Sher Afzal Khan

List of Publications by Year
in descending order

71 papers	1,914 citations	201674 27 h-index	265206 42 g-index
73 all docs	73 docs citations	73 times ranked	914 citing authors

#	Article	IF	Citations
1	SPrenylC-PseAAC: A sequence-based model developed via Chou's 5-steps rule and general PseAAC for identifying S-prenylation sites in proteins. Journal of Theoretical Biology, 2019, 468, 1-11.	1.7	115
2	iPhosT-PseAAC: Identify phosphothreonine sites by incorporating sequence statistical moments into PseAAC. Analytical Biochemistry, 2018, 550, 109-116.	2.4	111
3	SPalmitoylC-PseAAC: A sequence-based model developed via Chou's 5-steps rule and general PseAAC for identifying S-palmitoylation sites in proteins. Analytical Biochemistry, 2019, 568, 14-23.	2.4	105
4	Unb-DPC: Identify mycobacterial membrane protein types by incorporating un-biased dipeptide composition into Chou's general PseAAC. Journal of Theoretical Biology, 2017, 415, 13-19.	1.7	98
5	A Novel Modeling in Mathematical Biology for Classification of Signal Peptides. Scientific Reports, 2018, 8, 1039.	3.3	70
6	iPhosH-PseAAC: Identify Phosphohistidine Sites in Proteins by Blending Statistical Moments and Position Relative Features According to the Chou's 5-Step Rule and General Pseudo Amino Acid Composition. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 596-610.	3.0	70
7	pSSbond-PseAAC: Prediction of disulfide bonding sites by integration of PseAAC and statistical moments. Journal of Theoretical Biology, 2019, 463, 47-55.	1.7	68
8	A Two-Level Computation Model Based on Deep Learning Algorithm for Identification of piRNA and Their Functions via Chouâ€™s 5-Steps Rule. International Journal of Peptide Research and Therapeutics, 2020, 26, 795-809.	1.9	62
9	A New Approach to Fuzzy TOPSIS Method Based on Entropy Measure under Spherical Fuzzy Information. Entropy, 2019, 21, 1231.	2.2	58
10	iPhosY-PseAAC: identify phosphotyrosine sites by incorporating sequence statistical moments into PseAAC. Molecular Biology Reports, 2018, 45, 2501-2509.	2.3	57
11	A Prediction Model for Membrane Proteins Using Moments Based Features. BioMed Research International, 2016, 2016, 1-7.	1.9	56
12	Iris Recognition Using Image Moments and k-Means Algorithm. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	54
13	iNuc-ext-PseTNC: an efficient ensemble model for identification of nucleosome positioning by extending the concept of Chouâ€™s PseAAC to pseudo-tri-nucleotide composition. Molecular Genetics and Genomics, 2019, 294, 199-210.	2.1	52
14	Situation recognition using image moments and recurrent neural networks. Neural Computing and Applications, 2014, 24, 1519-1529.	5.6	48
15	iHyd-PseAAC (EPSV): Identifying Hydroxylation Sites in Proteins by Extracting Enhanced Position and Sequence Variant Feature via Chou's 5- Step Rule and General Pseudo Amino Acid Composition. Current Genomics, 2019, 20, 124-133.	1.6	46
16	pNitro-Tyr-PseAAC: Predict Nitrotyrosine Sites in Proteins by Incorporating Five Features into Chouâ€™s General PseAAC. Current Pharmaceutical Design, 2019, 24, 4034-4043.	1.9	45
17	iSulfoTyr-PseAAC: Identify Tyrosine Sulfation Sites by Incorporating Statistical Moments via Chouâ€™s 5-steps Rule and Pseudo Components. Current Genomics, 2019, 20, 306-320.	1.6	45
18	Student-Performulator: Student Academic Performance Using Hybrid Deep Neural Network. Sustainability, 2021, 13, 9775.	3.2	42

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19	iMethylK-PseAAC: Improving Accuracy of Lysine Methylation Sites Identification by Incorporating Statistical Moments and Position Relative Features into General PseAAC via Chou's 5-steps Rule. Current Genomics, 2019, 20, 275-292.	1.6	42
20	iProtease-PseAAC(2L): A two-layer predictor for identifying proteases and their types using Chou's 5-step-rule and general PseAAC. Analytical Biochemistry, 2020, 588, 113477.	2.4	36
21	Classification of Poetry Text Into the Emotional States Using Deep Learning Technique. IEEE Access, 2020, 8, 73865-73878.	4.2	36
22	Prediction of protein structure classes using hybrid space of multi-profile Bayes and bi-gram probability feature spaces. Journal of Theoretical Biology, 2014, 346, 8-15.	1.7	35
23	Global dynamics of SEIRS epidemic model with non-linear generalized incidences and preventive vaccination. Advances in Difference Equations, 2015, 2015, .	3.5	34
24	Prediction of Nitrosocysteine Sites Using Position and Composition Variant Features. Letters in Organic Chemistry, 2019, 16, 283-293.	0.5	34
25	Using CHOU'S 5-Steps Rule to Predict O-Linked Serine Glycosylation Sites by Blending Position Relative Features and Statistical Moment. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2045-2056.	3.0	30
26	Some Janowski Type Harmonic q-Starlike Functions Associated with Symmetrical Points. Mathematics, 2020, 8, 629.	2.2	29
27	An Evaluation Framework and Comparative Analysis of the Widely Used First Programming Languages. PLoS ONE, 2014, 9, e88941.	2.5	27
28	An Efficient Algorithm for Recognition of Human Actions. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	27
29	Specification and verification of safety properties along a crossing region in a railway network control. Applied Mathematical Modelling, 2013, 37, 5162-5170.	4.2	25
30	CONTROL STRATEGIES of HEPATITIS B WITH THREE CONTROL VARIABLES. Journal of Biological Systems, 2018, 26, 1-21.	1.4	25
31	Software Component Selection Based on Quality Criteria Using the Analytic Network Process. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.7	23
32	DBP-GAPred: An intelligent method for prediction of DNA-binding proteins types by enhanced evolutionary profile features with ensemble learning. Journal of Bioinformatics and Computational Biology, 2021, 19, 2150018.	0.8	20
33	Prediction of piRNAs and their function based on discriminative intelligent model using hybrid features into Chou's PseKNC. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104056.	3.5	20
34	Formal analysis of departure procedure of air traffic control system. , 2010, , .		18
35	A Two-Layer Computational Model for Discrimination of Enhancer and Their Types Using Hybrid Features Pace of Pseudo K-Tuple Nucleotide Composition. Arabian Journal for Science and Engineering, 2018, 43, 6719-6727.	3.0	18
36	N-MyristoylG-PseAAC: Sequence-based Prediction of N-Myristoyl Glycine Sites in Proteins by Integration of PseAAC and Statistical Moments. Letters in Organic Chemistry, 2019, 16, 226-234.	0.5	18

#	ARTICLE	IF	CITATIONS
37	Extending Petri net to reduce control strategies of railway interlocking system. Applied Mathematical Modelling, 2014, 38, 413-424.	4.2	17
38	Analysis of Decision Support System Based on 2-Tuple Spherical Fuzzy Linguistic Aggregation Information. Applied Sciences (Switzerland), 2020, 10, 276.	2.5	17
39	Mathematical Modeling towards the Dynamical Interaction of Leptospirosis. Applied Mathematics and Information Sciences, 2014, 8, 1049-1056.	0.5	17
40	Bi-PSSM: Position specific scoring matrix based intelligent computational model for identification of mycobacterial membrane proteins. Journal of Theoretical Biology, 2017, 435, 116-124.	1.7	16
41	Module-based architecture for a periodic job-shop scheduling problem. Computers and Mathematics With Applications, 2012, 64, 1-10.	2.7	14
42	Global Stability of Vector-Host Disease with Variable Population Size. BioMed Research International, 2013, 2013, 1-9.	1.9	12
43	A Novel Rules Based Approach for Estimating Software Birthmark. Scientific World Journal, The, 2015, 2015, 1-8.	2.1	12
44	Modeling and analysis of departure routine in air traffic control based on Petri nets. Neural Computing and Applications, 2014, 25, 1099-1109.	5.6	10
45	Petri net-based modeling and control of the multi-elevator systems. Neural Computing and Applications, 2014, 24, 1601-1612.	5.6	10
46	iPhosD-PseAAC: Identification of phosphoaspartate sites in proteins using statistical moments and PseAAC. Biocell, 2021, 45, 1287-1298.	0.7	9
47	Lift and Drainage of Electrically Conducting Power Law Fluid on a Vertical Cylinder. Applied Mathematics and Information Sciences, 2014, 8, 45-55.	0.5	9
48	Content-based image retrieval using extroverted semantics: a probabilistic approach. Neural Computing and Applications, 2014, 24, 1735-1748.	5.6	8
49	DNAPred_Prot: Identification of DNA-Binding Proteins Using Composition- and Position-Based Features. Applied Bionics and Biomechanics, 2022, 2022, 1-17.	1.1	8
50	Prevention of Leptospirosis Infected Vector and Human Population by Multiple Control Variables. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	6
51	Coloured Petri Net modeling and analysis for Community based wireless mesh networks. , 2014, , .		6
52	iTAGPred: A Two-Level Prediction Model for Identification of Angiogenesis and Tumor Angiogenesis Biomarkers. Applied Bionics and Biomechanics, 2021, 2021, 1-15.	1.1	6
53	Unsteady Drainage of Electrically Conducting Power Law Fluid. Applied Mathematics and Information Sciences, 2014, 8, 2287-2296.	0.5	6
54	Formal and Executable Specification of Random Waypoint Mobility Model Using Timed Coloured Petri Nets for WMN. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	4

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55	Formal Verification and Validation of Aircraft Departure Process in Air Traffic Control System Using VDM++. International Journal of Engineering and Technology, 2012, 4, 755-759.	0.2	4
56	iAcetyâ€"SmRF: Identification of Acetylation Protein by Using Statistical Moments and Random Forest. Membranes, 2022, 12, 265.	3.0	4
57	Towards the formalization of railway interlocking system using Z-notations. , 2009, , .		3
58	Reducing Flooding of Zone Routing Protocol in Mobile Ad-Hoc Networks. VAWKUM Transactions on Computer Sciences, 2016, 9, 8.	0.3	3
59	SHER: A Colored Petri Net Based Random Mobility Model for Wireless Communications. PLoS ONE, 2015, 10, e0133634.	2.5	2
60	Delay and throughput performance improvement in wireless sensor and actor networks. , 2015, , .		2
61	Component Based Architecture for the Control of Crossing Regions in Railway Networks. , 2017, , .		2
62	Extending promotion to operate controller based on trainâ€™s operation. African Journal of Business Management, 2011, 6, .	0.5	2
63	Formal modeling of ATC signals using Z notation. , 2012, , .		1
64	Z Specification of Gate and Apron Control Management at Airport. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	1
65	Performance improvement in wireless sensor and actor networks based on actor repositioning. , 2015, , .		1
66	xCorrection to â€œClassification of Poetry Text Into the Emotional States Using Deep Learning Techniqueâ€. IEEE Access, 2020, 8, 222255-222255.	4.2	1
67	Perturbation Methods and Formal Modeling for Dynamic Systems. Abstract and Applied Analysis, 2015, 2015, 1-2.	0.7	0
68	Modeling and Simulation of Community Mobility Model for Next Generation Wireless Networks Using Coloured Petri Nets. , 2015, , .		0
69	Pattern Recognition in Bioinformatics. BioMed Research International, 2016, 2016, 1-2.	1.9	0
70	A Mobile-Agent Environment for Service Oriented System using Strong Mobility. VFAST Transactions on Software Engineering, 2015, 8, 10.	0.0	0
71	Minimizing Denial of Service Attack for Multiple Base Stations in Wireless Sensor Network. VFAST Transactions on Software Engineering, 2016, 11, .	0.0	0