Sampathkumar Chrisolite Vanithakuma

List of Publications by Year
in descending order

38 papers	883 citations	516681 16 h-index	477281 29 g-index
39 all docs	39 docs citations	39 times ranked	931 citing authors

#	Article	IF	Citations
1	A Oneâ€Step Method for the Growth of Ga₂O₃â€Nanorodâ€Based Whiteâ€Lightâ€Emitting Phosphors. Advanced Materials, 2009, 21, 3581-3584.	21.0	120
2	A simple, rapid and single step method for fabricating superhydrophobic titanium surfaces with improved water bouncing and self cleaning properties. Applied Surface Science, 2020, 512, 145636.	6.1	88
3	Template-Free One-Step Electrodeposition Method for Fabrication of Robust Superhydrophobic Coating on Ferritic Steel with Self-Cleaning Ability and Superior Corrosion Resistance. Langmuir, 2019, 35, 12665-12679.	3.5	79
4	Graphene oxide-chitosan-silver composite coating on Cu-Ni alloy with enhanced anticorrosive and antibacterial properties suitable for marine applications. Progress in Organic Coatings, 2020, 139, 105444.	3.9	62
5	A universal relation for the cohesive energy of nanoparticles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6930-6934.	2.1	52
6	Fabrication of superhydrophobic titanium surfaces with superior antibacterial properties using graphene oxide and silanized silica nanoparticles. Surface and Coatings Technology, 2020, 400, 126074.	4.8	44
7	Phenomenological Predictions of Cohesive Energy and Structural Transition of Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 1033-1037.	2.6	39
8	Facile fabrication of robust superhydrophobic aluminum surfaces with enhanced corrosion protection and antifouling properties. Progress in Organic Coatings, 2022, 162, 106560.	3.9	36
9	Influence of silanes on the wettability of anodized titanium. Applied Surface Science, 2014, 292, 650-657.	6.1	34
10	Studies to control biofilm formation by coupling ultrasonication of natural waters and anodization of titanium. Ultrasonics Sonochemistry, 2014, 21, 189-199.	8.2	33
11	Enhancement of Corrosion Performance of Titanium by Micro-Nano Texturing. Corrosion, 2013, 69, 804-812.	1.1	26
12	Studies on the influence of surface morphology of ZnO nail beds on easy roll off of water droplets. Applied Surface Science, 2015, 347, 839-848.	6.1	22
13	Superhydrophobic coating on modified 9Cr â€“ 1Mo ferritic steel using perfluoro octyl triethoxy silane. Surface Engineering, 2016, 32, 139-146.	2.2	19
14	Fabrication of superhydrophobic and self cleaning<scp>PVAâ€silica</scp>fiber coating on<scp>304L SS</scp>surfaces by electrospinning. Journal of Applied Polymer Science, 2021, 138, 50118.	2.6	19
15	Nanoparticles of Pt loaded on a vertically aligned TiO₂ nanotube bed: synthesis and evaluation of electrocatalytic activity. RSC Advances, 2015, 5, 108050-108057.	3.6	18
16	Environmental Stability and Long-Term Durability of Superhydrophobic Coatings on Titanium. Journal of Materials Engineering and Performance, 2017, 26, 2640-2648.	2.5	17
17	Controlled synthesis of CuO nanostructures on Cu foil, rod and grid. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 669-678.	3.5	16
18	Anodic Electrophoretic Deposition of Graphene Oxide on 316L Stainless Steel with pH-Dependent Microstructures. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	2.6	15

#	Article	IF	Citations
19	Graphene oxide/polyvinylpyrrolidone composite coating on 316L SS with superior antibacterial and anti-biofouling properties. Progress in Organic Coatings, 2021, 158, 106356.	3.9	14
20	A simple approach for fabrication of superhydrophobic titanium surface with self-cleaning and bouncing properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128110.	4.7	14
21	Electrophoretically deposited graphene oxideâ€“polymer bilayer coating on Cu-Ni alloy with enhanced corrosion resistance in simulated chloride environment. Journal of Coatings Technology Research, 2019, 16, 1317-1335.	2.5	13
22	Lotus effect-based coatings on marine steels to inhibit biofouling. Surface Innovations, 2015, 3, 115-126.	2.3	11
23	Development and performance evaluation of nano platinum coated titanium electrode for application in nitric acid medium. Materials Chemistry and Physics, 2015, 151, 133-139.	4.0	11
24	Controlled Growth of ZnO Tetrapods: Influence of Temperature and Temperature Gradient. Current Nanoscience, 2010, 6, 99-102.	1.2	10
25	Synthesis of one-dimensional N-doped Ga2O3 nanostructures: different morphologies and different mechanisms. Bulletin of Materials Science, 2011, 34, 1331-1338.	1.7	10
26	Synthesis and Characterization of Nanostructured Platinum Coated Titanium as Electrode Material. Journal of Materials Engineering and Performance, 2014, 23, 1673-1679.	2.5	10
27	Novel ultraviolet emitting low energy nitrogen ion implanted magnesium ion incorporated nanocrystalline calcium phosphate. Materials Letters, 2015, 153, 182-185.	2.6	8
28	Development of hydrophobic cupronickel surface with biofouling resistance by sandblasting. Surface and Coatings Technology, 2018, 345, 89-95.	4.8	8
29	Porous Microcapsule-Based Regenerating Superhydrophobic Coating on 304L SS and Its Corrosion Properties. Journal of Materials Engineering and Performance, 2019, 28, 7047-7057.	2.5	8
30	Development of Superhydrophobic Coating on Copper for Enhanced Corrosion Resistance in Chloride Medium. Transactions of the Indian Institute of Metals, 2019, 72, 1133-1143.	1.5	7
31	Superhydrophobic Coating on Mod.9Cr-1Mo Ferritic Steel for Enhancing Corrosion Resistance and Antibacterial Activity. Transactions of the Indian Institute of Metals, 2016, 69, 1311-1318.	1.5	6
32	Synthesis of One-Dimensional ZnO Nanostructures from Zn Powder/Granule. Journal of Nanoscience and Nanotechnology, 2009, 9, 2061-2065.	0.9	4
33	Probing the Stability of Superhydrophobic (SHP) Silane Coating on Anodized Ti Substrate Using Kelvin Probe Force Microscope (KPFM). Transactions of the Indian Institute of Metals, 2019, 72, 3045-3055.	1.5	4
34	Active Nano Metal Oxide Coating for Bio-fouling Resistance. Transactions of the Indian Institute of Metals, 2018, 71, 1323-1329.	1.5	3
35	Failure of Printed Circuit Boards during Storage and Service: Leaked Capacitors and White Residue. Journal of Materials Engineering and Performance, 2020, 29, 6402-6411.	2.5	2
36	Stability and Durability Study of Nano Pt Coated Titanium for Electrode Application. Transactions of the Indian Institute of Metals, 2017, 70, 1689-1696.	1.5	1

#	Article	IF	Citations
37	On the durability of Pt coated Ti electrodes for the electro-oxidative dissolution of spent nuclear fuels. Corrosion Engineering Science and Technology, 2020, 55, 48-56.	1.4	0
38	Fabrication of Nanoporous Alumina Membranes by Single Step Anodization and Their Microscopic Characterization. Journal of Advanced Microscopy Research, 2011, 6, 207-214.	0.3	0