

Shabbir Ahmed

List of Publications by Year in descending order

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44
papers

3,814
citations

159358

30
h-index

276539

41
g-index

45
all docs

45
docs citations

45
times ranked

3429
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing total cost of ownership of battery electric vehicles and internal combustion engine vehicles. Energy Policy, 2021, 158, 112564.	4.2	85
2	Pathways towards managing cost and degradation risk of fast charging cells with electrical and thermal controls. Energy and Environmental Science, 2021, 14, 6564-6573.	15.6	16
3	Modulating electrode utilization in lithium-ion cells with silicon-bearing anodes. Journal of Power Sources, 2020, 477, 229029.	4.0	13
4	Estimating Cost and Energy Demand in Producing Lithium Hexafluorophosphate for Li-Ion Battery Electrolyte. Industrial & Engineering Chemistry Research, 2019, 58, 3754-3766.	1.8	22
5	Intercalation of Magnesium into a Layered Vanadium Oxide with High Capacity. ACS Energy Letters, 2019, 4, 1528-1534.	8.8	75
6	Modeling and analysis of solvent removal during Li-ion battery electrode drying. Journal of Power Sources, 2018, 378, 660-670.	4.0	62
7	Technical and economic analysis of solvent-based lithium-ion electrode drying with water and NMP. Drying Technology, 2018, 36, 234-244.	1.7	158
8	Cost of automotive lithium-ion batteries operating at high upper cutoff voltages. Journal of Power Sources, 2018, 403, 56-65.	4.0	51
9	Cost and energy demand of producing nickel manganese cobalt cathode material for lithium ion batteries. Journal of Power Sources, 2017, 342, 733-740.	4.0	129
10	Enabling fast charging “ Vehicle considerations. Journal of Power Sources, 2017, 367, 216-227.	4.0	129
11	Enabling fast charging “ Infrastructure and economic considerations. Journal of Power Sources, 2017, 367, 237-249.	4.0	130
12	Enabling fast charging “ A battery technology gap assessment. Journal of Power Sources, 2017, 367, 250-262.	4.0	342
13	Enabling fast charging “ Battery thermal considerations. Journal of Power Sources, 2017, 367, 228-236.	4.0	216
14	Enabling fast charging “ Introduction and overview. Journal of Power Sources, 2017, 367, 214-215.	4.0	35
15	Energy impact of cathode drying and solvent recovery during lithium-ion battery manufacturing. Journal of Power Sources, 2016, 322, 169-178.	4.0	84
16	Study of a dry room in a battery manufacturing plant using a process model. Journal of Power Sources, 2016, 326, 490-497.	4.0	57
17	Cost savings for manufacturing lithium batteries in a flexible plant. Journal of Power Sources, 2015, 283, 506-516.	4.0	34
18	Catalytic steam reforming of biogas “ Effects of feed composition and operating conditions. International Journal of Hydrogen Energy, 2015, 40, 1005-1015.	3.8	48

#	ARTICLE	IF	CITATIONS
19	Progress of international program on hydrogen production with the copper-chlorine cycle. International Journal of Hydrogen Energy, 2014, 39, 2431-2445.	3.8	28
20	Configuring a fuel cell based residential combined heat and power system. Journal of Power Sources, 2013, 242, 884-894.	4.0	8
21	Facilitating analysis of trace impurities in hydrogen: Enrichment based on the principles of pressure swing adsorption. International Journal of Hydrogen Energy, 2012, 37, 14413-14426.	3.8	20
22	Fuel quality issues with biogas energy – An economic analysis for a stationary fuel cell system. Energy, 2012, 44, 257-277.	4.5	126
23	An analytical and experimental investigation of high-pressure catalytic steam reforming of ethanol in a hydrogen selective membrane reactor. International Journal of Hydrogen Energy, 2010, 35, 2004-2017.	3.8	51
24	Analysis of trace impurities in hydrogen: Enrichment of impurities using a H ₂ selective permeation membrane. International Journal of Hydrogen Energy, 2010, 35, 12480-12490.	3.8	9
25	Hydrogen quality for fuel cell vehicles – A modeling study of the sensitivity of impurity content in hydrogen to the process variables in the SMR-PSA pathway. International Journal of Hydrogen Energy, 2009, 34, 6021-6035.	3.8	52
26	A natural-gas fuel processor for a residential fuel cell system. Journal of Power Sources, 2009, 188, 244-255.	4.0	25
27	A gasoline fuel processor designed to study quick-start performance. Journal of Power Sources, 2006, 154, 214-222.	4.0	35
28	Microchannel development for autothermal reforming of hydrocarbon fuels. Journal of Power Sources, 2005, 139, 91-95.	4.0	42
29	Microlith catalytic reactors for reforming iso-octane-based fuels into hydrogen. Journal of Power Sources, 2005, 152, 75-86.	4.0	40
30	Hydrogen from natural gas: part I – autothermal reforming in an integrated fuel processor. International Journal of Hydrogen Energy, 2005, 30, 829-842.	3.8	138
31	Unraveling the maze: Understanding of diesel reforming through the use of simplified fuel blends. International Journal of Hydrogen Energy, 2005, 30, 1243-1250.	3.8	47
32	Recent advances in fuel processing catalysts for fuel cell applications. Catalysis Today, 2005, 99, 255-256.	2.2	3
33	Characterization of kilowatt-scale autothermal reformer for production of hydrogen from heavy hydrocarbons. International Journal of Hydrogen Energy, 2004, 29, 1035-1046.	3.8	105
34	Fuel processing for fuel cell systems in transportation and portable power applications. Catalysis Today, 2002, 77, 3-16.	2.2	240
35	Experimental assessment of a combined plasma/catalytic system for hydrogen production via partial oxidation of hydrocarbon fuels. International Journal of Hydrogen Energy, 2002, 27, 635-642.	3.8	119
36	Water balance in a polymer electrolyte fuel cell system. Journal of Power Sources, 2002, 112, 519-530.	4.0	40

#	ARTICLE	IF	CITATIONS
37	Challenges in Reforming Gasoline: All Components are Not Created Equal. , 2001, , .		8
38	Hydrogen from hydrocarbon fuels for fuel cells. International Journal of Hydrogen Energy, 2001, 26, 291-301.	3.8	683
39	An Approximate Solution of Caram-Amundson Model for Combustion of Carbon.. Journal of Chemical Engineering of Japan, 2001, 34, 73-76.	0.3	0
40	Characterization of CuO/ZnO under oxidizing conditions for the oxidative methanol reforming reaction. Journal of Molecular Catalysis A, 2000, 162, 275-285.	4.8	139
41	Fuel processing for fuel cell power systems. Fuel Cells Bulletin, 1999, 2, 4-7.	0.7	25
42	Thermal-Hydraulic Model of a Monolithic Solid Oxide Fuel Cell. Journal of the Electrochemical Society, 1991, 138, 2712-2718.	1.3	74
43	Computer Simulation of a Municipal Solid Waste Combustor. Japca, 1989, 39, 1328-1333.	0.3	7
44	Reforming Petroleum-Based Fuels for Fuel Cell Vehicles: Composition-Performance Relationships. , 0, , .		6