

# Nasruddin Nasruddin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104  
papers

847  
citations

14  
h-index

25  
g-index

147  
ext. papers

1,086  
ext. citations

2.3  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
104	Effect of Graphene Nanoplatelets on Tribological Properties of Bacterial Cellulose/Polyolester Oil Bio-Lubricant. <i>Frontiers in Mechanical Engineering</i> , <b>2022</b> , 8,	2.6	3
103	A comprehensive data and information on low to medium temperature geothermal resources in Indonesia: a review. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , <b>2022</b> , 8, 1	3.8	
102	Bio-metal-organic framework-based cobalt glutamate for CO <sub>2</sub> /N <sub>2</sub> separation: Experimental and multi-objective optimization with a neural network. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 162, 998-1014	5.5	0
101	Biological Metal-Organic Frameworks (Bio-MOFs) for CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 37-51	3.9	16
100	Multiobjective optimization of synechocytis culture in flat-plate photobioreactor toward optimal growth and exergy. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1858, 012038	0.3	1
99	Stability, Viscosity, and Tribology Properties of Polyol Ester Oil-Based Biolubricant Filled with TEMPO-Oxidized Bacterial Cellulose Nanofiber. <i>International Journal of Polymer Science</i> , <b>2021</b> , 2021, 1-9	2.4	6
98	Upgrading Waste Heat from 90 to 110 °C: The Potential of Adsorption Heat Transformation. <i>Energy Technology</i> , <b>2021</b> , 9, 2000643	3.5	6
97	Preparation of metal-organic frameworks (MOFs) based Chromium 2,6-Naphtalenedicarboxylic Acid (MIL-101 NDC) for CO <sub>2</sub> adsorption application. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1078, 012021	0.4	0
96	Optimization of post combustion CO <sub>2</sub> absorption system monoethanolamine (MEA) based for 320 MW coal-fired power plant application [Exergy and exergoenvironmental analysis. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101093	5.6	6
95	Cultivation of Synechococcus HS-9 in a novel rectangular bubble column photobioreactor with horizontal baffle. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101264	5.6	1
94	Multi-objective genetic algorithm optimization with an artificial neural network for CO <sub>2</sub> /CH <sub>4</sub> adsorption prediction in metal-organic framework. <i>Thermal Science and Engineering Progress</i> , <b>2021</b> , 25, 100967	3.6	1
93	Current and future strategies for spent nuclear fuel management in Indonesia. <i>Energy Strategy Reviews</i> , <b>2020</b> , 32, 100575	9.8	2
92	Operation strategy of a solar-gas fired single/double effect absorption chiller for space cooling in Indonesia. <i>Applied Thermal Engineering</i> , <b>2020</b> , 178, 115524	5.8	8
91	Synthesis and characterization of a novel microporous lanthanide based metal-organic framework (MOF) using naphthalenedicarboxylate acid. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 7409-7417	5.5	18
90	Turbidity factor coefficient on the estimation of hourly solar radiation in Depok City, Indonesia. <i>Energy Reports</i> , <b>2020</b> , 6, 761-766	4.6	4
89	Modified Activated Carbon Using NiO for Natural Gas Storage. <i>Materials Science Forum</i> , <b>2020</b> , 1000, 311-317	3.17	1
88	Improved natural gas storage with adsorbed natural gas technology (ANG) using activated carbon from pineapple crown. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1430, 012002	0.3	1

87	The optimization of exergoenvironmental factors in the combined gas turbine cycle and carbon dioxide cascade to generate power in LNG tanker ship. <i>Energy Conversion and Management</i> , <b>2020</b> , 205, 112468	10.6	14
86	Exergy, exergoeconomic, and exergoenvironmental optimization of the geothermal binary cycle power plant at Ampallas, West Sulawesi, Indonesia. <i>Thermal Science and Engineering Progress</i> , <b>2020</b> , 19, 100625	3.6	14
85	CO <sub>2</sub> /N <sub>2</sub> adsorption selectivity using metal-organic framework MIL-101(Cr) for marine engine exhaust model <b>2020</b> ,		1
84	The effect of modification photobioreactor bubble columns by using horizontal baffle on bubble velocity for microalgae <b>2020</b> ,		2
83	Simulation study using building-design energy analysis to estimate energy consumption of refrigerated container. <i>Energy Procedia</i> , <b>2019</b> , 156, 207-211	2.3	8
82	Solar absorption chiller performance prediction based on the selection of principal component analysis. <i>Case Studies in Thermal Engineering</i> , <b>2019</b> , 13, 100391	5.6	13
81	Fatty acid of microalgae as a potential feedstock for biodiesel production in Indonesia <b>2019</b> ,		2
80	Optimization of HVAC system energy consumption in a building using artificial neural network and multi-objective genetic algorithm. <i>Sustainable Energy Technologies and Assessments</i> , <b>2019</b> , 35, 48-57	4.7	72
79	Passive cooling strategies in roof design to improve the residential building thermal performance in tropical region. <i>Asian Journal of Civil Engineering</i> , <b>2019</b> , 20, 571-580	1.5	7
78	Generation of Microbubbles through Single Loop and Double Loop Fluid Oscillator for Photobioreactor Aeration <b>2019</b> , 10, 1446		2
77	Synthesis, Characterizations, and Adsorption Isotherms of CO <sub>2</sub> on Chromium Terephthalate (MIL-101) Metal-organic Frameworks (Mofs) <b>2019</b> , 10, 1427		4
76	Tubular Photobioreactor: A Preliminary Experiment Using <i>Synechococcus</i> sp. (Cyanobacteria) Cultivated in NPK Media for Biomass Production as Biofuel Feedstock. <i>Evergreen</i> , <b>2019</b> , 6, 157-161	1.6	3
75	Sorption-based Energy Storage Systems: A Review. <i>Makara Journal of Technology</i> , <b>2019</b> , 23, 16	1	2
74	Energy Analysis for the Solar Thermal Cooling System in Universitas Indonesia <b>2019</b> , 27, 1950023		0
73	Quantification of the impact of temperature difference between two connected indoor spaces on 222Rn concentration. <i>Building and Environment</i> , <b>2019</b> , 149, 322-329	6.5	3
72	Design of a combination package of heat exchanger and heater for organic rankine cycle power plant. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012046	0.3	1
71	Exergoeconomic analysis and optimization of a combined double flash Binary cycle for Ulubelu geothermal power plant in Indonesia. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012087	0.3	3
70	Operation performance enhancement of single-double-effect absorption chiller. <i>Applied Energy</i> , <b>2018</b> , 219, 299-311	10.7	29

69	Studies of the water adsorption on Lampung natural zeolite of Indonesia for cooling application. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 316, 012001	0.4	
68	Preliminary study of natural zeolite from Bayah for solar powered cooling application. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012001	0.3	2
67	Comparative study of the monthly global solar radiation estimation data in Jakarta. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012111	0.3	6
66	Methodology for implementing power plant efficiency standards for power generation: potential emission reduction. <i>Clean Technologies and Environmental Policy</i> , <b>2018</b> , 20, 309-327	4.3	12
65	Utilization of waste heat from separation process of Ulubelu geothermal power plant by implementing an Absorption Refrigeration System (ARS) to improve plant performance. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012110	0.3	
64	Optimization of Dry Storage for Spent Fuel from G.A. Siwabessy Nuclear Research Reactor <b>2018</b> , 9, 55		6
63	Indonesia Municipal Solid Waste 3R and Waste to Energy Programs. <i>Makara Journal of Technology</i> , <b>2018</b> , 21, 153	1	7
62	Synthesis and characterization of ionic liquid polymer composite with zeolite and its application for carbon dioxide capture. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 458, 012009	0.4	3
61	Design, development and performance prediction of solar heater for regeneration of adsorbent chamber. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012004	0.3	
60	A low-cost media for leptolyngbya (cyanobacteria) strain growth isolated from indonesia as a potential biofuel feedstock. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02013	0.5	0
59	Effect of aeration in simple photobioreactor system for biomass production of synechococcus sp. (cyanobacteria) HS-7 and HS-9 as biofuel feedstock. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02006	0.5	0
58	Growth of mastigocladus (Cyanobacteria) HS-46 isolated from maribaya hot spring, indonesia in medium NPK as a potential biofuel feedstock. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02020	0.5	0
57	Performance prediction of vaccine carrier using adsorption process and 13x/cacl <sub>2</sub> composite zeolite as adsorbent. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012003	0.3	1
56	Thermodynamic analysis and multi objective optimization of kalina and absorption cycle for power and cooling driven by lahendong geothermal source. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012099	0.3	1
55	Fatty acid characterization of indigenous cyanobacterial strains isolated from five hot springs in indonesia. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02021	0.5	2
54	Multi objective optimization of microalgae flat plate photobioreactor design. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02053	0.5	1
53	CFD Simulation of Silica Gel as an Adsorbent on Finned Tube Adsorbent Bed. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 01014	0.5	3
52	Effects of aeration intensity as agitation in simple photobioreactors on leptolyngbya (cyanobacteria) growth as biofuel feedstock. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02011	0.5	1

51	Preparation and characterization of soybean straw activated carbon for natural gas storage. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 03019	0.5	4
50	Preparation and Characterization of Graphite Waste/CeO <sub>2</sub> Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 316, 012030	0.4	1
49	Characteristics Air Flow in Room Chamber Test Refrigerator Household Energy Consumption with Inlet Flow Variation. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 316, 012002	0.4	0
48	Experimental performance of adsorption chiller with fin and tube heat exchanger <b>2018</b> ,		3
47	Study of the use of nanomaterials as drilling mud additives. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02007	0.5	5
46	Utilization of crown pineapple waste as raw material preparation of activated carbon as adsorbent in natural gas storage. <i>E3S Web of Conferences</i> , <b>2018</b> , 67, 02018	0.5	4
45	Hydrophilic and hydrophobic characteristics of dry peat. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012083	0.3	8
44	Hourly solar radiation in Depok, West Java, Indonesia (106.7942 Longitude, -6.4025 Latitude). <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012088	0.3	4
43	Optimization Study of Hydrogen Gas Adsorption on Zig-zag Single-walled Carbon Nanotubes: The Artificial Neural Network Analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 333, 012031	0.4	1
42	Exergetic-Economic analysis and optimization of solar assisted heat pump using Multi-objective Genetic Algorithm. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012064	0.3	2
41	Hot water temperature prediction using a dynamic neural network for absorption chiller application in Indonesia. <i>Sustainable Energy Technologies and Assessments</i> , <b>2018</b> , 30, 114-120	4.7	11
40	CFD Modelling of Adsorption Behaviour in AGN Tank with Polyethylene Terephthalate Plastic Waste Based Activated Carbon. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 316, 012015	0.4	3
39	High-Pressure Adsorption Isotherms of Carbon Dioxide and Methane on Activated Carbon From Low-Grade Coal of Indonesia. <i>Heat Transfer Engineering</i> , <b>2017</b> , 38, 396-402	1.7	9
38	Adsorption Isotherms of Hydrogen on Granular Activated Carbon Derived From Coal and Derived From Coconut Shell. <i>Heat Transfer Engineering</i> , <b>2017</b> , 38, 403-408	1.7	6
37	Preparation of activated carbon from waste plastics polyethylene terephthalate as adsorbent in natural gas storage. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 176, 012055	0.4	13
36	Natural deep eutectic solvents (NADES) as green solvents for carbon dioxide capture <b>2017</b> ,		27
35	Preparation of Activated Carbon from Palm Shells using KOH and ZnCl <sub>2</sub> as the Activating Agent. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 180, 012282	0.4	11
34	Study on the CFD simulation of refrigerated container. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 257, 012042	0.4	7

33	Improved of Natural Gas Storage with Adsorbed Natural Gas (ANG) Technology Using Activated Carbon from Plastic Waste Polyethylene Terephthalate. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2017</b> , 75, 012018	0.3	3
32	Performance evaluation of radiant cooling system application on a university building in Indonesia <b>2017</b> ,		1
31	Characteristics of evacuated tubular solar thermal collector as input energy for cooling system at Universitas Indonesia <b>2017</b> ,		2
30	Study on the estimation of solar radiation: Case study: Jakarta, Indonesia <b>2017</b> ,		4
29	Preparation of Activated Carbon from Palm Shells Using KOH and ZnCl <sub>2</sub> as the Activating Agent. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2017</b> , 75, 012009	0.3	5
28	Adsorption isotherms of natural gas on activated carbons from banana peel waste and water hyacinth <b>2017</b> ,		2
27	Production of Activated Carbon from Coffee Grounds Using Chemical and Physical Activation Method. <i>Advanced Science Letters</i> , <b>2017</b> , 23, 5751-5755	0.1	8
26	Improvement of Carbon Dioxide Capture using Graphite Waste/ FE <sub>3</sub> O <sub>4</sub> Composites <b>2017</b> , 8, 1436		7
25	Techno-economic and environmental assessment of bioethanol production from high starch and root yield Sri Kanji 1 cassava in Malaysia. <i>Energy Reports</i> , <b>2016</b> , 2, 246-253	4.6	11
24	Preparation and thermal characteristics of eutectic fatty acids/Shorea javanica composite for thermal energy storage. <i>Applied Thermal Engineering</i> , <b>2016</b> , 100, 62-67	5.8	22
23	Potential of geothermal energy for electricity generation in Indonesia: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 733-740	16.2	102
22	Optimization of Hydrogen Storage Capacity by Physical Adsorption on Open-ended Single-walled Carbon Nanotube as Diameter Function <b>2016</b> , 7, 264		4
21	Application of single-double-effect absorption chiller to utilize solar energy in the tropical regions. <i>The Proceedings of the Symposium on Environmental Engineering</i> , <b>2016</b> , 2016.26, 419	0	
20	Thermoeconomic Optimization of Cascade Refrigeration System Using Mixed Carbon Dioxide and Hydrocarbons at Low Temperature Circuit. <i>Makara Journal of Technology</i> , <b>2016</b> , 20, 132	1	5
19	Optimization of a cascade refrigeration system using refrigerant C <sub>3</sub> H <sub>8</sub> in high temperature circuits (HTC) and a mixture of C <sub>2</sub> H <sub>6</sub> /CO <sub>2</sub> in low temperature circuits (LTC). <i>Applied Thermal Engineering</i> , <b>2016</b> , 104, 96-103	5.8	39
18	Solar-assisted single-double-effect absorption chiller for use in Asian tropical climates. <i>Renewable Energy</i> , <b>2016</b> , 99, 825-835	8.1	42
17	Simulation and Optimization of Solar Thermal Cooling System in Manufacturing Research Center Building to Reduce Operational Cost Using Software EnergyPlus and GenOpt. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 780, 81-86	0.3	1
16	Experimental and Simulation Study on the Performance of Counter Flow Closed Cooling Tower Systems <b>2015</b> , 6, 365		3

15	Effect of Methane Gas Flow Rate on Adsorption Capacity and Temperature Distribution of Activated <b>2015</b> , 6, 584		5
14	Numerical Simulation of a Two-bed Solar-driven Adsorption Chiller in a Tropical Climate <b>2015</b> , 6, 594		4
13	Hydrogen Adsorption Capacity Reduction of Activated Carbon Produced from Indonesia Low Rank Coal by Pelletizing <b>2015</b> , 44, 747-752		2
12	Characteristics and COP Cascade Refrigeration System using Hydrocarbon Refrigerant (Propane, Ethane and CO <sub>2</sub> ) at Low Temperature Circuit (TC) <b>2014</b> , 4, 112		2
11	Hydrogen Adsorption Behavior of Mechanically Milled and Pelletized Coconut Shell Activated Carbon. <i>Materials Science Forum</i> , <b>2013</b> , 737, 98-104	0.4	1
10	Simulation of Solar Organic Rankine Cycle System Using Turbocharger with Cycle Tempo and Environmentally Friendly Fluid. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 388, 13-17	0.3	1
9	Effect of Hot Air Reservoir and Insulator Tray in the Development of Vacuum Freeze Drying. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 388, 139-145	0.3	1
8	Experimental of Cascade Refrigeration System Using Natural Refrigerant Mixture Ethane and Carbon Dioxide at Low Temperature Circuit and Natural Refrigerant Propane at High Temperature Circuit. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 388, 96-100	0.3	
7	Development of a compact freeze vacuum drying for jelly fish (Schypomedusae) <b>2012</b> ,		1
6	Adsorption Isotherms of CH <sub>4</sub> on Activated Carbon from Indonesian Low Grade Coal. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 361-367	2.8	24
5	Evaporation heat transfer coefficient in single circular small tubes for flow natural refrigerants of C <sub>3</sub> H <sub>8</sub> , NH <sub>3</sub> , and CO <sub>2</sub> . <i>International Journal of Multiphase Flow</i> , <b>2011</b> , 37, 794-801	3.6	39
4	Sensitivity analysis of steam power plant-binary cycle. <i>Energy</i> , <b>2010</b> , 35, 3578-3586	7.9	19
3	Energy and exergy analysis of kalina cycle system (KCS) 34 with mass fraction ammonia-water mixture variation. <i>Journal of Mechanical Science and Technology</i> , <b>2009</b> , 23, 1871-1876	1.6	57
2	Computational study on multi-objective optimization of the diffuser augmented horizontal axis tidal turbine. <i>Journal of Marine Science and Technology</i> , 1	1.7	1
1	MXene Based Palm Oil Methyl Ester as an Effective Heat Transfer Fluid. <i>Journal of Nano Research</i> , <b>68</b> , 17-34	1	3