

Lakshman Neelakantan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electrochemical and semiconducting properties of thin passive film formed on titanium in chloride medium at various pH conditions. <i>Thin Solid Films</i> , 2016, 598, 260-270.	0.8	85
2	Influence of crystallite size and surface morphology on electrochemical properties of annealed TiO ₂ nanotubes. <i>Applied Surface Science</i> , 2015, 355, 1245-1253.	3.1	63
3	Solubility effects of Sn and Ga on the microstructure and corrosion behavior of Al-Mg-Sn-Ga alloy anodes. <i>Journal of Alloys and Compounds</i> , 2016, 683, 647-653.	2.8	51
4	Role of crystallinity on the nanomechanical and electrochemical properties of TiO ₂ nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 770, 73-83.	1.9	40
5	Titania nanotubes from weak organic acid electrolyte: Fabrication, characterization and oxide film properties. <i>Materials Science and Engineering C</i> , 2015, 49, 567-578.	3.8	39
6	Selective surface oxidation and nitridation of NiTi shape memory alloys by reduction annealing. <i>Corrosion Science</i> , 2009, 51, 635-641.	3.0	37
7	Rotating disc electrode study of the electropolishing mechanism of NiTi in methanolic sulfuric acid. <i>Electrochimica Acta</i> , 2007, 53, 915-919.	2.6	28
8	Low-nickel austenitic stainless steel as an alternative to 316L bipolar plate for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12413-12423.	3.8	24
9	Electro-dissolution of 30Nb–Ti alloys in methanolic sulfuric acid—Optimal conditions for electropolishing. <i>Electrochimica Acta</i> , 2011, 56, 6678-6682.	2.6	20
10	Imidazolium-based ionic liquids as an anticorrosive agent for completion fluid design. <i>Journal of Earth Science (Wuhan, China)</i> , 2017, 28, 949-961.	1.1	20
11	Selective de-alloying of NiTi by oxochloridation. <i>Corrosion Science</i> , 2008, 50, 1368-1375.	3.0	16
12	Design and fabrication of a bending rotation fatigue test rig for <i>in situ</i> electrochemical analysis during fatigue testing of NiTi shape memory alloy wires. <i>Review of Scientific Instruments</i> , 2013, 84, 035102.	0.6	16
13	Surface chemistry and topographical changes of an electropolished NiTi shape memory alloy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 807-811.	0.8	13
14	Corrosion behavior of polymer-derived SiHfCN(O) ceramics in salt and acid environments. <i>Ceramics International</i> , 2015, 41, 10659-10669.	2.3	13
15	Influence of Cu, Zn and Si alloying elements on Al alloy foams produced using Mg blowing agent. <i>Journal of Materials Science</i> , 2021, 56, 2612-2630.	1.7	11
16	Electrochemical Investigation on the Inhibitive Nature of Barrier Layer on the Growth Rate of TiO ₂ Nanotube Arrays. <i>Journal of the Electrochemical Society</i> , 2018, 165, E521-E526.	1.3	9
17	Initiation of Stress Corrosion Cracking in Cold-Drawn Prestressing Steel in Hardened Cement Mortar Exposed to Chlorides. <i>Corrosion</i> , 2021, 77, 906-922.	0.5	9
18	Corrosion characteristics and fuel cell performance of a cost-effective high Mn–Low Ni austenitic stainless steel as an alternative to SS 316L bipolar plate. <i>International Journal of Energy Research</i> , 2020, 44, 6804-6818.	2.2	8

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19	Nano-sized cerium vanadium oxide as corrosion inhibitor: A microstructural and release study. <i>Electrochimica Acta</i> , 2022, 425, 140696.	2.6	8
20	On the Electropolishing Mechanism of Nickel Titanium in Methanolic Sulfuric acid – An Electrochemical Impedance Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800011.	0.8	7
21	Exploring in situ integration of pongamia oil to improve barrier properties of polyurethane coatings. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49553.	1.3	7
22	Electrochemical Determination of Paraquat Using Gold Nanoparticle Incorporated Multiwalled Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 047522.	1.3	7
23	Role of Crystallographic Texture and Crystallinity on the Electrochemical Behavior of Nanocrystalline Sr Doped Calcium Phosphate Coatings. <i>Journal of the Electrochemical Society</i> , 2016, 163, D336-D343.	1.3	6
24	Enhanced capacity of SnCoC anode by melt spinning and ball milling for Li-ion battery. <i>Materials Today Communications</i> , 2017, 13, 53-56.	0.9	6
25	An in situ tensile tester for studying electrochemical repassivation behavior: Fabrication and challenges. <i>Review of Scientific Instruments</i> , 2010, 81, 033902.	0.6	5
26	Note: Design and fabrication of a simple versatile microelectrochemical cell and its accessories. <i>Review of Scientific Instruments</i> , 2015, 86, 096101.	0.6	4
27	On the corrosion behavior of Al ₂ Cu by local electrochemical impedance spectroscopy using droplet cell microscopy. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 603-609.	1.2	4
28	Correlating corrosion inhibition to grain size in electrodeposited Ni-18Co. <i>Emergent Materials</i> , 2020, 3, 989-997.	3.2	4
29	Electropolishing of a Nickel–Titanium–Copper Shape Memory Alloy in Methanolic Sulfuric Acid. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, C1.	2.2	3
30	Electrospun 1D Ta ₃ N ₅ -(O) nanofibers as advanced electrocatalysts for hydrogen evolution reaction in proton exchange membrane water electrolyser. <i>Open Ceramics</i> , 2022, 10, 100267.	1.0	2
31	Communication – Local Electrochemical Study Using Droplet Cell Microscopy on a Rough Surface. <i>Journal of the Electrochemical Society</i> , 2016, 163, C704-C706.	1.3	1
32	Structural and electrochemical properties of (Sn _x Co _{100-x}) ₅₀ C ₅₀ anodes for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2019, 236, 121782.	2.0	1
33	On the influence of ball milling time on the structure and electrochemical performance of (Sn ₇₁ Co ₂₉) ₅₀ C ₅₀ wt % anodes for Li-ion battery applications. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 0, , 1-16.	1.1	0