

Visweswara C Gudla

List of Publications by Citations

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31
papers

300
citations

11
h-index

15
g-index

32
ext. papers

359
ext. citations

4.5
avg, IF

3.42
L-index

#	Paper	IF	Citations
31	Interface strength and degradation of adhesively bonded porous aluminum oxides. <i>Npj Materials Degradation</i> , 2017 , 1,	5.7	23
30	Friction stir processed Al/TiO ₂ surface composites: Anodising behaviour and optical appearance. <i>Applied Surface Science</i> , 2015 , 324, 554-562	6.7	22
29	Accelerated growth of oxide film on aluminium alloys under steam: Part I: Effects of alloy chemistry and steam vapour pressure on microstructure. <i>Surface and Coatings Technology</i> , 2015 , 276, 77-88	4.4	20
28	Humidity Build-Up in a Typical Electronic Enclosure Exposed to Cycling Conditions and Effect on Corrosion Reliability. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2016 , 6, 1379-1388	1.7	20
27	In-situ TEM investigation of microstructural evolution in magnetron sputtered Al ₂ O ₃ and Al ₂ O ₃ /Si coatings during heat treatment. <i>Materials and Design</i> , 2016 , 89, 1071-1078	8.1	17
26	Anodisation of sputter deposited aluminium/titanium coatings: Effect of microstructure on optical characteristics. <i>Surface and Coatings Technology</i> , 2014 , 254, 138-144	4.4	16
25	A comparative study on wear behavior of TiN and diamond coated WC/Co substrates against hypereutectic Al/Si alloys. <i>Applied Surface Science</i> , 2012 , 261, 520-527	6.7	14
24	Structure of anodized Al ₂ O ₃ sputter deposited coatings and effect on optical appearance. <i>Applied Surface Science</i> , 2014 , 317, 1113-1124	6.7	13
23	Electrochemical profiling of multi-clad aluminium sheets used in automotive heat exchangers. <i>Corrosion Science</i> , 2018 , 131, 28-37	6.8	13
22	High frequency anodising of aluminium/TiO ₂ surface composites: Anodising behaviour and optical appearance. <i>Surface and Coatings Technology</i> , 2015 , 277, 67-73	4.4	12
21	Microstructure and corrosion performance of steam-based conversion coatings produced in the presence of TiO ₂ particles on aluminium alloys. <i>Surface and Coatings Technology</i> , 2016 , 296, 1-12	4.4	12
20	Graphene nanoclusters embedded nickel cobaltite nanofibers as multifunctional electrocatalyst for glucose sensing and water-splitting applications. <i>Ceramics International</i> , 2019 , 45, 25078-25091	5.1	11
19	Effect of High Frequency Pulsing on the Interfacial Structure of Anodized Aluminium-TiO ₂ . <i>Journal of the Electrochemical Society</i> , 2015 , 162, C303-C310	3.9	11
18	Investigation of moisture uptake into printed circuit board laminate and solder mask materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 6138-6151	2.1	8
17	Steam assisted oxide growth on aluminium alloys using oxidative chemistries: Part I Microstructural investigation. <i>Applied Surface Science</i> , 2015 , 355, 820-831	6.7	8
16	High frequency pulse anodising of magnetron sputtered Al ₂ O ₃ and Al/Ti Coatings. <i>Materials and Design</i> , 2016 , 95, 340-347	8.1	8
15	Polymorph nickel titanate nanofibers as bifunctional electrocatalysts towards hydrogen and oxygen evolution reactions. <i>Dalton Transactions</i> , 2019 , 48, 12684-12698	4.3	8

14	Simulation of reflectance from white-anodised aluminium surfaces using polyurethane//iO2 composite coatings. <i>Journal of Materials Science</i> , 2015 , 50, 4565-4575	4.3	8
13	Band gap tuning of amorphous Al oxides by Zr alloying. <i>Applied Physics Letters</i> , 2016 , 109, 091902	3.4	8
12	Corrosion failure analysis of hearing aid battery-spring contacts. <i>Engineering Failure Analysis</i> , 2017 , 79, 980-987	3.2	7
11	Initiation and short crack growth behaviour of environmentally induced cracks in AA5083 H131 investigated across time and length scales. <i>Corrosion Reviews</i> , 2019 , 37, 469-481	3.2	7
10	Environmentally induced crack (EIC) initiation, propagation, and failure: A 3D in-situ time-lapse study of AA5083 H131. <i>Corrosion Science</i> , 2020 , 174, 108834	6.8	6
9	A Mechanistic Study on the Structure Formation of NiCo2O4 Nanofibers Decorated with In Situ Formed Graphene-Like Structures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 1885-1900	3.2	5
8	Influence of de-icing salt chemistry on the corrosion behavior of AA6016. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018 , 69, 881-887	1.6	5
7	High frequency pulse anodising of aluminium: Anodising kinetics and optical appearance. <i>Surface and Coatings Technology</i> , 2019 , 360, 222-231	4.4	5
6	Fluoride-Induced Interfacial Adhesion Loss of Nanoporous Anodic Aluminum Oxide Templates in Aerospace Structures. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6139-6149	5.6	5
5	Characterization of blisters on powder coated aluminium AA5006 architectural profiles. <i>Engineering Failure Analysis</i> , 2019 , 103, 347-360	3.2	4
4	High frequency pulse anodising of recycled 5006 aluminium alloy for optimised decorative appearance. <i>Surface and Coatings Technology</i> , 2019 , 368, 42-50	4.4	3
3	On the microstructural and electrochemical nature of hydrothermally treated Al-Zr and Al-Ti surfaces. <i>Corrosion Science</i> , 2020 , 163, 108244	6.8	1
2	Microstructure-dependent corrosion of herringbone-grooved embossed Al//1.1 wt% Mn strips for heat exchanger tubes. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021 , 72, 1582	1.6	0
1	Anodization and Optical Appearance of Sputter Deposited Al-Zr Coatings 2014 , 369-373		