

Ravichandran K

List of Publications by Year in descending order

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37
papers

906
citations

430843

18
h-index

477281

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38
all docs

38
docs citations

38
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of zinc phosphate coatings obtained by cathodic electrochemical treatment in accelerated corrosion tests. <i>Electrochimica Acta</i> , 2005, 51, 247-256.	5.2	71
2	Formation of zinc-zinc phosphate composite coatings by cathodic electrochemical treatment. <i>Surface and Coatings Technology</i> , 2006, 200, 4117-4126.	4.8	67
3	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.	5.5	56
4	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.	10.7	50
5	Formation and characteristics of zinc phosphate coatings obtained by electrochemical treatment: Cathodic vs. anodic. <i>Progress in Organic Coatings</i> , 2009, 65, 229-236.	3.9	46
6	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, 17731-17747.	8.0	45
7	Influence of iron doping towards the physicochemical and biological characteristics of hydroxyapatite. <i>Ceramics International</i> , 2021, 47, 5061-5070.	4.8	40
8	Fabrication and characterization of porous scaffolds for bone replacements using gum tragacanth. <i>Materials Science and Engineering C</i> , 2019, 96, 487-495.	7.3	39
9	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.	3.6	38
10	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.	3.6	37
11	Advanced lithium substituted hydroxyapatite nanoparticles for antimicrobial and hemolytic studies. <i>New Journal of Chemistry</i> , 2019, 43, 18484-18494.	2.8	34
12	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.	7.3	32
13	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> , 2022, 206, 112589.	7.5	28
14	Novel pure Ti^{\pm} , Ti^2 , and mixed-phase $\text{Ti}^{\pm}/\text{Ti}^2$ - Bi_2O_3 photocatalysts for enhanced organic dye degradation under both visible light and solar irradiation. <i>Environmental Research</i> , 2022, 205, 112439.	7.5	27
15	Facile fabrication of phase transformed cerium (IV) doped hydroxyapatite for biomedical applications - A health care approach. <i>Ceramics International</i> , 2020, 46, 2510-2522.	4.8	25
16	A facile electrochemical approach for the deposition of iron-manganese phosphate composite coatings on aluminium. <i>RSC Advances</i> , 2015, 5, 988-1008.	3.6	22
17	Load-bearing metallic implants: electrochemical characterisation of corrosion phenomena. <i>Materials Technology</i> , 2016, 31, 705-718.	3.0	22
18	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.	3.7	22

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19	Deposition of zinc-zinc phosphate composite coatings on steel by cathodic electrochemical treatment. <i>Journal of Coatings Technology Research</i> , 2014, 11, 431-442.	2.5	18
20	Protecting electrochemical degradation of pure iron using zinc phosphate coating for biodegradable implant applications. <i>New Journal of Chemistry</i> , 2018, 42, 18458-18468.	2.8	18
21	Microwave synthesis of hydroxyapatite encumbered with ascorbic acid intended for drug leaching studies. <i>Materials Research Innovations</i> , 2020, 24, 171-178.	2.3	18
22	Controlling the rate of degradation of Mg using magnesium fluoride and magnesium fluoride-magnesium phosphate duplex coatings. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 295-312.	11.9	17
23	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.	2.2	16
24	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.	1.9	15
25	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.	4.8	15
26	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.	2.1	12
27	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.	2.8	12
28	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.	4.0	12
29	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.	2.4	8
30	Surfactant Assisted Hydroxyapatite Nanoparticles: Drug Loading and <i>In Vitro</i> Leaching Kinetics and Antimicrobial Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7198-7204.	0.9	8
31	Influence of sonication on the physicochemical and biological characteristics of selenium-substituted hydroxyapatites. <i>New Journal of Chemistry</i> , 2020, 44, 17453-17464.	2.8	7
32	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.	2.8	7
33	Drug delivery and in vitro biological effects of gum ghatti-modified hydroxyapatite nanoporous composites. <i>Materials Chemistry and Physics</i> , 2021, 263, 124385.	4.0	7
34	Docking and <i>in vitro</i> molecular biology studies of <i>p</i> -anisidine-appended 1-hydroxy-2-acetonaphthanone Schiff base lanthanum(III) complexes. <i>RSC Advances</i> , 2020, 10, 16457-16472.	3.6	6
35	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.	2.8	5
36	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.	6.6	4

#	ARTICLE	IF	CITATIONS
37	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.	0.3	0