Robert P Lynch

List of Publications by Year
in descending order

44 papers	588 citations	840776 11 h-index	610901 24 g-index
44 all docs	44 docs citations	44 times ranked	900 citing authors

#	Article	IF	Citations
1	A Photo-Electrochemical Investigation of Self-Organized TiO[sub 2] Nanotubes. Journal of the Electrochemical Society, 2010, 157, G76.	2.9	139
2	Thermoelectric properties of electrospun carbon nanofibres derived from lignin. International Journal of Biological Macromolecules, 2019, 121, 472-479.	7.5	101
3	Towards Optical Monitoring of Vanadium Redox Flow Batteries (VRFBs): An Investigation of the Underlying Spectroscopy. Journal of the Electrochemical Society, 2014, 161, A524-A534.	2.9	64
4	Spectroscopic Measurement of State of Charge in Vanadium Flow Batteries with an Analytical Model of V^{IV}-V^VAbsorbance. Journal of the Electrochemical Society, 2016, 163, A5068-A5083.	2.9	58
5	Anodic growth of self-ordered magnesium oxy-fluoride nanoporous/tubular layers on Mg alloy (WE43). Electrochemistry Communications, 2010, 12, 796-799.	4.7	35
6	Effect of Pretreatment on the Rate of the VO2+/VO2+ and V2+/V3+ Reactions at a Carbon Electrode. ECS Transactions, 2014, 61, 15-26.	0.5	20
7	The effect of linker of electrodes prepared from solâ€“gel ionic liquid precursor and carbon nanoparticles on dioxygen electroreduction bioelectrocatalysis. Electrochimica Acta, 2011, 56, 10306-10312.	5.2	16
8	Propagation of nanopores during anodic etching of n-InP in KOH. Physical Chemistry Chemical Physics, 2013, 15, 15135.	2.8	14
9	Effects of Temperature and Composition on Catholyte Stability in Vanadium Flow Batteries: Measurement and Modeling. Journal of the Electrochemical Society, 2017, 164, A2101-A2109.	2.9	13
10	Communicationâ€”Observation of Arrhenius Behavior of Catholyte Stability in Vanadium Flow Batteries. Journal of the Electrochemical Society, 2016, 163, A2919-A2921.	2.9	12
11	Energy Sources and Supply Grids â€“ The Growing Need for Storage. Issues in Environmental Science and Technology, 2018, , 1-41.	0.4	12
12	Pore Propagation Directions and Nanoporous Domain Shape in n-InP Anodized in KOH. Journal of the Electrochemical Society, 2013, 160, D260-D270.	2.9	11
13	Electrochemical Energy Storage. Issues in Environmental Science and Technology, 2018, , 115-149.	0.4	11
14	Protein-mediated synthesis of antibacterial silver nanoparticles deposited on titanium dioxide nanotube arrays. Mikrochimica Acta, 2012, 177, 129-135.	5.0	9
15	Conductivity of Vanadium Flow Battery (VFB) Catholytes: Dependence on Sulfur and Vanadium Concentration and Temperature. ECS Transactions, 2017, 80, 3-14.	0.5	7
16	Measurement and Computer Simulation of Catholyte Stability in Vanadium Flow Batteries (VFBs). Journal of the Electrochemical Society, 2018, 165, A3263-A3274.	2.9	7
17	Nanoporous Domains in n-InP Anodized in KOH. ECS Transactions, 2007, 6, 355-366.	0.5	6
18	Arrhenius Variation of Precipitation Time for VVin Vanadium Flow Batteries. ECS Transactions, 2017, 75, 49-63.	0.5	6

#	Article	IF	Citations
19	Measurements of VV Precipitation Times and Simulation of the Stability of Catholytes in Vanadium Flow Batteries. MRS Advances, 2017, 2, 1177-1182.	0.9	5
20	Communicationâ€"A New Additive for Increased Stabilization of Catholytes in Vanadium Flow Batteries (VFBs). Journal of the Electrochemical Society, 2019, 166, A2270-A2272.	2.9	5
21	Effect of Additives on the Kinetics of Precipitation of V V from Catholytes in Vanadium Flow Batteries. ECS Transactions, 2017, 77, 107-115.	0.5	4
22	Water Affinity of Vanadium Electrolytes. ECS Transactions, 2018, 85, 175-189.	0.5	4
23	Modelling and Accelerated Testing of Catholyte Stability in Vanadium Flow Batteries. Journal of the Electrochemical Society, 2021, 168, 030530.	2.9	4
24	In-situ Observation of Pore Formation and Photoelectrochemical Etching in n-InP. ECS Transactions, 2007, 6, 331-343.	0.5	3
25	Electrochemical Pore Formation in InP: Understanding and Controlling Pore Morphology. ECS Transactions, 2017, 75, 29-43.	0.5	3
26	Process of Formation of Porous Layers in n-InP. ECS Transactions, 2017, 77, 67-96.	0.5	3
27	Effect of Electrochemical Treatment of Glassy Carbon Electrodes on Electrode Surface and Vanadium IV -Vanadium V Kinetics. ECS Transactions, 2017, 77, 117-128.	0.5	3
28	Electrolyte Stability in Vanadium Flow Batteries. MRS Advances, 2018, 3, 3201-3212.	0.9	3
29	(Invited) Factors Influencing the Performance of Vanadium Flow Batteries: Electrodes and Electrolytes. ECS Transactions, 2020, 98, 223-239.	0.5	3
30	Anodic Formation of Nanoporous Indium Phosphide in KOH Electrolytes: Effects of Temperature and Concentration. Journal of the Electrochemical Society, 2019, 166, H3097-H3106.	2.9	2
31	A Study of the Photoelectrochemical Etching of n-GaN in H₃PO₄ and KOH Electrolytes. ECS Journal of Solid State Science and Technology, 2020, 9, 015003.	1.8	2
32	Current-Line Oriented Pore Formation in n-InP Anodized in KOH. ECS Meeting Abstracts, 2012, , .	0.0	1
33	The Effect of Temperature and Electrolyte Concentration on Porous Layers Formed on InP in KOH. ECS Meeting Abstracts, 2012, , .	0.0	1
34	In-Situ Measurements of Stress during Electrodeposition of Copper Nanofilms: Effect of Growth Rate and Additives. ECS Transactions, 2018, 85, 1071-1086.	0.5	1
35	In-SituMeasurements of Stress during Electrodeposition of Copper Nanofilms: Current Interruption Effects, Migration of Atoms and the Effect of Chloride Ions. ECS Transactions, 2017, 75, 1-13.	0.5	0
36	In-SituMeasurements of Stress during Electrodeposition of Copper Nanofilms: Effects of Deposition Rate and Grain Size. ECS Transactions, 2017, 80, 733-747.	0.5	0

#	Article	IF	Citations
37	(Invited) Electrochemical Formation of Nanoporous Indium Phosphide in KOH Electrolytes. ECS Transactions, 2018, 86, 15-35.	0.5	0
38	Etching Mechanisms in III-V Semiconductors: Electrochemical Etching of Indium Phosphide. ECS Transactions, 2019, 92, 1-17.	0.5	0
39	Electrical Storage. Issues in Environmental Science and Technology, 2018, , 150-183.	0.4	0
40	Accelerated Testing of Vanadium Catholyte Stability. ECS Transactions, 2020, 97, 223-236.	0.5	0
41	The Effect of the Upper and Lower Electrochemical Treatment Potentials on the Electrode Activity Towards Vanadium Redox Couples. ECS Meeting Abstracts, 2021, MA2021-02, 1956-1956.	0.0	0
42	(Invited) Development of Nanoporous Structures and Oscillatory Behavior During Anodization of n-InP in Alkaline Electrolytes. ECS Transactions, 2020, 98, 89-106.	0.5	0
43	(Invited) Development of Nanoporous Structures and Oscillatory Behavior During Anodization of n-InP in Alkaline Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 1214-1214.	0.0	0
44	(Invited) Factors Influencing the Performance of Vanadium Flow Batteries: Electrodes and Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 2672-2672.	0.0	0