Saif Almheiri

List of Publications by Year
in descending order

39 papers	881 citations	535685 17 h-index	536525 29 g-index
39 all docs	39 docs citations	39 times ranked	1338 citing authors

#	Article	IF	Citations
1	Smooth surface induced glossy appearance of freestanding multiwall carbon nanotube sheet. Carbon Letters, 2021, 31, 689.	3.3	1
2	Highly electrically conductive carbon nanostructured mats fabricated out of aligned CNTs-based flakes. Diamond and Related Materials, 2020, 106, 107849.	1.8	3
3	MWCNT/activated-carbon freestanding sheets: a different approach to fabricate flexible electrodes for supercapacitors. Ionics, 2019, 25, 265-273.	1.2	14
4	Robust Surface-Engineered Tape-Cast and Extrusion Methods to Fabricate Electrically-Conductive Poly(vinylidene fluoride)/Carbon Nanotube Filaments for Corrosion-Resistant 3D Printing Applications. Scientific Reports, 2019, 9, 9618.	1.6	12
5	Sustainable applications utilizing sulfur, a by-product from oil and gas industry: A state-of-the-art review. Waste Management, 2019, 95, 78-89.	3.7	51
6	Activity of MWCNT sheets and effects of carbonaceous impurities toward the alkaline-based hydrogen evolution reaction. Ionics, 2019, 25, 4285-4294.	1.2	2
7	Nanoscopic and Macro-Porous Carbon Nano-foam Electrodes with Improved Mass Transport for Vanadium Redox Flow Batteries. Scientific Reports, 2019, 9, 17655.	1.6	19
8	Characteristics of charge/discharge and alternating current impedance in all-vanadium redox flow batteries. Energy, 2019, 168, 693-701.	4.5	20
9	Development of Surfaceâ€Engineered Tapeâ€Casting Method for Fabricating Freestanding Carbon Nanotube Sheets Containing Fe₂O₃ Nanoparticles for Flexible Batteries. Advanced Engineering Materials, 2018, 20, 1701019.	1.6	16
10	Effects of carbonaceous impurities on the electrochemical activity of multiwalled carbon nanotube electrodes for vanadium redox flow batteries. Carbon, 2018, 131, 47-59.	5.4	30
11	Cyclable membraneless redox flow batteries based on immiscible liquid electrolytes: Demonstration with all-iron redox chemistry. Electrochimica Acta, 2018, 267, 41-50.	2.6	38
12	Performance optimization of freestanding MWCNT-LiFePO₄ sheets as cathodes for improved specific capacity of lithium-ion batteries. RSC Advances, 2018, 8, 16566-16573.	1.7	18
13	Hydrothermal synthesis of LiFePO4 micro-particles for fabrication of cathode materials based on LiFePO4/carbon nanotubes nanocomposites for Li-ion batteries. Ionics, 2018, 24, 3685-3690.	1.2	15
14	Mechanical, thermal and electrical properties of LiFePO4/MWCNTs composite electrodes. Materials Letters, 2018, 230, 57-60.	1.3	16
15	A wet-filtration-zipping approach for fabricating highly electroconductive and auxetic graphene/carbon nanotube hybrid buckypaper. Scientific Reports, 2018, 8, 12188.	1.6	24
16	Fabrication of Freestanding Sheets of Multiwalled Carbon Nanotubes (Buckypapers) for Vanadium Redox Flow Batteries and Effects of Fabrication Variables on Electrochemical Performance. Electrochimica Acta, 2017, 230, 222-235.	2.6	53
17	Prospects of recently developed membraneless cell designs for redox flow batteries. Renewable and Sustainable Energy Reviews, 2017, 70, 506-518.	8.2	52
18	Inorganic semiconductors-graphene composites in photo(electro)catalysis: Synthetic strategies, interaction mechanisms and applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 33, 132-164.	5.6	54

#	Article	IF	Citations
19	The potential of non-aqueous redox flow batteries as fast-charging capable energy storage solutions: demonstration with an ironâ€“chromium acetylacetonate chemistry. Journal of Materials Chemistry A, 2017, 5, 13457-13468.	5.2	44
20	Synthesis of few-layer graphene-like sheets from carbon-based powders via electrochemical exfoliation, using carbon black as an example. Journal of Materials Science, 2017, 52, 11004-11013.	1.7	15
21	Influence of solvents on species crossover and capacity decay in non-aqueous vanadium redox flow batteries: Characterization of acetonitrile and 1, 3 dioxolane solvent mixture. Journal of Power Sources, 2017, 342, 371-381.	4.0	25
22	Systematic selection of solvent mixtures for non-aqueous redox flow batteries â€“ vanadium acetylacetonate as a model system. Electrochimica Acta, 2017, 223, 115-123.	2.6	27
23	Oxygen reduction on a Pt(111) catalyst in HT-PEM fuel cells by density functional theory. AIP Advances, 2017, 7, .	0.6	4
24	A surface-engineered tape-casting fabrication technique toward the commercialisation of freestanding carbon nanotube sheets. Journal of Materials Chemistry A, 2017, 5, 19255-19266.	5.2	41
25	Insights on the Electrochemical Activity of Porous Carbonaceous Electrodes in Non-Aqueous Vanadium Redox Flow Batteries. Journal of the Electrochemical Society, 2017, 164, A3673-A3683.	1.3	12
26	Effect of sand and method of mixing on molten salt properties for an open direct absorption solar receiver/storage system. AIP Conference Proceedings, 2017, , .	0.3	2
27	Prediction of Refrigerant Flow Boiling Hysteresis With an Augmented Separated-Flow Model. , 2016, , .		0
28	Thermal modeling of a secondary concentrator integrated with an open direct-absorption molten-salt volumetric receiver in a beam-down tower system. AIP Conference Proceedings, 2016, , .	0.3	6
29	Molecular simulation of mass transport in phosphoric acid doped poly(2,5-benzimidazole) polymer electrolyte membranes. International Journal of Hydrogen Energy, 2016, 41, 7614-7621.	3.8	12
30	A Molecular Dynamic Simulation of Hydrated Proton Transfer in Perfluorosulfonate Ionomer Membranes (Nafion 117). Journal of Chemistry, 2015, 2015, 1-10.	0.9	13
31	A numerical study on the effects of temperature and mass transfer in high temperature PEM fuel cells with ab-PBI membrane. Applied Energy, 2015, 160, 937-944.	5.1	63
32	Direct measurement of methanol crossover fluxes under land and channel in direct methanol fuel cells. International Journal of Hydrogen Energy, 2015, 40, 10969-10978.	3.8	8
33	Current Density Variations Under Land and Channel in DMFCs. Energy Procedia, 2014, 61, 2315-2318.	1.8	1
34	Separate measurement of current density under land and channel in Direct Methanol Fuel Cells. Journal of Power Sources, 2014, 246, 899-905.	4.0	16
35	Modeling the cathode catalyst layer of a Direct Methanol Fuel Cell. Journal of Power Sources, 2013, 243, 195-202.	4.0	31
36	Three-Dimensional Simulation-Based Optimum Design of Direct Methanol Fuel Cell System. Journal of Fuel Cell Science and Technology, 2013, 10, .	0.8	4

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37	A novel membrane for DMFC â€“ Na 2 Ti 3 O 7 Nanotubes/Nafion Â® composite membrane: Performances studies. International Journal of Hydrogen Energy, 2012, 37, 1857-1864.	3.8	31
38	The effects of excess phosphoric acid in a Polybenzimidazole-based high temperature proton exchange membrane fuel cell. Journal of Power Sources, 2010, 195, 181-184.	4.0	52
39	Effect of cathode catalyst layer thickness on methanol cross-over in a DMFC. Electrochimica Acta, 2010, 56, 600-606.	2.6	36