

C Y Tan

List of Publications by Year in descending order

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108
papers

2,103
citations

236612

25
h-index

253896

43
g-index

109
all docs

109
docs citations

109
times ranked

1895
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and sintering of hydroxyapatite derived from eggshells as a calcium precursor. <i>Ceramics International</i> , 2014, 40, 16349-16359.	2.3	145
2	Densification behaviour of nanocrystalline hydroxyapatite bioceramics. <i>Journal of Materials Processing Technology</i> , 2008, 206, 221-230.	3.1	107
3	Characterization of biogenic hydroxyapatite derived from animal bones for biomedical applications. <i>Ceramics International</i> , 2018, 44, 10525-10530.	2.3	95
4	Sintering behaviour of natural porous hydroxyapatite derived from bovine bone. <i>Ceramics International</i> , 2015, 41, 3024-3029.	2.3	87
5	Consolidation of nanocrystalline hydroxyapatite powder. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 124-130.	2.8	85
6	Sintering properties of hydroxyapatite powders prepared using different methods. <i>Ceramics International</i> , 2013, 39, 111-119.	2.3	85
7	Direct conversion of eggshell to hydroxyapatite ceramic by a sintering method. <i>Ceramics International</i> , 2016, 42, 7824-7829.	2.3	82
8	Comparison between microwave and conventional sintering on the properties and microstructural evolution of tetragonal zirconia. <i>Ceramics International</i> , 2018, 44, 8922-8927.	2.3	79
9	Rapid densification of nanocrystalline hydroxyapatite for biomedical applications. <i>Ceramics International</i> , 2007, 33, 1363-1367.	2.3	78
10	Enhanced ionic conductivity of scandia-ceria-stabilized-zirconia (10Sc1CeSZ) electrolyte synthesized by the microwave-assisted glycine nitrate process. <i>Ceramics International</i> , 2017, 43, 8119-8125.	2.3	73
11	Characteristics and properties of hydroxyapatite derived by sol-gel and wet chemical precipitation methods. <i>Ceramics International</i> , 2015, 41, 10434-10441.	2.3	66
12	A review on the hydrothermal ageing behaviour of Y-TZP ceramics. <i>Ceramics International</i> , 2018, 44, 20620-20634.	2.3	63
13	The effect of manganese oxide on the sinterability of hydroxyapatite. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 257-263.	2.8	60
14	Effect of manganese oxide on the sintered properties and low temperature degradation of Y-TZP ceramics. <i>Ceramics International</i> , 2008, 34, 1603-1608.	2.3	60
15	Sintering behavior of hydroxyapatite prepared from different routes. <i>Materials & Design</i> , 2012, 34, 148-154.	5.1	60
16	Sintering and mechanical properties of MgO-doped nanocrystalline hydroxyapatite. <i>Ceramics International</i> , 2013, 39, 8979-8983.	2.3	60
17	The Effects of Calcium to Phosphorus Ratio on the Densification and Mechanical Properties of Hydroxyapatite Ceramic. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 223-227.	1.1	60
18	Effect of two-step sintering on the hydrothermal ageing resistance of tetragonal zirconia polycrystals. <i>Ceramics International</i> , 2017, 43, 7594-7599.	2.3	59

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19	Effects of bismuth oxide on the sinterability of hydroxyapatite. <i>Ceramics International</i> , 2011, 37, 599-606.	2.3	58
20	Effect of multi-ions doping on the properties of carbonated hydroxyapatite bioceramic. <i>Ceramics International</i> , 2019, 45, 3473-3477.	2.3	57
21	The influence of Ca/P ratio on the properties of hydroxyapatite bioceramics. <i>Proceedings of SPIE</i> , 2007, 6423, 855.	0.8	39
22	Sintering behaviour and properties of manganese-doped alumina. <i>Ceramics International</i> , 2019, 45, 7049-7054.	2.3	39
23	Conductivity, dielectric studies and structural properties of P(VA-co-PE) and its application in dye sensitized solar cell. <i>Organic Electronics</i> , 2018, 56, 116-124.	1.4	33
24	Influence of Annealing on Properties of Spray Deposited ZnO Thin Films. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	1.5	32
25	Sintering behaviour of carbonated hydroxyapatite prepared at different carbonate and phosphate ratios. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2020, 59, 73-80.	0.9	26
26	Microwave sintering of ceria-doped scandia stabilized zirconia as electrolyte for solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14184-14190.	3.8	22
27	Optimization of poly(vinyl alcohol-co-ethylene)-based gel polymer electrolyte containing nickel phosphate nanoparticles for dye-sensitized solar cell application. <i>Solar Energy</i> , 2019, 178, 231-240.	2.9	20
28	Effect of Synthesis Methods on Methanol Oxidation Reaction on Reduced Graphene Oxide Supported Palladium Electrocatalysts. <i>Procedia Engineering</i> , 2017, 184, 587-594.	1.2	19
29	Chemical bath deposition of h-MoO ₃ on optical fibre as room-temperature ammonia gas sensor. <i>Ceramics International</i> , 2021, 47, 32828-32836.	2.3	18
30	Sintering and Properties of Dense Manganese-Doped Calcium Phosphate Bioceramics Prepared Using Sol-Gel Derived Nanopowders. <i>Materials and Manufacturing Processes</i> , 2011, 26, 908-914.	2.7	17
31	Influence of pH on the physical and electromagnetic properties of Mg ²⁺ /Mn ferrite synthesized by a solution combustion method. <i>Materials Characterization</i> , 2015, 110, 109-115.	1.9	17
32	Effects of sintering on the mechanical and ionic properties of ceria-doped scandia stabilized zirconia ceramic. <i>Ceramics International</i> , 2016, 42, 14469-14474.	2.3	17
33	Effect of microwave sintering on the properties of copper oxide doped Y-TZP ceramics. <i>Ceramics International</i> , 2018, 44, 19639-19645.	2.3	16
34	Sintering behaviour and properties of magnesium orthosilicate-hydroxyapatite ceramic. <i>Ceramics International</i> , 2016, 42, 15756-15761.	2.3	15
35	Influence of sodium on the properties of sol-gel derived hydroxyapatite powder and porous scaffolds. <i>Ceramics International</i> , 2017, 43, 12263-12269.	2.3	15
36	Novel palladium-guanine-reduced graphene oxide nanocomposite as efficient electrocatalyst for methanol oxidation reaction. <i>Materials Research Bulletin</i> , 2019, 112, 213-220.	2.7	14

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37	Effect of Sintering Profiles on the Properties and Ageing Resistance of Y-TZP Ceramic. International Journal of Automotive and Mechanical Engineering, 2011, 4, 405-413.	0.5	12
38	Mechanochemical Synthesis of Magnesium Doped Hydroxyapatite: Powder Characterization. Applied Mechanics and Materials, 0, 372, 62-65.	0.2	11
39	THE EFFECT OF COLD ISOSTATIC PRESSING ON THE SINTERABILITY OF SYNTHESIZED HA. Biomedical Engineering - Applications, Basis and Communications, 2004, 16, 199-204.	0.3	10
40	Effect of Copper Oxide and Manganese Oxide on Properties and Low Temperature Degradation of Sintered Y-TZP Ceramic. Journal of Materials Engineering and Performance, 2014, 23, 4328-4335.	1.2	10
41	Sinterability of Forsterite Prepared via Solid-State Reaction. International Journal of Applied Ceramic Technology, 2015, 12, 437-442.	1.1	10
42	Sintering of Hydroxyapatite/Yttria Stabilized Zirconia Nanocomposites under Nitrogen Gas for Dental Materials. Advances in Materials Science and Engineering, 2014, 2014, 1-6.	1.0	9
43	Effect of Grain Size on Vickers Microhardness and Fracture Toughness in Calcium Phosphate Bioceramics. Applied Mechanics and Materials, 0, 83, 237-243.	0.2	8
44	Electrochemical and microstructural characteristics of nanoperovskite oxides Ba _{0.2} Sr _{0.8} Co _{0.8} Fe _{0.2} O _{3-δ} (BSCF) for solid oxide fuel cells. Ceramics International, 2013, 39, 439-444.	2.3	8
45	Investigations of solution-processed charge generation unit with low concentration of small molecule doped in p-type/HAT-CN 6 for tandem OLED. Journal of Luminescence, 2016, 169, 61-64.	1.5	8
46	Sintering Effects on the Densification of Nanocrystalline Hydroxyapatite. International Journal of Automotive and Mechanical Engineering, 2011, 3, 249-255.	0.5	8
47	Densification of copper oxide doped alumina toughened zirconia by conventional sintering. Ceramics International, 2022, 48, 6287-6293.	2.3	8
48	Characterization of Forsterite Bioceramics. Advanced Materials Research, 0, 576, 195-198.	0.3	7
49	Effect of manganese oxide on the sinterability of 8 mol% yttria-stabilized zirconia. Materials Characterization, 2016, 120, 331-336.	1.9	7
50	In-situ analysis energy level alignment at solution processed HAT(CN) 6 /PVK (PVK:TAPC) interface via XPS and UPS. Current Applied Physics, 2017, 17, 1094-1099.	1.1	7
51	Influence of Magnesium Doping in Hydroxyapatite Ceramics. IFMBE Proceedings, 2008, , 326-329.	0.2	7
52	Effect of Copper Oxide on the Sintering of Alumina Ceramics. Advanced Materials Research, 0, 47-50, 801-804.	0.3	6
53	Sintering Behavior of Nanocrystalline Hydroxyapatite Produced by Wet Chemical Method. Current Nanoscience, 2011, 7, 845-849.	0.7	6
54	Synthesis of High Fracture Toughness of Hydroxyapatite Bioceramics. Advanced Materials Research, 0, 264-265, 1849-1855.	0.3	5

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55	Sintering of Hydroxyapatite Ceramic Produced by Wet Chemical Method. <i>Advanced Materials Research</i> , 0, 264-265, 1856-1861.	0.3	5
56	Effects of anodisation parameters on thin film properties: A review. <i>Materials Science and Technology</i> , 2017, 33, 699-711.	0.8	5
57	Investigation of the effect of anodization time and annealing temperature on the physical properties of ZrO ₂ thin film on a Si substrate. <i>Materials Research Express</i> , 2017, 4, 086414.	0.8	5
58	Physical and electrical characteristics of Ho ₂ O ₃ thin film based on 4H-SiC wide bandgap semiconductor. <i>Thin Solid Films</i> , 2022, 741, 138997.	0.8	5
59	Study on the effects of milling time and sintering temperature on the sinterability of forsterite (Mg ₂ SiO ₄). <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 1032-1037.	0.5	4
60	Sintering and properties of magnesium orthosilicate ceramic. <i>Ceramics International</i> , 2015, 41, 13614-13623.	2.3	4
61	Phase Analysis and Densification of Steatite-based Ceramics. <i>International Journal of Automotive and Mechanical Engineering</i> , 2010, 1, 38-45.	0.5	4
62	Effect of Nano Silica on the Sinterability of Hydroxyapatite Dense Bodies. <i>Advanced Materials Research</i> , 2011, 264-265, 1832-1838.	0.3	3
63	Oxygen Vacancy Comparisons for 3Y - TZP Sintered in Air and Argon Gas Atmosphere. <i>Applied Mechanics and Materials</i> , 2013, 372, 173-176.	0.2	3
64	Rapid Nucleation of Reduced Graphene Oxide-Supported Palladium Electrocatalysts for Methanol Oxidation Reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7236-7243.	0.9	3
65	Synthesis and properties of bio-waste-based hydroxyapatite via hydrothermal process. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 706-712.	0.5	3
66	Dependence of the Fracture Toughness on the Sintering Time of Dense Hydroxyapatite Bioceramics. <i>Materials Science Forum</i> , 2011, 694, 391-395.	0.3	2
67	Characteristics of Sintered Bovine Hydroxyapatite. <i>Applied Mechanics and Materials</i> , 0, 372, 177-180.	0.2	2
68	Effect of sintering holding time on low-temperature degradation of yttria stabilised zirconia ceramics. <i>Materials Research Innovations</i> , 2014, 18, S6-408-S6-411.	1.0	2
69	Characterization study for polymer core solder balls under AC and TC reliability test. , 2014, , .		2
70	Purification and conversion of Malaysian iron ores into industrial grade iron oxide colour pigment. <i>Materials Research Innovations</i> , 2014, 18, S6-159-S6-163.	1.0	2
71	Influence of Magnesium Doping in Hydroxyapatite Bioceramics Sintered by Short Holding Time. <i>IFMBE Proceedings</i> , 2011, , 80-83.	0.2	2
72	Sintering behaviour of forsterite bioceramics. , 2011, , .		1

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73	Effects of Powder Synthesis Method on the Sinterability of Hydroxyapatite. Advanced Materials Research, 2011, 264-265, 1538-1544.	0.3	1
74	Preparation and Evaluation of $Ba_xSr_{(x-1)}Co_yFe_{(y-1)}O_{3\lambda}$ Nanomaterial for SOFC Cathode by Oxalate Co-Precipitation (x=0.2, y=0.8). Applied Mechanics and Materials, 2011, 52-54, 1177-1181.	0.2	1
75	Effects of Bismuth Oxide on the Properties of Calcium Phosphate Bioceramics. Advanced Materials Research, 0, 264-265, 1839-1848.	0.3	1
76	Flux residue cleaning process optimization effect on Flip Chip Ball Grid Array reliability. , 2012, , .		1
77	Effect of Ultrasonication on Synthesis of Forsterite Ceramics. Advanced Materials Research, 0, 576, 252-255.	0.3	1
78	Sintering of HA/Zirconia Composite for Biomedical and Dental Applications: A Review. Advanced Materials Research, 0, 686, 290-295.	0.3	1
79	Sintered Properties of Y-TZP/ZrB ₂ Ceramics. Applied Mechanics and Materials, 2013, 372, 169-172.	0.2	1
80	Densification Behavior of Nano Y-TZP Ceramics. Applied Mechanics and Materials, 2013, 372, 165-168.	0.2	1
81	The effect of sintering ramp rate on the sinterability of forsterite ceramics. Materials Research Innovations, 2014, 18, S6-61-S6-64.	1.0	1
82	Development of Sn-Cu-Sb alloys for making lead- and bismuth-free pewter. International Journal of Materials Research, 2014, 105, 183-187.	0.1	1
83	Sintering properties of zirconia-based ceramic composite. Materials Research Innovations, 2014, 18, S6-105-S6-108.	1.0	1
84	Thermal treatment and properties of bovine hydroxyapatite. Materials Research Innovations, 2014, 18, S6-117-S6-120.	1.0	1
85	Low-temperature degradation and defect relationship in yttria-tetragonal zirconia polycrystal ceramic. Materials Research Innovations, 2014, 18, S6-131-S6-134.	1.0	1
86	The effects of zinc oxide on the sinterability of hydroxyapatite. , 2016, , .		1
87	Sintering Behaviour and Properties of Flyash-Doped Zirconia. Materials Science Forum, 2017, 894, 85-88.	0.3	1
88	Effect of ZnO addition on the purity and densification of forsterite ceramic. IOP Conference Series: Materials Science and Engineering, 2017, 206, 012051.	0.3	1
89	Thermal Stability Behaviour of Scandia Stabilised Zirconia. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012078.	0.2	1
90	Nucleation and growth controlled reduced graphene oxide-supported palladium electrocatalysts for methanol oxidation reaction. Nanomaterials and Nanotechnology, 2019, 9, 184798041982717.	1.2	1

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91	Sintering Behavior of Hydroxyapatite Ceramics Prepared by Different Routes. Ceramic Engineering and Science Proceedings, 0, , 127-137.	0.1	1
92	Characterization and Sintering Properties of Hydroxyapatite Bioceramics Synthesized From Clamshell Biowaste. IIUM Engineering Journal, 2022, 23, 228-236.	0.5	1
93	Sinterability Of Hydroxyapatite Compacts Prepared By Cold Isostatic Pressing For Clinical Applications. IFMBE Proceedings, 2007, , 137-140.	0.2	0
94	The Effect of Ball Milling Hours in the Synthesizing Nano-Crystalline Forsterite via Solid-State Reaction. IFMBE Proceedings, 2011, , 102-104.	0.2	0
95	Manufacturing of High Toughness Hydroxyapatite Produced by Wet Chemical Method. Applied Mechanics and Materials, 0, 110-116, 1289-1295.	0.2	0
96	Effects of Ramp Rates with Short Holding Time on the Sinterability of Hydroxyapatite. Advanced Materials Research, 0, 545, 229-234.	0.3	0
97	Characterization of Forsterite Synthesized by Solid-State Reaction with Ball Milling Method. Applied Mechanics and Materials, 0, 372, 416-419.	0.2	0
98	Preparation of HA-Zirconia Nanocomposite for Dental Applications. Advanced Materials Research, 0, 662, 35-39.	0.3	0
99	A Review: Effect of Sintering Method on the Decomposition of Hydroxyapatite and Density of Hydroxyapatite Zirconia Composites. Applied Mechanics and Materials, 0, 465-466, 843-846.	0.2	0
100	Ionic contaminations level and cleaning flip chip BGA package via a new cleaning solvent technology. Microelectronics International, 2013, 30, 99-103.	0.4	0
101	The effects of sintering behavior of zirconia-doped hydroxyapatite for clinical applications. Materials Research Innovations, 2014, 18, S6-151-S6-154.	1.0	0
102	Manufacturability readiness of insulated Cu wire bonding process in PBGA package. , 2014, , .		0
103	Sintering studies of synthesised manganese-oxide-doped calcium phosphate via wet chemical precipitation method. Materials Research Innovations, 2014, 18, S6-147-S6-150.	1.0	0
104	Effect of Attritor Milling on Synthesis and Sintering of Forsterite Ceramics. International Journal of Applied Ceramic Technology, 2016, 13, 726-735.	1.1	0
105	Sintering Behaviour of TiO ₂ -Doped Alumina for Biomedical Application. IFMBE Proceedings, 2008, , 351-353.	0.2	0
106	Sintering and Mechanical Properties of MgO-Doped HA Bioceramic. Advanced Science Letters, 2012, 14, 278-280.	0.2	0
107	Sinteran Hidroksiapatit dalam Atmosfera Nitrogen untuk Peningkatan Sifat Mikrokekeraan. Sains Malaysiana, 2017, 46, 1635-1640.	0.3	0
108	Effect of Ionic Liquid and Nanoparticles on PVA-co-PE-Based GPEs for the Applications in DSSCs. Lecture Notes in Networks and Systems, 2019, , 5-5.	0.5	0