## K M Abraham

## List of Publications by Year in Descending Order

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81 8,511 41 92 g-index

100 9,149 5 6.38 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
81	How Comparable Are Sodium-Ion Batteries to Lithium-Ion Counterparts?. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3544-3547	20.1	94
80	Unifying the Hydrogen Evolution and Oxidation Reactions Kinetics in Base by Identifying the Catalytic Roles of Hydroxyl-Water-Cation Adducts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3232-3239	16.4	119
79	Correlating Ionic Conductivity, Oxygen Transport and ORR with Structure of Dialkylacetamide-Based Electrolytes for Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A305-A317	3.9	3
78	Effect of silver coating on electrochemical performance of 0.5Li2MnO3.0.5 LiMn1/3Ni1/3Co1/3O2 cathode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 1593-1604	2.6	3
77	Solid Phase FePC Catalysts for Increased Stability of Oxygen Reduction Reaction Intermediates at the Cathode/Electrolyte Interface in Lithium Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A760-A769	3.9	8
76	Resolving the Iron Phthalocyanine Redox Transitions for ORR Catalysis in Aqueous Media. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 2881-2886	6.4	52
75	In Situ Formed Layered-Layered Metal Oxide as Bifunctional Catalyst for Li-Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2464-A2474	3.9	6
74	Comment on "Cycling Li-Olbatteries via LiOH formation and decomposition". Science, 2016, 352, 667	33.3	35
73	A Search for the Optimum Lithium Rich Layered Metal Oxide Cathode Material for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A1236-A1245	3.9	30
72	A high rate Li-rich layered MNC cathode material for lithium-ion batteries. RSC Advances, 2015, 5, 27375	5-3 <del>.7</del> 38	643
71	A Study of the Influence of Lithium Salt Anions on Oxygen Reduction Reactions in Li-Air Batteries. Journal of the Electrochemical Society, <b>2015</b> , 162, A1055-A1066	3.9	80
70	Economic analysis of CNT lithium-ion battery manufacturing. <i>Environmental Science: Nano</i> , <b>2015</b> , 2, 463-	-47.6	10
69	Electrolyte-Directed Reactions of the Oxygen Electrode in Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A3021-A3031	3.9	113
68	Prospects and Limits of Energy Storage in Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 830-4	<b>1€</b> .4	197
67	Mitigation of Layered to Spinel Conversion of a Li-Rich Layered Metal Oxide Cathode Material for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A290-A301	3.9	158
66	Solvent-Coupled Catalysis of the Oxygen Electrode Reactions in Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A1706-A1715	3.9	33
65	Microelectrode Diagnostics of Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A381-A392	3.9	41

## (2011-2014)

64	A Layered Carbon Nanotube Architecture for High Power Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A989-A995	3.9	17
63	A Li-Rich Layered Cathode Material with Enhanced Structural Stability and Rate Capability for Li-on Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A355-A363	3.9	71
62	Lithium Batteries: from early stages to the future <b>2013</b> , 21-38		6
61	Kinetics of the Oxygen Electrode in LithiumAir Cells <b>2013</b> , 233-264		
60	Rechargeable Sodium and Sodium-Ion Batteries <b>2013</b> , 349-367		1
59	Aqueous LithiumAir Systems <b>2013</b> , 191-215		
58	Electrolytes for Lithium-Ion Batteries with High-Voltage Cathodes <b>2013</b> , 71-87		2
57	Cobalt Phthalocyanine Catalyzed Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1577-A1586	3.9	41
56	Studies of Li-Air Cells Utilizing Dimethyl Sulfoxide-Based Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A259-A267	3.9	224
55	LithiumAir and Other Batteries Beyond Lithium-Ion Batteries <b>2013</b> , 161-190		3
54	Additives in Organic Electrolytes for Lithium Batteries <b>2013</b> , 39-70		4
53	Electronic Effects of Substituents on Redox Shuttles for Overcharge Protection of Li-ion Batteries. Journal of the Electrochemical Society, <b>2012</b> , 159, A1057-A1064	3.9	31
52	. Journal of Physical Chemistry C, <b>2012</b> , 116, 20755-20764	3.8	183
51	Rechargeable Batteries for the 300-Mile Electric Vehicle and Beyond. ECS Transactions, 2012, 41, 27-34	1	8
50	Li2-xFe0.5(VO)0.5(PO4)F0.5, a New Mixed Metal Phosphate Cathode Material. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A1659-A1663	3.9	3
49	Lithium-air and lithium-sulfur batteries. MRS Bulletin, <b>2011</b> , 36, 506-512	3.2	255
48	Oxygen Electrode Rechargeability in an Ionic Liquid for the LiAir Battery. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2420-2424	6.4	139
47	Rechargeable Lithium/TEGDME-LiPF[sub 6]D[sub 2] Battery. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, A302	3.9	385

46	Synthesis, Structure and Electrochemistry of Lithium Vanadium Phosphate Cathode Materials. Journal of the Electrochemical Society, <b>2011</b> , 158, A1250	3.9	56
45	Influence of Nonaqueous Solvents on the Electrochemistry of Oxygen in the Rechargeable LithiumAir Battery. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 9178-9186	3.8	787
44	A Solid-State, Rechargeable, Long Cycle Life LithiumAir Battery. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A50	3.9	220
43	Elucidating the Mechanism of Oxygen Reduction for Lithium-Air Battery Applications. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 20127-20134	3.8	564
42	High Power Lithium Ion Battery Facilitated by an Advanced Cathode 2008,		1
41	The Role of Carbonate Solvents on Lithium Intercalation into Graphite. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A185	3.9	32
40	A Brief History of Non-Aqueous Metal-Air Batteries. ECS Transactions, 2006, 3, 67-71	1	48
39	Additives for Stabilizing LiPF[sub 6]-Based Electrolytes Against Thermal Decomposition. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1361	3.9	92
38	Formation and Growth of Surface Films on Graphitic Anode Materials for Li-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A128		57
37	Suppression of Toxic Compounds Produced in the Decomposition of Lithium-Ion Battery Electrolytes. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A194		127
36	The Li4Ti5 O 12/PAN Electrolyte// LiMn2 O 4 Rechargeable Battery with Passivation-Free Electrodes. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 2615-2622	3.9	41
35	Discharge Rate Capability of the LiCoO2 Electrode. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 482-486	3.9	53
34	Preparation and Battery Applications of Micron Sized Li4Ti5O2. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 496, 359		
33	Characterization of Some Polyacrylonitrile-Based Electrolytes. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 369-379	9.6	129
32	Highly Conductive PEO-like Polymer Electrolytes. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1978-1988	9.6	367
31	A Polymer Electrolyte-Based Rechargeable Lithium/Oxygen Battery. <i>Journal of the Electrochemical Society</i> , <b>1996</b> , 143, 1-5	3.9	1780
30	Preparation and Electrochemical Characterization of Micron-Sized Spinel LiMn2 O 4. <i>Journal of the Electrochemical Society</i> , <b>1996</b> , 143, 1591-1598	3.9	66
29	The Electrochemical Intercalation of Li into Graphite in Li/Polymer Electrolyte/Graphite Cells. <i>Journal of the Electrochemical Society</i> , <b>1995</b> , 142, 333-340	3.9	101

28	Synthesis, characterization, and lithium battery applications of molybdenum oxysulfides. <i>Chemistry of Materials</i> , <b>1993</b> , 5, 1233-1241	9.6	5
27	Highly conductive polymer electrolytes <b>1993</b> , 75-112		31
26	Dimensionally stable MEEP-based polymer electrolytes and solid-state lithium batteries. <i>Chemistry of Materials</i> , <b>1991</b> , 3, 339-348	9.6	52
25	n-Butylferrocene for Overcharge Protection of Secondary Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>1990</b> , 137, 1856-1857	3.9	81
24	Preparation and Characterization of Some Lithium Insertion Anodes for Secondary Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>1990</b> , 137, 743-749	3.9	63
23	Li+-Conductive Solid Polymer Electrolytes with Liquid-Like Conductivity. <i>Journal of the Electrochemical Society</i> , <b>1990</b> , 137, 1657-1658	3.9	339
22	Polyphosphazene-Poly(Olefin Oxide) Mixed Polymer Electrolytes: I . Conductivity and Thermal Studies of. <i>Journal of the Electrochemical Society</i> , <b>1989</b> , 136, 3576-3582	3.9	46
21	Rechargeable Solid-State Li Batteries Utilizing Polyphosphazene-Poly(Ethylene Oxide) Mixed Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>1988</b> , 135, 535-536	3.9	35
20	Characterization of Li / SO 2Cl2 and Li / 🛮 SO 2Cl2 + Cl2 🗷 Cells. <i>Journal of the Electrochemical Society</i> , <b>1988</b> , 135, 2917-2922	3.9	3
19	Some Chemistry in the Li / ? SOCl2 + BrCl? Cell. Journal of the Electrochemical Society, 1988, 135, 2686-	-2,691	5
18	Li / MoSe3 S Secondary Battery. <i>Journal of the Electrochemical Society</i> , <b>1987</b> , 134, 2661-2665	3.9	10
17	The Lithium Surface Film in the Li / SO 2 Cell. <i>Journal of the Electrochemical Society</i> , <b>1986</b> , 133, 1307-13	<b>13</b> .9	66
16	Mixed Ether Electrolytes for Secondary Lithium Batteries with Improved Low Temperature Performance. <i>Journal of the Electrochemical Society</i> , <b>1986</b> , 133, 661-666	3.9	44
15	Lithium Organic Liquid Electrolyte Batteries <b>1985</b> , 337-349		
14	Non-Electrical Techniques of Cell Characterization <b>1985</b> , 283-296		
13	Moderate Temperature Sodium Cells: V . Discharge Reactions and Rechargeability of and Positive Electrodes in Molten. <i>Journal of the Electrochemical Society</i> , <b>1984</b> , 131, 2211-2217	3.9	10
12	Reactions at the Anode during Storage of Partially Discharged Li / SO 2 Cells. <i>Journal of the Electrochemical Society</i> , <b>1983</b> , 130, 1618-1620	3.9	7
11	Rechargeability of the Ambient Temperature Cell Li/2Me-THF, LiAsF6 / Cr0.5 V 0.5 S 2. <i>Journal of the Electrochemical Society</i> , <b>1983</b> , 130, 2309-2314	3.9	14

10	Characterization of Reactions and Products of the Discharge and Forced Overdischarge of Li / SO 2 Cells. <i>Journal of the Electrochemical Society</i> , <b>1982</b> , 129, 1857-1861	3.9	44
9	Characterization of Ether Electrolytes for Rechargeable Lithium Cells. <i>Journal of the Electrochemical Society</i> , <b>1982</b> , 129, 2404-2409	3.9	65
8	Moderate Temperature Na Cells: III . Electrochemical and Structural Studies of and Its Na Intercalates. <i>Journal of the Electrochemical Society</i> , <b>1981</b> , 128, 2574-2577	3.9	6
7	Moderate Temperature Na Cells: II . Transition Metal Diselenide Cathodes. <i>Journal of the Electrochemical Society</i> , <b>1981</b> , 128, 1060-1062	3.9	6
6	Moderate Temperature Na Cells: IV . and as Rechargeable Cathodes in Molten. <i>Journal of the Electrochemical Society</i> , <b>1981</b> , 128, 2700-2702	3.9	4
5	Rechargeable Lithium/Vanadium Oxide Cells Utilizing 2Me - THF / LiAsF6. <i>Journal of the Electrochemical Society</i> , <b>1981</b> , 128, 2493-2501	3.9	75
4	Some Chemistry in the Li / SOCl2 Cell. <i>Journal of the Electrochemical Society</i> , <b>1980</b> , 127, 2091-2096	3.9	36
3	Moderate Temperature Sodium Cells: I . Transition Metal Disulfide Cathodes. <i>Journal of the Electrochemical Society</i> , <b>1980</b> , 127, 2545-2550	3.9	20
2	A Lithium/Dissolved Sulfur Battery with an Organic Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>1979</b> , 126, 523-527	3.9	496
1	Synthesis of heteropolymetallic silanes. <i>Inorganic Chemistry</i> , <b>1973</b> , 12, 2850-2856	5.1	29