Shinn-Jyh Ding

List of Publications by Year
in descending order

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Version: 2024-02-01

102 papers	3,869 citations	101543 36 h-index	149698 56 g-index
102 all docs	102 docs citations	102 times ranked	4530 citing authors

#	Article	IF	Citations
1	Biomechanical evaluation of bridge span with three implant abutment designs and two connectors for tooth-implant supported prosthesis: A finite element analysis. Journal of Dental Sciences, 2023, 18, 248-263.	2.5	1
2	Biomechanical analysis of rigid and non-rigid connection with implant abutment designs for tooth-implant supported prosthesis: A finite element analysis. Journal of Dental Sciences, 2022, 17, 490-499.	2.5	11
3	Bond strength of self-adhesive resin cements to a high transparency zirconia crown and dentin. Journal of Dental Sciences, 2022, 17, 973-983.	2.5	5
4	Antibacterial ability and osteogenic activity of polyphenol-tailored calcium silicate bone cement. Journal of Materials Chemistry B, 2022, 10, 4640-4649.	5.8	6
5	Dissolved Oxygen-Sensing Chip Integrating an Open Container Connected with a Position-Raised Channel for Estimation of Cellular Mitochondrial Activity. ACS Sensors, 2022, 7, 1808-1818.	7.8	2
6	Mechanical Biocompatibility, Osteogenic Activity, and Antibacterial Efficacy of Calcium Silicateâ€“Zirconia Biocomposites. ACS Omega, 2021, 6, 7106-7118.	3.5	12
7	Synergistic Photoantimicrobial Chemotherapy of Methylene Blue-Encapsulated Chitosan on Biofilm-Contaminated Titanium. Pharmaceuticals, 2021, 14, 346.	3.8	8
8	Clinical outcomes and complications of posterior three-unit porcelain-fused-to-metal restoration combined with tooth-implant-supported prosthesis: A meta-analysis. Journal of Dental Sciences, 2021, 17, 184-193.	2.5	3
9	Electrosprayed calcium silicate nanoparticle-coated titanium implant with improved antibacterial activity and osteogenesis. Colloids and Surfaces B: Biointerfaces, 2021, 202, 111699.	5.0	12
10	Shear Bond Strength of Ceramic Veneers to Zirconiaâ€“Calcium Silicate Cores. Coatings, 2021, 11, 1326.	2.6	3
11	Experimental Pulp-Capping Agent Radiopaque Dicalcium Silicate Cement Facilitates Dentinogenesis. Frontiers in Materials, 2021, 8, .	2.4	0
12	The research on the dental bridge model-making process based on the curing shrinkage epoxy and residual stress reduction. Journal of Mechanics, 2021, 37, 659-668.	1.4	2
13	Mechanical and optical properties evaluation of rapid sintered dental zirconia. Ceramics International, 2020, 46, 26668-26674.	4.8	24
14	In vitro and in vivo osteogenesis of gelatin-modified calcium silicate cement with washout resistance. Materials Science and Engineering C, 2020, 117, 111297.	7.3	31
15	In vitro comparisons of microscale and nanoscale calcium silicate particles. Journal of Materials Chemistry B, 2020, 8, 6034-6047.	5.8	14
16	Oxygen Plasma Improved Shear Strength of Bonding between Zirconia and Composite Resin. Coatings, 2020, 10, 635.	2.6	12
17	Enhanced antibacterial activity of calcium silicate-based hybrid cements for bone repair. Materials Science and Engineering C, 2020, 110, 110727.	7.3	43
18	Rheology, crystallization behavior, and mechanical properties of poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (succinate-c	4.8	19

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19	Metal ion-dependent tailored antibacterial activity and biological properties of polydopamine-coated titanium implants. Surface and Coatings Technology, 2019, 378, 124998.	4.8	22
20	Enhancing osteoblast functions on biofilm-contaminated titanium alloy by concentration-dependent use of methylene blue-mediated antimicrobial photodynamic therapy. Photodiagnosis and Photodynamic Therapy, 2019, 27, 7-18.	2.6	10
21	Component effects of bioactive glass on corrosion resistance and in vitro biological properties of apatite-matrix coatings. Bio-Medical Materials and Engineering, 2019, 30, 207-218.	0.6	5
22	Antimicrobial efficacy of methylene blue-mediated photodynamic therapy on titanium alloy surfaces in vitro. Photodiagnosis and Photodynamic Therapy, 2019, 25, 7-16.	2.6	37
23	Calcium silicate layer on titanium fabricated by electrospray deposition. Materials Science and Engineering C, 2019, 98, 401-408.	7.3	17
24	Dopant-dependent tailoring of physicochemical and biological properties of calcium silicate bone cements. Bio-Medical Materials and Engineering, 2018, 29, 773-785.	0.6	7
25	Synergistic reinforcement of surface modification on improving the bonding of veneering ceramics to zirconia. Ceramics International, 2018, 44, 19665-19671.	4.8	8
26	Dual-functional bone implants with antibacterial ability and osteogenic activity. Journal of Materials Chemistry B, 2017, 5, 1943-1953.	5.8	33
27	A review on the biocompatibility and potential applications of graphene in inducing cell differentiation and tissue regeneration. Journal of Materials Chemistry B, 2017, 5, 3084-3102.	5.8	56
28	Enhanced properties of novel zirconia-based osteo-implant systems. Applied Materials Today, 2017, 9, 622-632.	4.3	24
29	Enhanced Physicochemical and Biological Properties of Ion-Implanted Titanium Using Electron Cyclotron Resonance Ion Sources. Materials, 2016, 9, 25.	2.9	16
30	Effectiveness of Hypochlorous Acid to Reduce the Biofilms on Titanium Alloy Surfaces in Vitro. International Journal of Molecular Sciences, 2016, 17, 1161.	4.1	41
31	Acid-resistant calcium silicate-based composite implants with high-strength as load-bearing bone graft substitutes and fracture fixation devices. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 62, 366-383.	3.1	17
32	Effects of Surface Conditions of Titanium Dental Implants on Bacterial Adhesion. Photomedicine and Laser Surgery, 2016, 34, 379-388.	2.0	42
33	In vitro degradation and angiogenesis of the porous calcium silicateâ€“gelatin composite scaffold. Journal of Materials Chemistry B, 2016, 4, 505-512.	5.8	15
34	Calcium silicate cements prepared by hydrothermal synthesis for bone repair. Ceramics International, 2016, 42, 9183-9189.	4.8	18
35	Impact Behavior of Three Notched All-Ceramic Restorations after Soaking in Artificial Saliva. Materials, 2015, 8, 4479-4490.	2.9	7
36	Green synthesis of calcium silicate bioceramic powders. Ceramics International, 2015, 41, 5445-5453.	4.8	37

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37	Comparative cell attachment, cytotoxicity and antibacterial activity of radiopaque dicalcium silicate cement and whiteâ€coloured mineral trioxide aggregate. International Endodontic Journal, 2015, 48, 268-276.	5.0	30
38	Enhanced Hydrophilicity and Biocompatibility of Dental Zirconia Ceramics by Oxygen Plasma Treatment. Materials, 2015, 8, 684-699.	2.9	66
39	Novel SiO₂/PDA hybrid coatings to promote osteoblast-like cell expression on titanium implants. Journal of Materials Chemistry B, 2015, 3, 2698-2707.	5.8	37
40	Stem cell differentiation-induced calcium silicate cement with bacteriostatic activity. Journal of Materials Chemistry B, 2015, 3, 570-580.	5.8	31
41	Fabrication of nanostructured copper phosphate electrodes for the detection of Î±-amino acids. Sensors and Actuators B: Chemical, 2015, 206, 584-591.	7.8	30
42	Structure, Properties and Applications of Mussel-Inspired Polydopamine. Journal of Biomedical Nanotechnology, 2014, 10, 3063-3084.	1.1	126
43	Improvement of in vitro physicochemical properties and osteogenic activity of calcium sulfate cement for bone repair by dicalcium silicate. Journal of Alloys and Compounds, 2014, 585, 25-31.	5.5	45
44	Dopamine-induced silicaâ€“polydopamine hybrids with controllable morphology. Chemical Communications, 2014, 50, 3602.	4.1	41
45	Improved physicochemical properties and biocompatibility of stainless steel implants by PVA/ZrO 2 -based composite coatings. Surface and Coatings Technology, 2014, 258, 374-380.	4.8	24
46	Physicochemical properties and osteogenic activity of radiopaque calcium silicateâ€“gelatin cements. Journal of Materials Science: Materials in Medicine, 2014, 25, 2193-2203.	3.6	18
47	Compositionâ€dependent protein secretion and integrin level of osteoblastic cell on calcium silicate cements. Journal of Biomedical Materials Research - Part A, 2014, 102, 769-780.	4.0	28
48	Effects of Chronic Treatment with Diosgenin on Bone Loss in a D-Galactose-Induced Aging Rat Model. Chinese Journal of Physiology, 2014, 57, 121-127.	1.0	20
49	The pH-controlled nanoparticles size of polydopamine for anti-cancer drug delivery. Journal of Materials Science: Materials in Medicine, 2013, 24, 2381-2390.	3.6	176
50	Integrin binding and MAPK signal pathways in primary cell responses to surface chemistry of calcium silicate cements. Biomaterials, 2013, 34, 6589-6606.	11.4	132
51	Calcium phosphate-based cements: clinical needs and recent progress. Journal of Materials Chemistry B, 2013, 1, 1081-1089.	5.8	97
52	Physicochemical properties of radiopaque dicalcium silicate cement as a rootâ€end filling material in an acidic environment. International Endodontic Journal, 2013, 46, 234-241.	5.0	14
53	Comparative Osteogenesis of Radiopaque Dicalcium Silicate Cement and White-Colored Mineral Trioxide Aggregate in a Rabbit Femur Model. Materials, 2013, 6, 5675-5689.	2.9	21
54	Bio-inspired calcium silicateâ€“gelatin bone grafts for load-bearing applications. Journal of Materials Chemistry, 2011, 21, 12793.	6.7	22

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55	In Vitro Physicochemical Properties, Osteogenic Activity, and Immunocompatibility of Calcium Silicateâ€“Gelatin Bone Grafts for Load-Bearing Applications. ACS Applied Materials & Interfaces, 2011, 3, 4142-4153.	8.0	42
56	The Significance of Gelatin in Calcium Phosphate Hybrid Bone Cement for Attachment and Differentiation of MG63 Cells. Advanced Engineering Materials, 2011, 13, B246.	3.5	10
57	The role of silicon in osteoblast-like cell proliferation and apoptosis. Acta Biomaterialia, 2011, 7, 2604-2614.	8.3	271
58	Controlled release of gentamicin from calcium phosphate/alginate bone cement. Materials Science and Engineering C, 2011, 31, 334-341.	7.3	36
59	Effect of polydimethylsiloxane surfaces silanized with different nitrogen-containing groups on the adhesion progress of epithelial cells. Surface and Coatings Technology, 2011, 205, 3182-3189.	4.8	22
60	Dentin Surface Modification Using the Er,Cr:YSGG Laser and a Meshwork Mask: Light and SEM Microscopic Observations. Photomedicine and Laser Surgery, 2011, 29, 433-435.	2.0	3
61	Properties of anti-washout-type calcium silicate bone cements containing gelatin. Journal of Materials Science: Materials in Medicine, 2010, 21, 1057-1068.	3.6	42
62	Preparation and properties of gold nanoparticle-electrodeposited titanium substrates with Arg-Gly-Asp-Cys peptides. Journal of Materials Science: Materials in Medicine, 2010, 21, 1511-1519.	3.6	17
63	Physicochemical properties and biocompatibility of chitosan oligosaccharide/gelatin/calcium phosphate hybrid cements. Materials Chemistry and Physics, 2010, 120, 282-288.	4.0	50
64	In vitro physiochemical properties of a biomimetic gelatin/chitosan oligosaccharide/calcium silicate cement. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 95B, 456-465.	3.4	28
65	Osteogenic Differentiation and Immune Response of Human Bone-Marrow-Derived Mesenchymal Stem Cells on Injectable Calcium-Silicate-Based Bone Grafts. Tissue Engineering - Part A, 2010, 16, 2343-2354.	3.1	50
66	Expression of the Inflammatory Marker Cyclooxygenase-2 in Dental Pulp Cells Cultured with Mineral Trioxide Aggregate or Calcium Silicate Cements. Journal of Endodontics, 2010, 36, 465-468.	3.1	34
67	Evaluation of Human Osteosarcoma Cell Line Genotoxicity Effects of Mineral Trixoide Aggregate and Calcium Silicate Cements. Journal of Endodontics, 2010, 36, 1158-1162.	3.1	24
68	Comparative Physicochemical and Biocompatible Properties of Radiopaque Dicalcium Silicate Cement and Mineral Trioxide Aggregate. Journal of Endodontics, 2010, 36, 1683-1687.	3.1	52
69	The Effect of a Physiologic Solution pH on Properties of White Mineral Trioxide Aggregate. Journal of Endodontics, 2009, 35, 98-101.	3.1	66
70	Properties of an Accelerated Mineral Trioxide Aggregateâ€“like Root-end Filling Material. Journal of Endodontics, 2009, 35, 239-242.	3.1	44
71	Comparison of Calcium and Silicate Cement and Mineral Trioxide Aggregate Biologic Effects and Bone Markers Expression in MG63 Cells. Journal of Endodontics, 2009, 35, 682-685.	3.1	79
72	Physicochemical Properties of Calcium Silicate Cements for Endodontic Treatment. Journal of Endodontics, 2009, 35, 1288-1291.	3.1	71

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73	In Vitro Bioactivity and Biocompatibility of Dicalcium Silicate Cements for Endodontic Use. Journal of Endodontics, 2009, 35, 1554-1557.	3.1	58
74	Novel fast-setting calcium silicate bone cements with high bioactivity and enhanced osteogenesis in vitro. Journal of Materials Chemistry, 2009, 19, 1183.	6.7	98
75	Effect of Er,Cr:YSGG Laser Parameters on Shear Bond Strength and Microstructure of Dentine. Photomedicine and Laser Surgery, 2009, 27, 481-486.	2.0	38
76	Development of the multi-functionalized gold nanoparticles with electrochemical-based immunoassay for protein A detection. Journal of Electroanalytical Chemistry, 2008, 619-620, 39-45.	3.8	35
77	Immersion behavior of gelatin-containing calcium phosphate cement. Acta Biomaterialia, 2008, 4, 646-655.	8.3	61
78	The Effect of Setting Accelerator on Properties of Mineral Trioxide Aggregate. Journal of Endodontics, 2008, 34, 590-593.	3.1	104
79	Biostable Gradient Coating Implants with Drug Release. , 2008, , .		0
80	The cytotoxicity of orthodontic metal bracket immersion media. European Journal of Orthodontics, 2007, 29, 198-203.	2.4	31
81	Cytotoxicity of Orthodontic Wire Corroded in Fluoride Solution In Vitro. Angle Orthodontist, 2007, 77, 349-354.	2.4	45
82	Biodegradation behavior of chitosan/calcium phosphate composites. Journal of Non-Crystalline Solids, 2007, 353, 2367-2373.	3.1	39
83	Biocompatibility of various formula root filling materials for primary teeth. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 486-490.	3.4	23
84	Effect of preoxidation of titanium on the titaniumâ€“ceramic bonding. Surface and Coatings Technology, 2007, 202, 288-293.	4.8	24
85	A new method for detection of endotoxin on polymyxin B-immobilized gold electrodes. Electrochemistry Communications, 2007, 9, 1206-1211.	4.7	61
86	Effect of Conditioners on Bond Durability of Resin Composite to Nd:YAP Laser-irradiated Dentin. Dental Materials Journal, 2006, 25, 463-469.	1.8	4
87	Preparation and Properties of Chitosan/Calcium Phosphate Composites for Bone Repair. Dental Materials Journal, 2006, 25, 706-712.	1.8	30
88	Effect of Heat Treatment on Characteristics of Plasma Sprayed Hydroxyapatite Coatings. Materials Transactions, 2006, 47, 935-940.	1.2	36
89	Comparison of frictional resistance after immersion of metal brackets and orthodontic wires in a fluoride-containing prophylactic agent. American Journal of Orthodontics and Dentofacial Orthopedics, 2006, 130, 568.e1-568.e9.	1.7	23
90	Characterization of functionally graded hydroxyapatite/titanium composite coatings plasma-sprayed on Ti alloys. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 78B, 146-152.	3.4	46

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91	Electrochemical evaluation of avidinâ€“biotin interaction on self-assembled gold electrodes. Electrochimica Acta, 2005, 50, 3660-3666.	5.2	71
92	In vitro degradation behavior of porous calcium phosphates under diametral compression loading. Ceramics International, 2005, 31, 691-696.	4.8	21
93	Mechanical properties of collagen gels derived from rats of different ages. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 1261-1275.	3.5	53
94	Induction of cyclooxygenase-2 expression in human pulp cells stimulated by dentin bonding agents. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2005, 100, 501-506.	1.4	13
95	Root canal sealers induce cytotoxicity and necrosis. Journal of Materials Science: Materials in Medicine, 2004, 15, 767-771.	3.6	63
96	Metal ion release from new and recycled stainless steel brackets. European Journal of Orthodontics, 2004, 26, 171-177.	2.4	38
97	Environmental effect on bond strength of magnetron-sputtered hydroxyapatite/titanium coatings. Journal of Materials Science Letters, 2003, 22, 479-482.	0.5	10
98	Effects of mineral trioxide aggregate (MTA) extracts on mitogen-activated protein kinase activity in human osteosarcoma cell line (U2OS). Biomaterials, 2003, 24, 3909-3913.	11.4	48
99	Properties and immersion behavior of magnetron-sputtered multi-layered hydroxyapatite/titanium composite coatings. Biomaterials, 2003, 24, 4233-4238.	11.4	105
100	The anticorrosion ability of titanium nitride (TiN) plating on an orthodontic metal bracket and its biocompatibility. Journal of Biomedical Materials Research Part B, 2002, 63, 786-792.	3.1	57
101	Characterization of hydroxyapatite and titanium coatings sputtered on Ti-6Al-4V substrate. , 1999, 44, 266-279.		62
102	Immersion behavior of RF magnetron-assisted sputtered hydroxyapatite/titanium coatings in simulated body fluid. , 1999, 47, 551-563.		53