

# Mahyuddin K M Nasution

## List of Publications by Year in descending order

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Version: 2024-02-01

128  
papers

784  
citations

949033

11  
h-index

993246

17  
g-index

142  
all docs

142  
docs citations

142  
times ranked

206  
citing authors

#	ARTICLE	IF	CITATIONS
1	The feasibility of friction stir spot extrusion-brazing of AA5083-H112 aluminum alloy to brass sheets with Zn interlayer. <i>Materials Letters</i> , 2022, 308, 131084.	1.3	5
2	Numerical investigation of water forced convection inside a copper metal foam tube: Genetic algorithm (GA) based fuzzy inference system (GAFIS) contribution with CFD modeling. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 122016.	2.5	11
3	Modeling and computational simulation for supersonic flutter prediction of polymer/GNP/fiber laminated composite joined conical-conical shells. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103460.	2.3	19
4	An experimental investigation on mechanical properties of Fe <sub>2</sub> O <sub>3</sub> microparticles reinforced polypropylene. <i>Journal of Materials Research and Technology</i> , 2022, 16, 229-237.	2.6	12
5	The influence of the backing plate materials on microstructure and mechanical properties of friction spot extrusion brazing of AA2024-T3 aluminum alloy and Brass sheets. <i>Journal of Manufacturing Processes</i> , 2022, 74, 28-39.	2.8	14
6	A new design for programmable logic array based on QCA-based nanotechnology. <i>Optik</i> , 2022, 253, 168581.	1.4	8
7	Various types of electrochemical biosensors for leukemia detection and therapeutic approaches. <i>Analytical Biochemistry</i> , 2022, 654, 114736.	1.1	47
8	Reproving the basic principles of fuzzy sets for the decisions. <i>Journal of Physics: Conference Series</i> , 2021, 1783, 012096.	0.3	0
9	From recursive to dynamic: An algorithm for dealing with a problem. <i>Journal of Physics: Conference Series</i> , 2021, 1783, 012099.	0.3	1
10	Industry 4.0: Data science perspective. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1122, 012037.	0.3	1
11	Development of teaching materials based on learning video using movavi education set at Yayasan Perguruan Tunas Karya Batang Kuis. <i>Abdimas Talenta</i> , 2021, 6, 16-21.	0.0	0
12	Social Network Extraction Unsupervised. <i>Turkish Journal of Computer and Mathematics Education</i> , 2021, 12, 4443-4449.	0.4	1
13	Data science: A Review towards the Big Data Problems. <i>Journal of Physics: Conference Series</i> , 2021, 1898, 012006.	0.3	2
14	Social network extraction based on Web: A Review about Supervised Methods. <i>Journal of Physics: Conference Series</i> , 2021, 1898, 012046.	0.3	1
15	Sensitivity of MAPE using detection rate for big data forecasting crude palm oil on k-nearest neighbor. <i>International Journal of Electrical and Computer Engineering</i> , 2021, 11, 2696.	0.5	4
16	Sustainable Learning Environment by Mobile-Assisted Language Learning Methods on the Improvement of Productive and Receptive Foreign Language Skills: A Comparative Study for Asian Universities. <i>Sustainability</i> , 2021, 13, 6328.	1.6	16
17	Investigation of modified friction stir clinching-brazing process of AA2024 Al/AZ31 Mg: metallurgical and mechanical properties. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	9
18	A deep insight into CRISPR/Cas9 application in CAR-T cell-based tumor immunotherapies. <i>Stem Cell Research and Therapy</i> , 2021, 12, 428.	2.4	63

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19	Sensitivity of shortest distance search in the ant colony algorithm with varying normalized distance formulas. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2021, 19, 1251.	0.6	1
20	The Effect of Structural Phase Transitions on Electronic and Optical Properties of CsPbI <sub>3</sub> Pure Inorganic Perovskites. <i>Coatings</i> , 2021, 11, 1173.	1.2	5
21	Forecasting Daily Electricity Price by Hybrid Model of Fractional Wavelet Transform, Feature Selection, Support Vector Machine and Optimization Algorithm. <i>Electronics (Switzerland)</i> , 2021, 10, 2214.	1.8	6
22	Modeling and Optimization of Wind Turbines in Wind Farms for Solving Multi-Objective Reactive Power Dispatch Using a New Hybrid Scheme. <i>Energies</i> , 2021, 14, 5919.	1.6	4
23	New lump and interaction soliton, N-soliton solutions and the LSP for the $(3\hat{A}+\hat{A}1)$ -D potential-YTSF-like equation. <i>Results in Physics</i> , 2021, 29, 104713.	2.0	10
24	Carbon dioxide-based enhanced oil recovery methods to evaluate tight oil reservoirs productivity: A laboratory perspective coupled with geo-sequestration feature. <i>Energy Reports</i> , 2021, 7, 4697-4704.	2.5	9
25	Multiple soliton solutions of the generalized Hirota-Satsuma-Ito equation arising in shallow water wave. <i>Journal of Geometry and Physics</i> , 2021, 170, 104338.	0.7	21
26	Numerical investigation of nanofluid flow using CFD and fuzzy-based particle swarm optimization. <i>Scientific Reports</i> , 2021, 11, 20973.	1.6	8
27	The improvement of mechanical properties of conventional concretes using carbon nanoparticles using molecular dynamics simulation. <i>Scientific Reports</i> , 2021, 11, 20265.	1.6	6
28	A Laboratory Approach to Measure Enhanced Gas Recovery from a Tight Gas Reservoir during Supercritical Carbon Dioxide Injection. <i>Sustainability</i> , 2021, 13, 11606.	1.6	11
29	Diffusion brazing of IN738 to SiC ceramic with Ag-Cu-Ti powder: Effect of bonding time on metallurgical and mechanical properties. <i>Results in Physics</i> , 2021, 31, 104956.	2.0	5
30	A Comprehensive Thermo-economic Evaluation and Multi-Criteria Optimization of a Combined MCFC/TEG System. <i>Sustainability</i> , 2021, 13, 13187.	1.6	0
31	Troubleshooting Customer Behaviour Against Merchants with Adaptive Multivariate Regression. <i>Webology</i> , 2021, 18, 462-474.	0.3	0
32	Social Network Analysis: Towards Complexity Problem. <i>Webology</i> , 2021, 18, 449-461.	0.3	1
33	Mathematic. <i>Journal of Physics: Conference Series</i> , 2020, 1566, 012030.	0.3	1
34	A computation in the braid group. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 725, 012101.	0.3	2
35	Social network extraction based on Web: 4. A framework. <i>Journal of Physics: Conference Series</i> , 2020, 1566, 012029.	0.3	1
36	Level of student satisfaction on lecturer performance with fuzzy inference system (FIS) tsukamoto method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 725, 012130.	0.3	0

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37	Comparison of the social network weight measurements. IOP Conference Series: Materials Science and Engineering, 2020, 725, 012094.	0.3	1
38	Optimization Metrics Model: The Mobile Wallet for Merchant Ecosystem. Journal of Physics: Conference Series, 2020, 1566, 012124.	0.3	3
39	A similarity for new meanings. , 2020, , .		1
40	Performance Knowledge Acceleration Optimization with MARS to Customer Behavior in Merchant Ecosystem. , 2020, , .		2
41	Obtaining Value From The Constraints in Finding User Habitual Words. , 2020, , .		3
42	Hybrid cryptosystem multi-power RSA with $N=PmQ$ and VMPC. IOP Conference Series: Materials Science and Engineering, 2020, 725, 012129.	0.3	0
43	Similarity Approach Based to Customer Behavior for Trade Business Metrics. Journal of Physics: Conference Series, 2020, 1641, 012053.	0.3	1
44	Without research, no community service. Journal of Physics: Conference Series, 2020, 1542, 012071.	0.3	3
45	Research serendipity: A challenge for changing. Journal of Physics: Conference Series, 2020, 1542, 012072.	0.3	2
46	Identification of Tuberculosis (TB) Disease Based on Lung X-Rays using Extreme Learning Machine. Journal of Physics: Conference Series, 2020, 1566, 012085.	0.3	1
47	Data Science. Journal of Physics: Conference Series, 2020, 1566, 012034.	0.3	8
48	Combination of 3des with dct algorithm in message security. IOP Conference Series: Materials Science and Engineering, 2020, 725, 012136.	0.3	0
49	Enhanced Knowledge Acceleration Estimator Optimally with MARS to Business Metrics in Merchant Ecosystem. , 2020, , .		2
50	Optimization Model Under Uncertainty for Competitive Merchant to Customer Behavior in Financial Technology Using Business Metrics. Journal of Computational and Theoretical Nanoscience, 2020, 17, 3264-3270.	0.4	1
51	Data Science Around the Indexed Literature Perspective. Advances in Intelligent Systems and Computing, 2020, , 1051-1065.	0.5	1
52	Multi-criteria as decisions. IOP Conference Series: Materials Science and Engineering, 2020, 1003, 012118.	0.3	3
53	The birth of a science. History of Science and Technology, 2020, 10, 315-338.	0.3	7
54	Industry 4.0. IOP Conference Series: Materials Science and Engineering, 2020, 1003, 012145.	0.3	6

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55	A method for constructing a dataset to reveal the industrial behaviour of big data. IOP Conference Series: Materials Science and Engineering, 2020, 1003, 012156.	0.3	3
56	Clustering Large DataSet™ to Prediction Business Metrics. Advances in Intelligent Systems and Computing, 2020, , 1117-1127.	0.5	2
57	Analysis of the Sw-420 Vibration Sensor Performance on Vibration Tools by using a Fuzzy Logic Method. , 2020, , .		1
58	A Method to Prove the Existence of a Similarity. Advances in Intelligent Systems and Computing, 2020, , 243-252.	0.5	1
59	A Framework of Utilizing Big Data of Social Media to Find Out the Habits of Users Using Keyword. , 2020, , .		9
60	Taxonomy Business Model to Customer Behaviour in E-Metric Ecosystem. Journal of Advanced Research in Dynamical and Control Systems, 2020, 12, 99-104.	0.3	3
61	Mathematical Philosophy. Journal of Research in Mathematics Trends and Technology, 2020, 2, 45-60.	0.1	4
62	Design of the research problem statement. Journal of Physics: Conference Series, 2019, 1235, 012115.	0.3	5
63	Modification of chipertext Elgamal algorithm using split merge. Journal of Physics: Conference Series, 2019, 1235, 012054.	0.3	0
64	Forensic in information technology: A redefinition. Journal of Physics: Conference Series, 2019, 1235, 012106.	0.3	1
65	Period length optimization linear feedback shift register by adopting bistable multivibrator. Journal of Physics: Conference Series, 2019, 1230, 012001.	0.3	1
66	A framework for mining the university student behaviour based on social network. Journal of Physics: Conference Series, 2019, 1235, 012017.	0.3	0
67	Social Network Mining: A discussion. Journal of Physics: Conference Series, 2019, 1235, 012111.	0.3	4
68	A semantic interpretations of citation as assumptions. Journal of Physics: Conference Series, 2019, 1235, 012112.	0.3	0
69	The Excellent Center: Center for Artificial Intelligence Technology. Journal of Physics: Conference Series, 2019, 1235, 012114.	0.3	1
70	Information Retrieval Optimization Based on Tree of Social Network. IOP Conference Series: Materials Science and Engineering, 2019, 505, 012099.	0.3	5
71	Perceptron Partition Model to Minimize Input Matrix. IOP Conference Series: Materials Science and Engineering, 2019, 536, 012135.	0.3	2
72	Enhancement of OTP stream cipher algorithm based on bit separation. Journal of Physics: Conference Series, 2019, 1339, 012010.	0.3	0

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73	Performance Test of Parallel Image Processing Using Open MPI on Raspberry PI Cluster Board. , 2019, , .		5
74	Some Vector Valued Sequence Spaces Generated by Musielak-Phy Function Over 2-Normed Spaces. Journal of Research in Mathematics Trends and Technology, 2019, 1, 50-55.	0.1	0
75	Environmentally healthy sleep light. Abdimas Talenta, 2019, 4, 274-280.	0.0	0
76	Mapping of medicine data with k-means and apriori combinations based on patient diagnosis. Journal of Physics: Conference Series, 2018, 978, 012027.	0.3	4
77	Information Retrieval Based on the Extracted Social Network. Advances in Intelligent Systems and Computing, 2018, , 220-226.	0.5	10
78	Some Characterizations of Riesz-Valued Sequence Spaces Generated by an Order $\dot{\iota}$ -Function. Numerical Functional Analysis and Optimization, 2018, 39, 38-46.	0.6	1
79	Talenta. Journal of Physics: Conference Series, 2018, 1116, 022033.	0.3	7
80	The uncertainty: A history in Mathematics. Journal of Physics: Conference Series, 2018, 1116, 022031.	0.3	10
81	Fuzzy braid group: A concept. Journal of Physics: Conference Series, 2018, 1116, 022032.	0.3	2
82	Doubleton: A Role of the Search Engine to Reveal the Existence of Relation in Information Space. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012138.	0.3	6
83	Triangle Number of Laurent polynomial for the closed braids $\dot{\iota}f2j$ . IOP Conference Series: Materials Science and Engineering, 2018, 300, 012070.	0.3	4
84	Social network extraction based on web: 2. Strategies in superficial methods. Journal of Physics: Conference Series, 2018, 1116, 022029.	0.3	4
85	The steganographic video analysis uses combination of discrete cosine transform and discrete wavelet transform algorithms. Journal of Physics: Conference Series, 2018, 1116, 022046.	0.3	1
86	Social network extraction based on Web: 3. the integrated superficial method. Journal of Physics: Conference Series, 2018, 978, 012033.	0.3	3
87	Real-time detection with AdaBoost-svm combination in various face orientation. Journal of Physics: Conference Series, 2018, 978, 012015.	0.3	0
88	Information Retrieval on social network: An Adaptive Proof. IOP Conference Series: Materials Science and Engineering, 2018, 300, 012055.	0.3	13
89	Modeling reliability measurement of interface on information system: Towards the forensic of rules. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012042.	0.3	7
90	SumutSiana. IOP Conference Series: Materials Science and Engineering, 2018, 309, 012131.	0.3	6

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91	Redefining the magic square on numerical characters. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012033.	0.3	4
92	Singleton: A Role of the Search Engine to Reveal the Existence of Something in Information Space. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012137.	0.3	5
93	The braid group: redefining. MATEC Web of Conferences, 2018, 197, 01005.	0.1	3
94	The concept of free group based on braid group. Journal of Physics: Conference Series, 2018, 1116, 022034.	0.3	1
95	Indonesia knowledge dissemination: a snapshot. Journal of Physics: Conference Series, 2018, 978, 012012.	0.3	3
96	No research without publication: early mining. Journal of Physics: Conference Series, 2018, 978, 012063.	0.3	4
97	Natural language processing to waterwheel with Jawa language. Journal of Physics: Conference Series, 2018, 1116, 022007.	0.3	1
98	Enhancing to method for extracting Social network by the relation existence. IOP Conference Series: Materials Science and Engineering, 2018, 300, 012057.	0.3	8
99	Reliability enumeration model for the gear in a multi-functional machine. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012019.	0.3	1
100	Design and architecture of retailapp: an application to support conventional retailers. Journal of Physics: Conference Series, 2018, 978, 012070.	0.3	1
101	Semantic interpretation of search engine resultant. IOP Conference Series: Materials Science and Engineering, 2018, 300, 012053.	0.3	11
102	Social network extraction based on Web: 1. Related superficial methods. IOP Conference Series: Materials Science and Engineering, 2018, 300, 012056.	0.3	10
103	Research mapping in North Sumatra based on Scopus. IOP Conference Series: Materials Science and Engineering, 2018, 309, 012130.	0.3	7
104	Basic framework of urban design based on natural resources. IOP Conference Series: Earth and Environmental Science, 2018, 126, 012210.	0.2	3
105	Calligraphy design for coconut garbage use. IOP Conference Series: Earth and Environmental Science, 2018, 126, 012098.	0.2	1
106	Uncertainty Ontology for Module Rules Formation Waterwheel Control. Scientific Journal of Informatics, 2018, 5, 66.	0.5	0
107	Enhancing Performance of Parallel Self-Organizing Map on Large Dataset with Dynamic Parallel and Hyper-Q. Data Science: JoCAI, 2018, 2, 62-73.	0.1	0
108	A Method to Extract the Forensic about Negative Issues from Web. IOP Conference Series: Materials Science and Engineering, 2017, 180, 012241.	0.3	5

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109	Modelling and Simulation of Search Engine. Journal of Physics: Conference Series, 2017, 801, 012078.	0.3	10
110	Mining of the social network extraction. Journal of Physics: Conference Series, 2017, 801, 012020.	0.3	3
111	Modification of speed-up robust feature method with histogram of oriented gradient in image blur classification. , 2017, , .		1
112	Social Network Extraction Based on Web. A Comparison of Superficial Methods. Procedia Computer Science, 2017, 124, 86-92.	1.2	10
113	A framework to apply ICT for bequeathing the cultural heritage to next generation. Journal of Physics: Conference Series, 2017, 801, 012088.	0.3	9
114	Probability Model for Designing Environment Condition. Journal of Physics: Conference Series, 2017, 801, 012026.	0.3	0
115	Performance and Emissions of a Small Compression Ignition Engine Run on Dual-fuel Mode (Diesel-Raw) Tj ETQq1 1,0,784314 rgBT /Ove 0,3	0.3	12
116	New Similarity. IOP Conference Series: Materials Science and Engineering, 2017, 180, 012297.	0.3	9
117	Studies on behaviour of information to extract the meaning behind the behaviour. Journal of Physics: Conference Series, 2017, 801, 012022.	0.3	6
118	Optimizing Robinson Operator with Ant Colony Optimization As a Digital Image Edge Detection Method. Journal of Physics: Conference Series, 2017, 930, 012034.	0.3	4
119	Enhancing Extraction Method for Aggregating Strength Relation Between Social Actors. Advances in Intelligent Systems and Computing, 2017, , 312-321.	0.5	7
120	Using social networks to assess forensic of negative issues. , 2016, , .		12
121	An extracted social network mining. , 2016, , .		17
122	Social Network Mining (SNM): A Definition of Relation between the Resources and SNA. International Journal on Advanced Science, Engineering and Information Technology, 2016, 6, 975.	0.2	16
123	Behavior of the resources in the growth of social network. , 2015, , .		7
124	New Method for Extracting Keyword for the Social Actor. Lecture Notes in Computer Science, 2014, , 83-92.	1.0	10
125	Information retrieval model: A social network extraction perspective. , 2012, , .		26
126	Extraction of academic social network from online database. , 2011, , .		29



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127	Superficial Method for Extracting Social Network for Academics Using Web Snippets. Lecture Notes in Computer Science, 2010, , 483-490.	1.0	16
128	Nonlinear spin dynamics of a couple of nonlinear Schrödinger's equations by the improved form of an analytical method. International Journal of Computer Mathematics, 0, , 1-24.	1.0	2