An overview of recent progress in dental applications o

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Citation Report

#	Article	IF	Citations
1	Optimized synthesis of novel hydroxyapatite/CuO/TiO2 nanocomposite with high antibacterial activity against oral pathogen Streptococcus mutans. Ceramics International, 2021, 47, 33398-33404.	4.8	16
2	Green versus Chemical Precipitation Methods of Preparing Zinc Oxide Nanoparticles and Investigation of Antimicrobial Properties. Journal of Nanomaterials, 2021, 2021, 1-10.	2.7	28
3	Preparation of Bacterial Cellulose Fungicide Nanocomposite Incorporated with MgO Nanoparticles. Journal of Polymers and the Environment, 2022, 30, 2066-2076.	5.0	6
4	Copper/Silver Bimetallic Nanoparticles Supported on Aluminosilicate Geomaterials as Antibacterial Agents. ACS Applied Nano Materials, 2022, 5, 1472-1483.	5.0	20
5	Luminescence Properties of Nano Zinc Oxide Doped with Al(III) Ions Obtained in Microwave-Assisted Hydrothermal Synthesis. Materials, 2022, 15, 1403.	2.9	1
6	Biocompatibility and antibacterial behavior of electrochemically deposited Hydroxyapatite/ZnO porous nanocomposite on NiTi biomedical alloy. Ceramics International, 2022, 48, 16326-16336.	4.8	24
7	Optimized Synthesis of Xanthan gum/ZnO/TiO2Nanocomposite with High Antifungal Activity against Pathogenic Candida albicans. Journal of Nanomaterials, 2022, 2022, 1-10.	2.7	4
8	Optimization of Green Synthesis of Selenium Nanoparticles and Evaluation of Their Antifungal Activity against Oral Candida albicans Infection. Advances in Materials Science and Engineering, 2022, 2022, 1-8.	1.8	12
9	Zinc Oxide Nanoparticles: A Review on Its Applications in Dentistry. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	37
10	Zirconium Oxide Supported Silver Nanocomposites: Synthesis, Characterization and in Vitro Evaluation of Anticancer, Antioxidant, Antibacterial Applications. SSRN Electronic Journal, 0, , .	0.4	0
11	Mechanical and Thermal Stress Analysis of Cervical Resin Composite Restorations Containing Different Ratios of Zinc Oxide Nanoparticles: A 3D Finite Element Study. Materials, 2022, 15, 5504.	2.9	0
12	Current trends and future perspectives on dental nanomaterials â€“ An overview of nanotechnology strategies in dentistry. Journal of King Saud University - Science, 2022, 34, 102231.	3.5	11
13	Optimum Green Synthesis of Silver Nanoparticles with the Highest Antibacterial Activity against Streptococcus mutans Biofilm. Journal of Nanomaterials, 2022, 2022, 1-7.	2.7	1
14	Recent developments in antibacterial or antibiofilm compound coating for biliary stents. Colloids and Surfaces B: Biointerfaces, 2022, 219, 112837.	5.0	6
15	Effect of zirconium oxide nano-coating on frictional resistance of orthodontic wires. Journal of Orthodontic Science, 2022, 11, 35.	0.8	2
16	Comprehensive Review on Metal Nanoparticles Catalyzed Synthesis of Aza- and Oxa-Heterocycles Reported in 2021. Mini-Reviews in Organic Chemistry, 2023, 20, 800-817.	1.3	4
17	Optimization, Structural Characterization, Thermal Properties, and Bactericidal Activity of Novel Alginate/Kaolin/Ag Bionanocomposite against Streptococcus Mutans Biofilm. Journal of Nanomaterials, 2022, 2022, 1-9.	2.7	2
18	Progress on Medical Implant: A Review and Prospects. Journal of Bionic Engineering, 2023, 20, 470-494.	5.0	11

#	Article	IF	Citations
19	Comparative study of effective antibiofilm activity of beneficial microbes-mediated zirconia nanoparticles. Bioprocess and Biosystems Engineering, 2022, 45, 1771-1780.	3.4	0
20	Effectiveness of Se/ZnO NPs in Enhancing the Antibacterial Activity of Resin-Based Dental Composites. Materials, 2022, 15, 7827.	2.9	4
21	Advances of nanoparticles employment in dental implant applications. Applied Surface Science Advances, 2022, 12, 100341.	6.8	19
22	Hemolytic Activity of Nanoparticles as a Marker of Their Hemocompatibility. Micromachines, 2022, 13, 2091.	2.9	11
23	Optimization of Antibacterial, Structures, and Thermal Properties of Alginate-ZrO2 Bionanocomposite by the Taguchi Method. Journal of Nanotechnology, 2022, 2022, 1-9.	3.4	2
24	Metallic and carbonaceous nanoparticles for dentistry applications. Current Opinion in Biomedical Engineering, 2023, 25, 100436.	3.4	4
25	Influence of the Alcohols on the ZnO Synthesis and Its Properties: The Photocatalytic and Antimicrobial Activities. Pharmaceutics, 2022, 14, 2842.	4.5	37
26	Dietary Transfer of Zinc Oxide Nanoparticles Induces Locomotive Defects Associated with GABAergic Motor Neuron Damage in Caenorhabditis elegans. Nanomaterials, 2023, 13, 289.	4.1	5
27	ZnO-NPs-Coated Implants with Osteogenic Properties for Enhanced Osseointegration. Minerals, Metals and Materials Series, 2023, , 288-300.	0.4	14
28	Anticariogenic and Mechanical Characteristics of Resin-Modified Glass Ionomer Cement Containing Lignin-Decorated Zinc Oxide Nanoparticles. ACS Applied Bio Materials, 2023, 6, 425-435.	4.6	2
29	New Technological Approaches for Dental Caries Treatment: From Liquid Crystalline Systems to Nanocarriers. Pharmaceutics, 2023, 15, 762.	4.5	7
30	Nanotechnology in Orthodontics. Seminars in Orthodontics, 2023, 29, 79-84.	1.4	12
31	Docking of COVID-19 main protease and TD-DFT/DMOl3 simulated method, synthesis, and characterization with hybrid nanocomposite thin films and its applications. Surfaces and Interfaces, 2023, 37, 102722.	3.0	10
32	Tongueâ^'Brainâ€Transported ZnO Nanoparticles Induce Abnormal Taste Perception. Advanced Healthcare Materials, 2023, 12, .	7.6	1
33	Phyto-assisted synthesis of zinc oxide nanoparticles for developing antibiofilm surface coatings on central venous catheters. Frontiers in Chemistry, 0, 11, .	3.6	5
34	The In-Vitro Effect of Silver and Zinc Oxide Nanoparticles on Fluoride Release and Microhardness of a Resin-Modified Glass Ionomer Cement. Journal of Inorganic and Organometallic Polymers and Materials, 2023, 33, 1507-1516.	3.7	1
35	A DFT+U study of CO and H2 adsorption properties on Ga, Li, and Cu doped ZnO [[EQUATION]] surfaces. ChemNanoMat, 0, , .	2.8	0
36	Functional Surface Coatings on Orthodontic Appliances: Reviews of Friction Reduction, Antibacterial Properties, and Corrosion Resistance. International Journal of Molecular Sciences, 2023, 24, 6919.	4.1	8

#	Article	IF	Citations
37	Advances of plant and biomass extracted zirconium nanoparticles in dental implant application. Heliyon, 2023, 9, e15973.	3.2	14
38	Improved cotton fabrics properties using zinc oxide-based nanomaterials: A review. International Journal of Biological Macromolecules, 2023, 242, 124916.	7.5	6
39	Application of Magnesium Oxide Nanoparticles in Dentistry: A Literature Review. European Journal of General Dentistry, 2023, 12, 001-006.	0.4	2
40	A coating strategy on titanium implants with enhanced photodynamic therapy and CO-based gas therapy for bacterial killing and inflammation regulation. Chinese Chemical Letters, 2024, 35, 108648.	9.0	0
41	Synthesis and Antimicrobial Applications of ZnO Nanostructures: A Review. ACS Applied Nano Materials, 2023, 6, 10881-10902.	5.0	8
42	Porous Diatomaceous Earth/Nano-Zinc Oxide Composites: Preparation and Antimicrobial Applications. Journal of Composites Science, 2023, 7, 204.	3.0	2
43	Influence of the Type of Nanofillers on the Properties of Composites Used in Dentistry and 3D Printing. International Journal of Molecular Sciences, 2023, 24, 10549.	4.1	1
44	Rapid synthesis of fully substituted arylideneisoxazol-5(4H)-one using zinc oxide nanoparticles. Research on Chemical Intermediates, 2023, 49, 4603-4619.	2.7	3
45	Effect of calcination temperature on phase composition and optical properties of Al-ZnO nanocrystalline films. Physica Scripta, 2023, 98, 085008.	2.5	1
46	pH regulated lactose inspired fabrication of zinc oxide nanoparticles for insulin sensing by LSPR absorption. Heliyon, 2023, 9, e18153.	3.2	0
47	Study of the Antibacterial Capacity of a Biomaterial of Zeolites Saturated with Copper Ions (Cu2+) and Supported with Copper Oxide (CuO) Nanoparticles. Nanomaterials, 2023, 13, 2140.	4.1	0
48	Green Synthesis of Zinc Oxide Nanoparticles Using Cymbopogon citratus Extract and Its Antibacterial Activity. ACS Omega, 2023, 8, 32027-32042.	3.5	3
49	Facile verdant approach on zirconia-doped zinc oxide nanoparticles (Zr-ZnO NPs) using Citrus medica fruit: antibacterial and anti-inflammatory activity. Biomass Conversion and Biorefinery, 0, , .	4.6	0
50	Novel food materials: Fundamentals and applications in sustainable food systems for food processing and safety. Food Bioscience, 2023, 55, 103013.	4.4	2
51	Electrodeposited Zinc Coatings for Biomedical Application: Morphology, Corrosion and Biological Behaviour. Materials, 2023, 16, 5985.	2.9	0
52	Cobalt-doped zinc glycolate as a precursor for the production of Zn1â€‰â€™â€‰xCoxO oxide with nanostructured octahedral particles: synthesis, crystal structure, thermal, spectral, and optical properties. Journal of the Korean Ceramic Society, 0, , .	2.3	0
53	Emerging Applications of Nanotechnology in Healthcare and Medicine. Molecules, 2023, 28, 6624.	3.8	14
54	EFFECT OF TiO2 DECORATED CELLULOSIC MATERIALS ADDITION ON MECHANICAL AND BIOLOGICAL PROPERTIES OF DENTAL ADHESIVE COMPOSITES. Cellulose Chemistry and Technology, 2023, 57, 541-549.	1.2	0

#	Article	IF	Citations
55	Iron Nanoparticles Open Up New Directions for Promoting Healing in Chronic Wounds in the Context of Bacterial Infection. Pharmaceutics, 2023, 15, 2327.	4.5	0
56	Carica papaya peel extract-induced iron-doped zinc oxide nanostructures: synthesis, characterization, hemolysis, and antibacterial properties. Biomass Conversion and Biorefinery, 0, , .	4.6	0
57	Bibliometric analysis of dental adhesives: research status and frontier development. Frontiers in Materials, 0, 10, .	2.4	0
58	Electrophoretic Deposition of ZnO-Containing Bioactive Glass Coatings on AISI 316L Stainless Steel for Biomedical Applications. Coatings, 2023, 13, 1946.	2.6	1
59	Corrosion of Fixed Orthodontic Appliances: Causes, Concerns, and Mitigation Strategies. Metals, 2023, 13, 1955.	2.3	1
60	Biosynthesis of gallic acid fabricated tellurium nanoparticles (GA-Te NPs) for enhanced antibacterial, antioxidant, and cytotoxicity applications. Environmental Research, 2024, 240, 117461.	7.5	4
61	Efficacy of Chemically and Biologically Synthesized Zinc Oxide Nanoparticles Incorporated in Soft Denture Liner against Candida albicans: A Comparative In Vitro Study. World Journal of Dentistry, 2023, 14, 851-859.	0.3	0
62	Clinical Implications of Nanosciences in Dentistry and Periodontics: A Narrative Review. Cureus, 2023, , .	0.5	0
63	Effect of denture cleansers on color stability and surface properties of denture base material containing titanium dioxide nanoparticles. Journal of Prosthodontics, 0, , .	3.7	0
64	Emerging Applications of Nanotechnology in Dentistry. Dentistry Journal, 2023, 11, 266.	2.3	3
65	Salvia officinalisâ€“Hydroxyapatite Nanocomposites with Antibacterial Properties. Polymers, 2023, 15, 4484.	4.5	0
66	Subcutaneous tissue reaction to a novel nano zinc oxide eugenol dental cement. Bio-Medical Materials and Engineering, 2024, 35, 139-151.	0.6	0
67	The Application of Nanotechnology in Orthodontics: Current Trends and Future Perspectives. Dentistry, 0, , .	0.0	0
68	Synthesis and Characterization of the Zinc-Oxide: Tin-Oxide Nanoparticle Composite and Assessment of Its Antibacterial Activity: An In Vitro Study. Cureus, 2024, , .	0.5	0
69	Synthesis and characterization of mesoporous zinc oxide nanoparticles and evaluation of their biocompatibility in L929 fibroblasts. Clinical and Experimental Dental Research, 2024, 10, .	1.9	0
70	Systematic Review of Zincâ€™s Benefits and Biological Effects on Oral Health. Materials, 2024, 17, 800.	2.9	0
71	Visible light-activated curcumin-doped zinc oxide nanoparticles integrated into orthodontic adhesive on Micro-tensile bond strength, degree of conversion, and antibacterial effectiveness against Staphylococcus Aureus. An investigation using scanning electron microscopy and energy-dispersive X-ray spectroscopy. Journal of Photochemistry and Photobiology B: Biology, 2024, 253, 112888.	3.8	0
72	Metal oxide nanocrystalsâ€”applications. , 2024, , 853-879.		0

#	Article	IF	Citations
73	The influence of zinc oxide-silicate composites on the aging resistance of asphalt. AEJ - Alexandria Engineering Journal, 2024, 93, 288-294.	6.4	0
74	Green Nanomaterials Zinc Oxide and Chitosan for Antimicrobial Activity Against Oral Pathogens. , 2024, , 74-129.		0
75	Green-route synthesis of ZnO nanoparticles via Solanum surattense leaf extract: Characterization, biomedical applications and their ecotoxicity assessment of zebrafish embryo model. South African Journal of Botany, 2024, 167, 643-662.	2.5	0
76	APPLICATION OF ANTIMICROBIAL NANOPARTICLES OF METALS AND THEIR OXIDES IN IMPROVING DENTAL PROSTHESES. , 2024, 24, 263-269.	0.2	0