

Physicochemical study of CaCO₃ from egg shells

Food Science and Technology

27, 658-662

DOI: 10.1590/s0101-20612007000300035

Citation Report

#	ARTICLE	IF	CITATIONS
1	An Innovative Synthesis of Calcium Zeolite Type A Catalysts from Eggshells via the Sol-Gel Process. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011, 21, 50-60.	1.9	11
2	Characterization of Precipitated Calcium Carbonate from Eggshell Powder. <i>Advanced Materials Research</i> , 0, 410, 228-231.	0.3	3
3	Preparation and properties of calcium oxide from eggshells via calcination. <i>Materials Science-Poland</i> , 2012, 30, 313-322.	0.4	122
4	Removal of humic acid from peat water using untreated powdered eggshell as a low cost adsorbent. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 1357-1366.	1.8	43
5	Ultrasonic-assisted preparation of nano eggshell powder: A novel catalyst in green and high efficient synthesis of 2-aminochromenes. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1436-1441.	3.8	93
6	Application and characterization of eggshell as a new biodegradable and heterogeneous catalyst in green synthesis of 7,8-dihydro-4H-chromen-5(6H)-ones. <i>Catalysis Communications</i> , 2013, 33, 70-75.	1.6	50
7	A literature review on adding value to solid residues: egg shells. <i>Journal of Cleaner Production</i> , 2013, 46, 42-47.	4.6	176
8	Drying by spray drying in the food industry: Micro-encapsulation, process parameters and main carriers used. <i>African Journal of Food Science</i> , 2015, 9, 462-470.	0.4	67
9	Application of chicken eggshell waste as a starting material for synthesizing calcium niobate (Ca ₄ Nb ₂ O ₉) powder. <i>Ceramics International</i> , 2015, 41, S69-S75.	2.3	14
10	Synthesis and characterization of ES/Cu(OH) ₂ nanocomposite: A novel and high effective catalyst in the green synthesis of pyrano[4,3-b]pyrans. <i>Materials Science and Engineering C</i> , 2015, 46, 264-269.	3.8	29
11	The environmental sustainability of calcined calcium phosphates production from the milling of eggshell wastes and phosphoric acid. <i>Journal of Cleaner Production</i> , 2016, 137, 1432-1438.	4.6	40
12	Synthesis of metallic nanoparticles from <i>Beta vulgaris</i> using a single-pot green chemistry approach and their environmental engineering application. <i>Nanotechnology for Environmental Engineering</i> , 2016, 1, 1.	2.0	5
13	Innovation of Embedding Eggshell to Enhance Physical-Mechanical-Thermal Properties in Fired Clay Bricks via Extrusion Process. <i>MATEC Web of Conferences</i> , 2016, 78, 01003.	0.1	7
14	Calcium Carbonate. <i>Profiles of Drug Substances, Excipients and Related Methodology</i> , 2016, 41, 31-132.	3.5	78
15	Evaluation of metal mobility from copper mine tailings in northern Chile. <i>Environmental Science and Pollution Research</i> , 2016, 23, 11901-11915.	2.7	28
16	Evaluation of the phytoremediation potential of native plants growing on a copper mine tailing in northern Chile. <i>Journal of Geochemical Exploration</i> , 2017, 182, 210-217.	1.5	87
17	Effect of carbon nanotubes on calcium carbonate/calcium silicate phase and morphology. <i>Main Group Chemistry</i> , 2017, 16, 57-65.	0.4	3
19	CaO-based CO ₂ sorbents: A review on screening, enhancement, cyclic stability, regeneration and kinetics modelling. <i>Journal of CO₂ Utilization</i> , 2018, 23, 179-199.	3.3	164

#	ARTICLE	IF	CITATIONS
20	Turning calcined waste egg shells and wastewater to Brushite: Phosphorus adsorption from aqua media and anaerobic sludge leach water. <i>Journal of Cleaner Production</i> , 2018, 178, 419-428.	4.6	76
21	A comparison of pretreatments on hydroxyapatite formation on Ti by biomimetic method. <i>Journal of the Australian Ceramic Society</i> , 2018, 54, 533-543.	1.1	6
22	Preparation of anhydrite from eggshell via pyrolysis. <i>Green Processing and Synthesis</i> , 2018, 7, 139-146.	1.3	12
23	Utilizing Low-Cost Eggshell Particles to Enhance the Mechanical Response of Mg ²⁺ -Zn Magnesium Alloy Matrix. <i>Advanced Engineering Materials</i> , 2018, 20, 1700919.	1.6	32
24	Processing of Porous Stainless Steel by Compaction Method Using Egg Shell as Space Holder. <i>Key Engineering Materials</i> , 0, 791, 123-128.	0.4	0
25	Synthesis, Characterization and Efficiency of HAp-TiO ₂ -ZnO Composite as a Promising Photocatalytic Material. <i>Transactions of the Indian Ceramic Society</i> , 2018, 77, 161-168.	0.4	5
26	Nanoporous of waste avian eggshell to reduce heavy metal and acidity in water. <i>Sustainable Chemistry and Pharmacy</i> , 2018, 10, 163-167.	1.6	20
27	Biodegradation of Poly (3-hydroxybutyrate) /Eggshellsystems. <i>Materials Research</i> , 2018, 21, .	0.6	5
28	Application of eggshell wastes as valuable and utilizable products: A review. <i>Research in Agricultural Engineering</i> , 2018, 64, 104-114.	0.5	117
29	The effects of egg shell and shrimp shell on the properties of baked starch foam. <i>Powder Technology</i> , 2018, 335, 354-359.	2.1	37
30	The Potential of Blended Cement Mortar Brick Using Sewage Sludge and Eggshell Waste. , 2018, , 317-326.		0
31	Factors Affecting the Particle Size of Bio-Calcium Carbonate Synthesized from Industrial Eggshell Waste. <i>Materials Transactions</i> , 2018, 59, 1220-1224.	0.4	5
32	Sustainable Process for Separating Chitin and Simultaneous Synthesis of Carbon Nanodots from Shellfish Waste Using 2% Aqueous Urea Solution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11313-11325.	3.2	13
33	Utilization of eggshell as a low-cost precursor for synthesizing calcium niobate ceramic. <i>Green Materials</i> , 2018, 6, 108-116.	1.1	4
34	Eggshell calcium: A cheap alternative to expensive supplements. <i>Trends in Food Science and Technology</i> , 2019, 91, 219-230.	7.8	95
35	Desenvolvimento de espumas v̄treas a partir de garrafa e casca de ovo. <i>Revista Materia</i> , 2019, 24, .	0.1	2
36	Evaluation of calcium carbonate in eggshells using thermal analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2751-2758.	2.0	11
37	Calcined chicken eggshell electrode for battery and supercapacitor applications. <i>RSC Advances</i> , 2019, 9, 26981-26995.	1.7	69

#	ARTICLE	IF	CITATIONS
38	Treatment of biowaste to pharmaceutical excipient. <i>Materials Today: Proceedings</i> , 2019, 15, 316-322.	0.9	2
39	From Blue Bioeconomy toward Circular Economy through High-Sensitivity Analytical Research on Waste Blue Crab Shells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16820-16827.	3.2	20
40	Eggshell particle-reinforced hydrogels for bone tissue engineering: an orthogonal approach. <i>Biomaterials Science</i> , 2019, 7, 2675-2685.	2.6	55
41	Traditional materials from new sources – conflicts in analytical methods for calcium carbonate. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2019, 36, 366-373.	1.1	2
42	Bio-compatible organic humidity sensor based on natural inner egg shell membrane with multilayer crosslinked fiber structure. <i>Scientific Reports</i> , 2019, 9, 5824.	1.6	30
43	Eggshell as a Carbon Dioxide Sorbent: Kinetics of the Calcination and Carbonation Reactions. <i>Energy & Fuels</i> , 2019, 33, 4474-4486.	2.5	14
44	Alternative green preparation of mesoporous calcium hydroxyapatite by chemical reaction of eggshell and phosphoric acid. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1989-1997.	1.1	10
45	Calcium Titanate from Food Waste: Combustion Synthesis, Sintering, Characterization, and Properties. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-9.	1.0	17
46	Characterization and in vitro evaluation of an acid resistant nanosized dental eggshell-titanium dioxide material. <i>Advanced Powder Technology</i> , 2019, 30, 766-773.	2.0	10
47	Synthesis, characterization and low energy photon attenuation studies of bone tissue substitutes. <i>Journal of Polymer Engineering</i> , 2020, 40, 99-108.	0.6	0
48	Optimized Electrolytic Carbon and Electrolyte Systems for Electrochemical Capacitors. <i>ChemElectroChem</i> , 2020, 7, 266-282.	1.7	11
49	Channelling eggshell waste to valuable and utilizable products: A comprehensive review. <i>Trends in Food Science and Technology</i> , 2020, 106, 78-90.	7.8	117
50	Synthesis of hydroxyapatite based duck egg shells using precipitation method. <i>Journal of Physics: Conference Series</i> , 2020, 1563, 012020.	0.3	6
51	Evaluation of eggshell wastes in office paper production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1115-1124.	2.9	7
52	Enhancing the properties of eggshell powder by cold plasma for improved calcium fortification in black coffee. <i>Journal of Food Process Engineering</i> , 2020, 43, e13450.	1.5	3
53	Catalytic chelation technique for the removal of heavy metal from <i>Clarius batrachus</i> (<i>C. batrachus</i>). <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104165.	3.3	3
54	Effects of nano-palm oil fuel ash and nano-eggshell powder on concrete. <i>Construction and Building Materials</i> , 2020, 261, 119790.	3.2	94
55	Thermogravimetric analysis on the co-combustion of biomass pellets with lignite and bituminous coal. <i>Energy</i> , 2020, 197, 117147.	4.5	74

#	ARTICLE	IF	CITATIONS
56	Effects of phytase supplementation on eggshell and bone quality, and phosphorus and calcium digestibility in laying hens from 25 to 37 th wk of age. <i>Poultry Science</i> , 2020, 99, 2595-2607.	1.5	17
57	Glycerolysis of Palm Fatty Acid Distillate (PFAD) as Biodiesel Feedstock Using Heterogeneous Catalyst. <i>Waste and Biomass Valorization</i> , 2021, 12, 735-744.	1.8	8
58	Synthesis, characterization and formation mechanisms of nanocrystalline akermanite powder. <i>Journal of Materials Research and Technology</i> , 2021, 11, 792-800.	2.6	9
59	Effect of Combined Supplementary Cementitious Materials on the Fresh and Mechanical Properties of Eco-Efficient Self-Compacting Concrete. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 10953-10973.	1.7	17
60	A study on immobilization of ¹⁴ C ¹⁸ O ₂ using inorganic materials. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 328, 627-635.	0.7	3
61	Investigation of using egg shell powder for bleaching of soybean oil. <i>LWT - Food Science and Technology</i> , 2021, 140, 110859.	2.5	11
62	Calcite-based material for desulphation of the 29% in P ₂ O ₅ phosphoric acid: characterization, modelling and optimization. <i>Nanotechnology for Environmental Engineering</i> , 2021, 6, 1.	2.0	2
63	Effect of Dietary Mineral Content and Phytase Dose on Nutrient Utilization, Performance, Egg Traits and Bone Mineralization in Laying Hens from 22 to 31 Weeks of Age. <i>Animals</i> , 2021, 11, 1495.	1.0	4
64	Synthesis and characterization of Egg shell (ES) and Egg shell with membrane (ESM) modified by ionic liquids. <i>Chemical Data Collections</i> , 2021, 33, 100717.	1.1	16
65	Formulation and Development of an Experimental Polishing Paste with Antimicrobial Activity Based on <i>Coturnix coturnix</i> (Codorniz) Eggshell. <i>International Journal of Dentistry</i> , 2021, 2021, 1-5.	0.5	1
66	Review on the extraction of calcium supplements from eggshells to combat waste generation and chronic calcium deficiency. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46985-46998.	2.7	6
67	Eggshell derived CaO-Portland cement antibacterial composites. <i>Composites Part C: Open Access</i> , 2021, 5, 100123.	1.5	16
68	Utilization of eggshell waste in calcium-fortified foods and other industrial applications: A review. <i>Trends in Food Science and Technology</i> , 2021, 115, 422-432.	7.8	46
69	Biobutanol production from pruned vine shoots. <i>Renewable Energy</i> , 2021, 177, 124-133.	4.3	11
70	Inclusion of industrial egg residue in the feed of laying hens to replace limestone: digestibility, productive performance and egg quality. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e20190769.	0.3	1
71	The fast and of low-cost-adsorbent to the removal of cationic and anionic dye using chicken eggshell with its membrane. <i>Mediterranean Journal of Chemistry</i> , 2020, 10, 294-301.	0.3	10
72	Eggshell, a Promising Waste in Organic Reactions. <i>Letters in Organic Chemistry</i> , 2019, 16, 851-859.	0.2	6
73	Utilization of Palm Oil Fuel Ash and Eggshell Powder as Partial Cement Replacement - A Review. <i>Civil Engineering Journal (Iran)</i> , 2018, 4, 1977.	1.2	28

#	ARTICLE	IF	CITATIONS
74	EFFECT OF EGGHELL FLOUR ON BLOOD CALCIUM LEVELS IN PREGNANT MICE. <i>Belitung Nursing Journal</i> , 2017, 3, 791-795.	0.4	2
75	Calcium carbonate nano- and microparticles: synthesis methods and biological applications. <i>3 Biotech</i> , 2021, 11, 457.	1.1	26
76	Effect of Sodium Lignosulfonate Treatment on the Dispersion of CaCO ₃ in CaCO ₃ /Polypropylene Composite. <i>Porrime</i> , 2015, 39, 382-387.	0.0	0
77	Nanostructured Calcium Phosphate-Based Bioceramics from Waste Materials. , 2019, , 2371-2388.		0
78	Eggshell as a calcium source replacing limestone meal in mink (<i>>Neovison vison</i>) diets. <i>Journal of Animal and Feed Sciences</i> , 2020, 29, 338-344.	0.4	2
79	Embedding Bio-Filler Materials to Enhance Physical-Mechanical-Thermal Properties of Concrete. <i>Materials Science Forum</i> , 0, 1015, 3-8.	0.3	0
80	CaCO ₃ -derived from eggshell waste for improving the corrosion resistance of zinc composite coating on mild steel for biodiesel storage tank. <i>Chemical Data Collections</i> , 2022, 37, 100794.	1.1	5
81	Eggshell powder improves the gel properties and microstructure of pea starch-Mesona chinensis Benth polysaccharide gels. <i>Food Hydrocolloids</i> , 2022, 125, 107375.	5.6	5
82	Usos potenciales de la cáscara de huevo de gallina (<i>Gallus gallus domesticus</i>): una revisión sistemática. <i>Revista Colombiana De Ciencia Animal Recia</i> , 2020, 12, e776.	0.2	0
83	Calcium carbonate nanoparticles of quail's egg shells: Synthesis and characterizations. <i>Journal of the Mechanical Behavior of Materials</i> , 2022, 31, 1-7.	0.7	8
84	CaCO ₃ derived from eggshell waste for improving the hardness values and wear behavior of composite coating on mild steel via co-deposition. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 5483-5496.	1.5	10
85	Manufacturing nano novel composites using sugarcane and eggshell as an alternative for producing nano green mortar. <i>Environmental Science and Pollution Research</i> , 2022, 29, 34984-35000.	2.7	14
86	Waste eggshell-derived CaO-Ag composite and Ca(II) Curcumin Complex antimicrobial materials. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 101, 370-379.	1.1	3
87	Development of ostrich eggshell and nano-levan-based edible biopolymer composite films: characterization and bioactivity. <i>Polymer Bulletin</i> , 2022, 79, 11201-11215.	1.7	9
88	Characterizations of Calcium Oxide from Calcined Eggshell Waste. <i>Key Engineering Materials</i> , 0, 908, 130-134.	0.4	0
89	Effects of eggshell powder supplementation on nutritional and sensory attributes of biscuits. <i>Czech Journal of Food Sciences</i> , 2022, 40, 26-32.	0.6	7
90	Natural rubber composite film embedded with bio-ionic filler from eggshell as soft compliant electrode. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 0, , 1.	0.4	0
91	Innovative Application of Chicken Eggshell Calcium to Improve the Functional Value of Gingerbread. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4195.	1.2	10

#	ARTICLE	IF	CITATIONS
92	Eggshell Microparticle Reinforced Scaffolds for Regeneration of Critical Sized Cranial Defects. ACS Applied Materials & Interfaces, 2021, 13, 60921-60932.	4.0	10
93	Calcined eggshells in anaerobic digestion: Buffering acidification in AD and evaluating end products from phosphate adsorption as soil conditioners. Journal of Environmental Chemical Engineering, 2022, 10, 107957.	3.3	7
94	Conversion of Organic Waste to Novel Adsorbent for Fluoride Removal: Efficacy and Mechanism of Fluoride Adsorption by Calcined Venerupis philippinarum Shells. Water, Air, and Soil Pollution, 2022, 233, .	1.1	10
95	Bioprocess development as a sustainable platform for eco-friendly alkaline phosphatase production: an approach towards crab shells waste management. Microbial Cell Factories, 2022, 21, .	1.9	3
96	Processing and in vitro corrosion analysis of sustainable and economical eggshell reinforced Mg and Mg-Zr matrix composite for biomedical applications. Materials Today Communications, 2022, 32, 103944.	0.9	8
97	Characterization of egg shell powder-doped ceramic-metal composites. Open Chemistry, 2022, 20, 716-724.	1.0	3
98	Synthesis of Calcium Oxide Nanoparticles from Waste Eggshells. , 2022, , .		2
99	Development and Evaluation of Kukkutandatvak bhasma tablet by using Dry Granulation Techniques. Research Journal of Pharmacy and Technology, 2022, , 3764-3768.	0.2	0
100	A study on solidification of CaCO ₃ powder containing C-14 by using a low melting glass material. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 3735-3744.	0.7	2
101	Effect of Different Levels of Egg Shell in Diet on the Production Performance, Egg Quality and Heavy Metal Contents in Laying Hens. International Journal of Poultry Science, 2022, 21, 159-165.	0.6	0
102	Biogenic calcium carbonate derived from waste shells for advanced material applications: A review. Frontiers in Materials, 0, 9, .	1.2	6
103	Punching shear behavior of reinforced concrete flat slab column connection containing recycled eggshell powder. Structures, 2022, 46, 1016-1028.	1.7	2
104	Effect of NaOH concentration as activator on calcined eggshell and its application for yeast microbial fuel cell. Bioresource Technology Reports, 2023, 21, 101347.	1.5	3
105	Utilization of chicken eggshell and chitosan as coagulants for microplastic removal from aquatic system. , 2023, 2, 21-30.		1
106	Waste Chicken Eggshell-Derived CaO Based Magnetic Solid Base Catalysts for the One-Pot Synthesis of Tetrahydro-4H-chromenes and Benzopyranopyrimidines. Catalysis Letters, 2024, 154, 532-552.	1.4	0
107	Decompositional and chemical reaction kinetics study of eggshell powder waste for value-added materials. Journal of Thermal Analysis and Calorimetry, 2023, 148, 6451-6463.	2.0	2
108	Chitosan-based mixed matrix membranes: effect of different fillers on membrane properties and performance in hydrophilic pervaporation. Chemical Engineering Communications, 2023, 210, 2204-2228.	1.5	0
109	Rheological Characteristics of Starch-Based Biodegradable Blends. Polymers, 2023, 15, 1953.	2.0	2

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------