiment a Particle Detector. European Journal of Interdisciplinary Studies, 2017, 3, 127.	0.1	0
50	Study of Composite Materials for the Engineering using Wavelet Analysis and Image Processing Technology. International Journal of Mechanical and Production Engineering Research and Development, 2017, 7, 445-452.	0.1	1
51	Methodology of Wavelets in Relativistic Heavy Ion Collisions in One Dimensional Phase Space (&lt;i>Space). Journal of High Energy Physics Gravitation and Cosmology, 2017, 03, 254-266.	0.6	0
52	Study of Wavelet Methodology and Chaotic Behavior of Produced Particles in Different Phase Spaces of Relativistic Heavy Ion Collisions. Journal of Applied Mathematics and Physics, 2017, 05, 1130-1149.	0.4	3
53	Evolution of Thermo-mechanical Properties of Aluminium-Silicon Alloy (Al-1wt%Si). American Journal of Materials Synthesis and Processing, 2017, 2, 61.	0.4	1
54	Evolutionary Study of the Retinal Nerve Fiber Layer for the Patients with Glaucoma and Diabetes Mellitus. IOSR Journal of Pharmacy, 2017, 07, 34-38.	0.1	0

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55	Comparative study to explore factors affecting E-government ranking: the case of Malaysia, Nigeria and Republic of Korea. , 2017, , .		0
56	Multiplicity Fluctuations in Central Nuclear Reaction of Pb + AgBr Events at 158A GeV. , 2017, , .		0
57	Preliminary Phytochemical and Biological activities on <i>Russelia juncea</i> Zucc. Dialogo, 2017, , .	0.1	0
58	Analysis and simulation of industrial distillation processes using a graphical system design model. , 2016, , .		0
59	Multiplicity Characteristics of Forward-Backward Emitted Particles in Heavy-Ion Interactions at SPS Energies. Springer Proceedings in Physics, 2016, , 61-66.	0.2	1
60	Accession in <i>Centella asiatica</i> ; Current Understanding and Future Knowledge. Journal of Pure and Applied Microbiology, 2016, 10, 2485-2494.	0.9	6
61	Food Preservation by Hurdle Technology: A Review of Different Hurdle and Interaction with Focus on Foodstuffs. Journal of Pure and Applied Microbiology, 2016, 10, 2633-2639.	0.9	6
62	Slow Particle Production in Nucleus-Nucleus Collisions at Relativistic Energies. Journal of Modern Physics, 2016, 07, 51-64.	0.6	1
63	Synthesis of Alumina Fibre by Annealing Method Using Coir Fibre. American Chemical Science Journal, 2016, 15, 1-7.	0.2	0
64	Wavelet Coherence as a Research Tool for Stability of the Banking System (The Example of Ukraine). Modern Economy, 2016, 07, 955-965.	0.5	0
65	Soild-Liquid Extraction Kinetics of Total Phenolic, Total Flavonoid, Rutin and Tannin Contents in 50% Ethanol Extract of <i>Cotinus coggygria</i> . International Journal of Scientific and Engineering Research, 2016, 7, 1466-1472.	0.1	4
66	Quality Engineering Tools Focused on Designing Remote Temperature Measurements for Inaccessible Locations by Using Light Components Parameterization of the Heated Materials. IOP Conference Series: Materials Science and Engineering, 2016, 133, 012059.	0.6	0
67	Basmak â€œ A New Type of Tobacco in the Balkans. IOSR Journal of Agriculture and Veterinary Science, 2016, 09, 12-17.	0.1	1
68	Some Aspects of Multi-Particle Productions in Relativistic Nuclear Collisions. Dialogo, 2016, , .	0.1	2
69	The Dependence of Average Multiplicity of Produced Charged Particles on Interacting Projectile Nucleons in Nuclear Collisions. Dialogo, 2016, , .	0.1	1
70	Signal of unusual large fluctuations in 32S-Em interactions at SPS energies. Journal of the Korean Physical Society, 2015, 67, 448-457.	0.7	6
71	Synchronization and circuit design of a chaotic system with coexisting hidden attractors. European Physical Journal: Special Topics, 2015, 224, 1637-1652.	2.6	76
72	Multifractal study and multifractal specific heat of singly charged particles produced in 32Sâ€™Em interactions at 200 AGeV. Chaos, Solitons and Fractals, 2015, 81, 197-202.	5.1	8

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73	Recurent Neural Network as a Tool for Parameter Anomaly Detection in Thermal Power Plant. International Journal of Scientific and Engineering Research, 2015, 6, 448-455.	0.1	4
74	Some Effect of Chemical Treatment by Ferric Nitrate Salts on the Structure and Morphology of Coir Fibre Composites. Advances in Materials Physics and Chemistry, 2015, 05, 39-45.	0.7	3
75	Some Important Features of Relativistic Charged Particles Produced in $^{32}\text{S}$ -Emulsion Interactions at 200 AGeV/c. Journal of Modern Physics, 2015, 06, 1498-1509.	0.6	3
76	Properties of wavelet coefficients of self-similar time series. International Journal of Scientific and Engineering Research, 2015, 6, 1492-1499.	0.1	6
77	Study of Compound Particle Production in $^{28}\text{Si}$ and $^{32}\text{S}$ -Emulsion Collisions at 14.6 and 200 AGeV. World Journal of Nuclear Science and Technology, 2015, 05, 208-220.	0.3	3
78	Bank Lending Efficiency in the Real Sector of the Economy of Ukraine within the Period of 2011 to 2014 Years. Modern Economy, 2015, 06, 1209-1218.	0.5	2
79	Artificial Neural Networking Model an Approach for the Coagulation Properties of Milk. International Journal of Scientific and Engineering Research, 2015, 6, 1117-1121.	0.1	1
80	Methodology of Correlation Analysis in Solution of a Problem of Normalization of Projective Image Transformations. International Journal of Scientific and Engineering Research, 2015, 6, 249-255.	0.1	0
81	Study of Deconfinement Phase Transition in Heavy Ion Collisions at BNL Energies. International Journal of Applied Physics and Mathematics, 2013, , 289-292.	0.3	2
82	Scaling Nature of Target Fragments in the $^{28}\text{Si}$ -Emulsion Interaction at an Energy of 14.6A GeV. Ukrainian Journal of Physics, 2013, 58, 944-955.	0.2	2
83	Intermittent and scaling behaviour of shower particles produced in the collisions of $^{28}\text{Si}$ -Em at 14.6A GeV. Indian Journal of Physics, 2010, 84, 1675-1681.	1.8	8
84	CHARGED MULTIPLICITY DISTRIBUTION IN RELATIVISTIC HEAVY-ION COLLISIONS. International Journal of Modern Physics E, 2009, 18, 1929-1944.	1.0	20
85	STUDY OF NON-THERMAL PHASE TRANSITION IN $^{28}\text{Si}$ -NUCLEUS COLLISIONS AT 14.6 A GeV. International Journal of Modern Physics E, 2007, 16, 2241-2247.	1.0	6
86	Study of Levy stability and intermittent behaviour in $^{28}\text{Si}$ -emulsion collisions at. Nuclear Physics A, 2007, 789, 298-310.	1.5	8
87	Study of Non-Statistical Fluctuations in Relativistic Nuclear Collisions. Journal of the Physical Society of Japan, 2006, 75, 064604.	1.6	9
88	Some observations related to intermittency and multifractality in $^{28}\text{Si}$ and $^{12}\text{C}$ -nucleus collisions at. Nuclear Physics A, 2006, 780, 206-221.	1.5	19
89	A comparative study of multifractal moments in relativistic heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 1279-1293.	3.6	20
90	CLUSTER SIZE DEPENDENCE ON RELATIVISTIC CHARGED PARTICLE MULTIPLICITY IN NUCLEUS-NUCLEUS COLLISIONS. International Journal of Modern Physics E, 2005, 14, 569-577.	1.0	2

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91	A potentially low-cost adsorbent for Methylene Blue removal from synthetic wastewater. , 0, 213, 431-440.		4
92	Corrigendum to " A potentially low-cost adsorbent for methylene blue removal from synthetic wastewater " published in vol. 213 (2021) 431-440 (doi:10.5004/dwt.2021.26732). , 0, 214, 454-454.		0
93	Some aspects of fluctuations dynamics of particles in dusty plasma. Communications in Mathematical Biology and Neuroscience, 0, , .	0.0	0
94	Signature of intermittency during emission of target associated particles in heavy ion collisions at SPS energies. Journal of Mathematical and Computational Science (discontinued), 0, , .	0.0	0
95	The Assembly of the Mixture of Two Ionic Surfactants in Polyols Media at Variable Temperatures: Combined Conductivity and Theoretical Investigations. Journal of Surfactants and Detergents, 0, , .	2.1	0
96	The nuclear effect analysis in relativistic heavy ion collisions at BNL energies. Journal of Mathematical and Computational Science (discontinued), 0, , .	0.0	0
97	Development of a cyber design modeling declarative Language for cyber physical production systems. Journal of Mathematical and Computational Science (discontinued), 0, , .	0.0	3
98	Enhance the adsorption behavior of methylene blue from wastewater by using ZnCl <sub>2</sub> modified neem (Azadirachta indica) leaves powder. , 0, 209, 367-378.		5
99	Some Features of Doping of Nanoâ€“Graphite in Natural Coir Fibre Epoxy Composites. European Journal of Science and Technology, 0, , 491-498.	0.5	6
100	Mixed Factorial Moments in the Nuclear Collisions of <sup>28</sup> Si AgBr at 14.6A GeV. SSRN Electronic Journal, 0, , .	0.4	0
101	Some Aspects of Future Energy Generation in Using of Solar Power Satellites. International Journal of Analysis and Applications, 0, , .	0.4	1
102	An effective energy saving design strategy to maximize the use of electricity. Journal of Mathematical and Computational Science (discontinued), 0, , .	0.0	1