

Mohd Asyadi Azam

List of Publications by Year in descending order

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84
papers

1,041
citations

471061

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88
all docs

88
docs citations

88
times ranked

1190
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances of silicon, carbon composites and tin oxide as new anode materials for lithium-ion battery: A comprehensive review. <i>Journal of Energy Storage</i> , 2021, 33, 102096.	3.9	81
2	Aligned carbon nanotube from catalytic chemical vapor deposition technique for energy storage device: a review. <i>Ionics</i> , 2013, 19, 1455-1476.	1.2	58
3	Recent advances in biomass-derived carbon, mesoporous materials, and transition metal nitrides as new electrode materials for supercapacitor: A short review. <i>International Journal of Energy Research</i> , 2021, 45, 8335-8346.	2.2	50
4	Systematic gap analysis of carbon nanotube-based lithium-ion batteries and electrochemical capacitors. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 644-659.	8.2	48
5	Graphene/transition metal dichalcogenides hybrid supercapacitor electrode: status, challenges, and perspectives. <i>Nanotechnology</i> , 2018, 29, 502001.	1.3	46
6	Electronic properties and gas adsorption behaviour of pristine, silicon-, and boron-doped (8, 0) single-walled carbon nanotube: A first principles study. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 75, 85-93.	1.3	45
7	Development of High Performance Electrochemical Capacitor: A Systematic Review of Electrode Fabrication Technique Based on Different Carbon Materials. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, M3101-M3119.	0.9	42
8	A critical review on the contributions of chemical and physical factors toward the nucleation and growth of large-area graphene. <i>Journal of Materials Science</i> , 2018, 53, 7095-7111.	1.7	41
9	Recent progress of graphene-based materials for efficient charge transfer and device performance stability in perovskite solar cells. <i>International Journal of Energy Research</i> , 2021, 45, 1347-1374.	2.2	34
10	Mechanical and Morphological Properties of Polypropylene/Epoxidized Natural Rubber Blends at Various Mixing Ratio. <i>Procedia Engineering</i> , 2013, 68, 439-445.	1.2	30
11	Review-Critical Considerations of High Quality Graphene Synthesized by Plasma-Enhanced Chemical Vapor Deposition for Electronic and Energy Storage Devices. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3035-M3048.	0.9	30
12	A critical review of the effects of fluid dynamics on graphene growth in atmospheric pressure chemical vapor deposition. <i>Journal of Materials Research</i> , 2018, 33, 1088-1108.	1.2	28
13	Thermally oxidized aluminum as catalyst-support layer for vertically aligned single-walled carbon nanotube growth using ethanol. <i>Applied Surface Science</i> , 2011, 258, 873-882.	3.1	26
14	Study of Surface Roughness on Milling Unfilled-polyetheretherketones Engineering Plastics. <i>Procedia Engineering</i> , 2013, 68, 654-660.	1.2	26
15	Deposition and Characterization of Molybdenum Thin Film Using Direct Current Magnetron and Atomic Force Microscopy. <i>Journal of Nanotechnology</i> , 2017, 2017, 1-10.	1.5	26
16	Direct growth of vertically aligned single-walled carbon nanotubes on conducting substrate and its electrochemical performance in ionic liquids. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2260-2266.	0.8	23
17	Design and development of navigation system by using RFID technology. , 2013, , .		20
18	Activated carbon and single-walled carbon nanotube based electrochemical capacitor in 1M LiPF ₆ electrolyte. <i>Materials Research Bulletin</i> , 2015, 69, 20-23.	2.7	20

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19	Synthesis of graphene nanoplatelets from palm-based waste chicken frying oil carbon feedstock by using catalytic chemical vapour deposition. <i>Materials Today Communications</i> , 2018, 15, 81-87.	0.9	20
20	Tip-growth of aligned carbon nanotubes on cobalt catalyst supported by alumina using alcohol catalytic chemical vapor deposition. <i>Results in Physics</i> , 2014, 4, 105-106.	2.0	18
21	Structural and Electronic Properties of Transition-Metal Oxides Attached to a Single-Walled CNT as a Lithium-Ion Battery Electrode: A First-Principles Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2636-2642.	1.1	18
22	Corrosion behavior of API-5L-X42 petroleum/natural gas pipeline steel in South China Sea and Strait of Melaka seawaters. <i>Engineering Failure Analysis</i> , 2020, 115, 104654.	1.8	17
23	Highly efficient growth of vertically aligned carbon nanotubes on Fe-Ni based metal alloy foils for supercapacitors. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2016, 7, 045016.	0.7	16
24	X-Ray and Morphological Characterization of Al-O Thin Films Used for Vertically Aligned Single-Walled Carbon Nanotube Growth. <i>Advanced Materials Research</i> , 0, 620, 213-218.	0.3	14
25	Electrochemical performance of activated carbon and graphene based supercapacitor. <i>Materials Technology</i> , 2015, 30, A14-A17.	1.5	14
26	Direct Growth of Vertically-Aligned Single-Walled Carbon Nanotubes on Conducting Substrates using Ethanol for Electrochemical Capacitor. <i>Journal of New Materials for Electrochemical Systems</i> , 2011, 14, 173-178.	0.3	14
27	Fabrication and Characterization of Carbon Nanotube Field-Effect Transistors Using Ferromagnetic Electrodes with Different Coercivities. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 02BD08.	0.8	13
28	Thermal Degradation of Single-Walled Carbon Nanotubes during Alcohol Catalytic Chemical Vapor Deposition Process. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 02BA04.	0.8	12
29	A Sustainable Polymer Composite from Recycled Polypropylene Filled with Shrimp Shell Waste. <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 167-172.	1.9	11
30	Recycling aluminium (Al 6061) chip through powder metallurgy route. <i>Materials Research Innovations</i> , 2014, 18, S6-354-S6-358.	1.0	11
31	Influence of Yttrium Dopant on the Structure and Electrical Conductivity of Potassium Sodium Niobate Thin Films. <i>Materials Research</i> , 2016, 19, 1417-1422.	0.6	11
32	Effect of amphoteric dopant on the dielectric and structural properties of yttrium doped potassium sodium niobate thin film. <i>Materials Letters</i> , 2016, 170, 10-14.	1.3	9
33	A novel explanatory hybrid artificial bee colony algorithm for numerical function optimization. <i>Journal of Supercomputing</i> , 2020, 76, 9330-9354.	2.4	9
34	Growth Conditions of Graphene Grown in Chemical Vapour Deposition (CVD). <i>Sains Malaysiana</i> , 2017, 46, 1033-1038.	0.3	9
35	Performances study of distance measurement sensor with different object materials and properties. , 2013, , .		8
36	Systematic review of catalyst nanoparticles synthesized by solution process: towards efficient carbon nanotube growth. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 484-500.	1.1	8

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37	Direct observation of graphene during Raman analysis and the effect of precursor solution parameter on the graphene structures. <i>Diamond and Related Materials</i> , 2020, 104, 107767.	1.8	8
38	Structural studies of NiTe ₂ thin films with the influence of amino additives. <i>International Journal of Mechanical and Materials Engineering</i> , 2014, 9, .	1.1	7
39	Structural evolution and dopant occupancy preference of yttrium-doped potassium sodium niobate thin films. <i>Journal of Electroceramics</i> , 2016, 37, 50-57.	0.8	7
40	A simple and room temperature sol-gel process for the fabrication of cobalt nanoparticles as an effective catalyst for carbon nanotube growth. <i>RSC Advances</i> , 2015, 5, 95872-95881.	1.7	6
41	An extensive study on carbon nanomaterials electrode from electrophoretic deposition technique for energy storage device. <i>Journal of Materials Research</i> , 2016, 31, 1972-1982.	1.2	6
42	Kinetic studies of few-layer graphene grown by flame deposition from the perspective of gas composition and temperature. <i>RSC Advances</i> , 2019, 9, 21000-21008.	1.7	6
43	Synthesis of Fe catalyst nanoparticles by solution process towards carbon nanotube growth. <i>Materials Technology</i> , 2015, 30, A8-A13.	1.5	5
44	Antibacterial Activity of Amine-Functionalized Zeolite NaY against <i>Staphylococcus aureus</i> ATCC6538 and <i>Escherichia coli</i> ATCC11229. <i>Applied Mechanics and Materials</i> , 0, 761, 402-406.	0.2	5
45	Electrochemical synthesis and characterization of poly(3-hexylthiophene)/single-walled carbon nanotube array hybrid materials. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3179-3187.	1.2	5
46	Direct deposition of multi-walled carbon nanotubes onto stainless steel and YEF foils using a simple electrophoretic deposition for electrochemical capacitor electrode. <i>Materials Research Express</i> , 2019, 6, 015501.	0.8	5
47	Hybrid heterostructures of graphene and molybdenum disulfide: The structural characterization and its supercapacitive performance in 6M KOH electrolyte. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 554-559.	1.5	5
48	Synthesis of Large-Area Few-Layer Graphene by Open-Flame Deposition. <i>Sains Malaysiana</i> , 2017, 46, 1011-1016.	0.3	5
49	Corrosion Analysis of Carbon Steel Pipeline: Effect of Different Sulfuric Acid Concentrations. <i>Applied Mechanics and Materials</i> , 0, 699, 215-220.	0.2	4
50	Characterization of graphene growth using RF-PECVD on Cobalt films. , 2016, , .		4
51	Electrical characterization of reduced graphene oxide deposited on interdigitated electrodes. , 2016, , .		4
52	Optimization of physical and mechanical properties of glycerol - modified natural rubber/starch - filled carbon black composites using two level factorial design. <i>Journal of Mechanical Engineering and Sciences</i> , 2019, 13, 4989-5005.	0.3	4
53	Nanostructuring Ultra-thin Co Films to Active Catalyst Particles for Vertically Aligned Single-walled CNT Growth. <i>Procedia Engineering</i> , 2013, 68, 566-571.	1.2	3
54	Electrically conductive aluminum oxide thin film used as cobalt catalyst-support layer in vertically aligned carbon nanotube growth. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2015, 6, 045008.	0.7	3

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55	Electrochemical Impedance Behavior of Various Composition Quaternary Ni Alloy in 3.5 Wt% NaCl. Applied Mechanics and Materials, 0, 761, 407-411.	0.2	3
56	Control of Cobalt Catalyst Thin Film Thickness by Varying Spin Speed in Spin Coating towards Carbon Nanotube Growth. Applied Mechanics and Materials, 0, 761, 421-425.	0.2	3
57	EFFECT OF VOLTAGE ON TIO ₂ NANOTUBES FORMATION IN ETHYLENE GLYCOL SOLUTION. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	3
58	Minimizing thin film thickness in TiN coatings using genetic algorithms. AIP Conference Proceedings, 2018, , .	0.3	3
59	Influence of surface energy and elastic strain energy on the graphene growth in chemical vapor deposition. Materials Today: Proceedings, 2019, 7, 776-783.	0.9	3
60	Application of Bat Algorithm in Carbon Nanotubes Growing Process Parameters Optimization. Lecture Notes in Networks and Systems, 2019, , 179-192.	0.5	3
61	Fabrication and characterization of functionalized multi-walled carbon nanotube mixed-matrix membrane for treating biochemical and chemical oxygen demands of surface waters. Diamond and Related Materials, 2020, 109, 108074.	1.8	3
62	Lithium-Ion Supercapacitor Using Vertically-aligned Carbon Nanotubes from Direct Growth Technique, and its Electrochemical Characteristics. Portugaliae Electrochimica Acta, 2019, 37, 167-178.	0.4	3
63	Cyclic Voltammetry Analysis of Carbon Based Electrochemical Capacitor in Aqueous Electrolytes. Applied Mechanics and Materials, 0, 761, 452-456.	0.2	2
64	Electrophoretic Deposition and Heat Treatment of Steel-Supported PVDF-Graphite Composite Film. Applied Mechanics and Materials, 0, 761, 412-416.	0.2	2
65	Platinum and Aluminium Microresonator Bridges for Artificial Basilar Membrane. Applied Mechanics and Materials, 0, 761, 462-467.	0.2	2
66	A Study on (K, Na) NbO ₃ Thin Films with Optimized Layer: Effect on Physical and Electrical Properties. Key Engineering Materials, 0, 694, 120-124.	0.4	2
67	Surface Interaction Between Carbon Patches and Catalyst Nanoparticle as the Key Factor in Aligned Carbon Nanotube Growth Using Alcohol Catalytic CVD. Nano, 2017, 12, 1750012.	0.5	2
68	HRTEM Analysis of Magnetron Sputtered Ni ₄ Al Thin Films. Applied Mechanics and Materials, 0, 761, 504-509.	0.2	1
69	Electrochemical Performance of Multi Walled Carbon Nanotube and Graphene Composite Films Using Electrophoretic Deposition Technique. Applied Mechanics and Materials, 0, 761, 468-472.	0.2	1
70	Optimization of Milling Parameter for Untreated and Heat Treated Polyetheretherketones (PEEK) Biomaterials. Applied Mechanics and Materials, 0, 761, 293-297.	0.2	1
71	Electroless Ni-Co-Cu-P Alloy Deposition in Alkaline Hypophosphite Based Bath. Key Engineering Materials, 0, 694, 151-154.	0.4	1
72	A Facile Coating Method for Superhydrophobic Magnetic Composite Sheet from Biodegradable Durian Peel for Electromagnetic Wave Absorbance Application. Key Engineering Materials, 0, 694, 39-43.	0.4	1

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73	Fatigue and Mechanical Properties of Graphene Nanoplatelets Reinforced Nr/Epdm Nanocomposites. Journal of Physics: Conference Series, 2018, 1082, 012050.	0.3	1
74	Characterization of Hierarchical Porous Materials. Engineering Materials, 2022, , 407-429.	0.3	1
75	Functionalisation of ethylene-propylene copolymer by melt grafting of maleic anhydride using a high shear internal mixer. Materials Research Innovations, 2014, 18, S6-36-S6-42.	1.0	0
76	Fabrication of Activated Carbon Filled Epoxidized Natural Rubber Composite Using Solvent Casting Method. Applied Mechanics and Materials, 0, 761, 426-430.	0.2	0
77	Cure Characteristics of Natural Rubber/EPDM Blends for the Effect of MAH Grafted EPM and Compounding Parameters via Response Surface Methodology. Applied Mechanics and Materials, 0, 761, 441-446.	0.2	0
78	Structural analysis of graphene growth on interdigital electrodes micro supercapacitor by PECVD at various temperatures. , 2016, , .		0
79	ELECTROLESS QUATERNARY NI-CU-CO-P ALLOY DEPOSITION MECHANISM IN ACIDIC BATH USING CYCLIC VOLTAMMETRY MEASUREMENT. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	0
80	Wear characteristics of recycled carbon fibre-filled polypropylene composites via acidic surface treatment. World Review of Science, Technology and Sustainable Development, 2018, 14, 165.	0.3	0
81	Active Cobalt Catalyst for Carbon Powder Growth: Sol-gel Process and Alcohol Catalytic CVD Technique. Nanoscience and Nanotechnology - Asia, 2020, 10, 68-73.	0.3	0
82	2307 Designing Supercapacitor from Nanocarbon Materials. The Proceedings of Design & Systems Conference, 2014, 2014.24, _2307-1_-_2307-5_.	0.0	0
83	2304 Deposition of Catalyst and Catalyst-Support Thin Films for Aligned Carbon Nanotube Growth. The Proceedings of Design & Systems Conference, 2014, 2014.24, _2304-1_-_2304-8_.	0.0	0
84	Carbon nanomaterial-based sensor: Synthesis and characterization. , 2022, , 15-28.		0