

Ravichandran K

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38
papers

534
citations

14
h-index

22
g-index

38
ext. papers

700
ext. citations

4.5
avg, IF

4.27
L-index

#	Paper	IF	Citations
38	Performance of zinc phosphate coatings obtained by cathodic electrochemical treatment in accelerated corrosion tests. <i>Electrochimica Acta</i> , 2005 , 51, 247-256	6.7	62
37	Formation of zinc phosphate composite coatings by cathodic electrochemical treatment. <i>Surface and Coatings Technology</i> , 2006 , 200, 4117-4126	4.4	61
36	A Facile Method to Modify the Characteristics and Corrosion Behavior of 304 Stainless Steel by Surface Nanostructuring toward Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17731-47	9.5	38
35	Deposition of strontium phosphate coatings on magnesium by hydrothermal treatment: Characteristics, corrosion resistance and bioactivity. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 725-743	5.7	38
34	Formation and characteristics of zinc phosphate coatings obtained by electrochemical treatment: Cathodic vs. anodic. <i>Progress in Organic Coatings</i> , 2009 , 65, 229-236	4.8	35
33	Fabrication and characterization of porous scaffolds for bone replacements using gum tragacanth. <i>Materials Science and Engineering C</i> , 2019 , 96, 487-495	8.3	28
32	New core-shell hydroxyapatite/Gum-Acacia nanocomposites for drug delivery and tissue engineering applications. <i>Materials Science and Engineering C</i> , 2018 , 92, 685-693	8.3	25
31	Tailoring the morphological features of sol-gel synthesized mesoporous hydroxyapatite using fatty acids as an organic modifier.. <i>RSC Advances</i> , 2019 , 9, 6228-6240	3.7	21
30	Load-bearing metallic implants: electrochemical characterisation of corrosion phenomena. <i>Materials Technology</i> , 2016 , 31, 705-718	2.1	20
29	Advanced lithium substituted hydroxyapatite nanoparticles for antimicrobial and hemolytic studies. <i>New Journal of Chemistry</i> , 2019 , 43, 18484-18494	3.6	18
28	Synthesis and characterisation of novel Cu(II)-anchored biopolymer complexes as reusable materials for the photocatalytic degradation of methylene blue. <i>RSC Advances</i> , 2020 , 10, 18259-18279	3.7	16
27	Facile fabrication of phase transformed cerium (IV) doped hydroxyapatite for biomedical applications [A health care approach. <i>Ceramics International</i> , 2020 , 46, 2510-2522	5.1	16
26	A facile electrochemical approach for the deposition of iron-manganese phosphate composite coatings on aluminium. <i>RSC Advances</i> , 2015 , 5, 988-1008	3.7	15
25	Deposition of zinc phosphate composite coatings on steel by cathodic electrochemical treatment 2014 , 11, 431-442		15
24	Influence of iron doping towards the physicochemical and biological characteristics of hydroxyapatite. <i>Ceramics International</i> , 2021 , 47, 5061-5070	5.1	14
23	Saponin-mediated synthesis of hydroxyapatite by hydrothermal method: characteristics, bioactivity, and antimicrobial behavior. <i>Journal of the Australian Ceramic Society</i> , 2019 , 55, 953-967	1.5	11
22	Fabrication of nitrogen-rich graphitic carbon nitride/Cu ₂ O (g-C ₃ N ₄ @Cu ₂ O) composite and its enhanced photocatalytic activity for organic pollutants degradation. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 2257-2268	2.1	11

21	Effect of multilayer CrN/CrAlN coating on the corrosion and contact resistance behavior of 316L SS bipolar plate for high temperature proton exchange membrane fuel cell. <i>Journal of Materials Science and Technology</i> , 2022 , 97, 134-146	9.1	11
20	Crystalline selenite substituted carbonated hydroxyapatite nanorods: Synthesis, characterization, evaluation of bioactivity and cytotoxicity. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 68-76	2	10
19	Protecting electrochemical degradation of pure iron using zinc phosphate coating for biodegradable implant applications. <i>New Journal of Chemistry</i> , 2018 , 42, 18458-18468	3.6	10
18	Multi-element substituted hydroxyapatites: synthesis, structural characteristics and evaluation of their bioactivity, cell viability, and antibacterial activity. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 86, 441-458	2.3	7
17	Surfactant Assisted Hydroxyapatite Nanoparticles: Drug Loading and Leaching Kinetics and Antimicrobial Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 7198-7204	1.3	5
16	Improving the corrosion resistance and bioactivity of magnesium by a carbonate conversion-polycaprolactone duplex coating approach. <i>New Journal of Chemistry</i> , 2020 , 44, 4772-4785	3.6	5
15	Microwave synthesis of hydroxyapatite encumbered with ascorbic acid intended for drug leaching studies. <i>Materials Research Innovations</i> , 2020 , 24, 171-178	1.9	5
14	Nanoformulations of core-shell type hydroxyapatite-coated gum acacia with enhanced bioactivity and controlled drug delivery for biomedical applications. <i>New Journal of Chemistry</i> , 2020 , 44, 7175-7185	3.6	5
13	Drug delivery and antimicrobial studies of chitosan-alginate based hydroxyapatite bioscaffolds formed by the Casein micelle assisted synthesis. <i>Materials Chemistry and Physics</i> , 2021 , 272, 125019	4.4	5
12	Microwave-assisted green synthesis of multi-functional carbon quantum dots as efficient fluorescence sensor for ultra-trace level monitoring of ammonia in environmental water.. <i>Environmental Research</i> , 2021 , 206, 112589	7.9	4
11	Influence of sonication on the physicochemical and biological characteristics of selenium-substituted hydroxyapatites. <i>New Journal of Chemistry</i> , 2020 , 44, 17453-17464	3.6	4
10	Controlling the rate of degradation of Mg using magnesium fluoride and magnesium fluoride-magnesium phosphate duplex coatings. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	4
9	Docking and in vitro molecular biology studies of p-anisidine-appended 1-hydroxy-2-acetonaphthanone Schiff base lanthanum(III) complexes. <i>RSC Advances</i> , 2020 , 10, 16457-16472	3.7	3
8	Spectrophotometric analysis to monitor the corrosion behaviour of magnesium during immersion corrosion testing: A suitable alternative to pH measurement?. <i>Corrosion Science</i> , 2014 , 89, 338-342	6.8	3
7	Development of a novel smart carrier for drug delivery: Ciprofloxacin loaded vaterite/reduced graphene oxide/PCL composite coating on TiO ₂ nanotube coated titanium. <i>Ceramics International</i> , 2022 , 48, 9579-9594	5.1	3
6	Corrosion resistant and conductive TiN/TiAlN multilayer coating on 316L SS: a promising metallic bipolar plate for proton exchange membrane fuel cell. <i>Journal of Materials Science</i> , 2021 , 56, 10575-10596	4.3	2
5	Drug delivery and in vitro biological effects of gum ghatti-modified hydroxyapatite nanoporous composites. <i>Materials Chemistry and Physics</i> , 2021 , 263, 124385	4.4	2
4	Cathodic electrodeposition of zinc-zinc phosphate-calcium phosphate composite coatings on pure iron for biodegradable implant applications. <i>New Journal of Chemistry</i> , 2020 , 44, 6475-6489	3.6	1

- 3 Novel pure TiO_2 and mixed-phase ZnO photocatalysts for enhanced organic dye degradation under both visible light and solar irradiation. *Environmental Research*, **2021**, 205, 112439 7.9 1
- 2 A Hydrothermal Synthesis of Graphene Quantum Dots Modified Carbon Paste Electrode as an Efficient Electro Sensor Towards L-Ascorbic Acid. *Asian Journal of Chemistry*, **2019**, 31, 1362-1368 0.4
- 1 Carbonate Conversion Coatings **2022**, 163-184