

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 | The role of silicon in osteoblast-like cell proliferation and apoptosis. <i>Acta Biomaterialia</i> , 2011, 7, 2604-2614. | 8.3 | 271 |
| 2 | The pH-controlled nanoparticles size of polydopamine for anti-cancer drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2381-2390. | 3.6 | 176 |
| 3 | Integrin binding and MAPK signal pathways in primary cell responses to surface chemistry of calcium silicate cements. <i>Biomaterials</i> , 2013, 34, 6589-6606. | 11.4 | 132 |
| 4 | Structure, Properties and Applications of Mussel-Inspired Polydopamine. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 3063-3084. | 1.1 | 126 |
| 5 | Properties and immersion behavior of magnetron-sputtered multi-layered hydroxyapatite/titanium composite coatings. <i>Biomaterials</i> , 2003, 24, 4233-4238. | 11.4 | 105 |
| 6 | The Effect of Setting Accelerator on Properties of Mineral Trioxide Aggregate. <i>Journal of Endodontics</i> , 2008, 34, 590-593. | 3.1 | 104 |
| 7 | Novel fast-setting calcium silicate bone cements with high bioactivity and enhanced osteogenesis in vitro. <i>Journal of Materials Chemistry</i> , 2009, 19, 1183. | 6.7 | 98 |
| 8 | Calcium phosphate-based cements: clinical needs and recent progress. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1081-1089. | 5.8 | 97 |
| 9 | Comparison of Calcium and Silicate Cement and Mineral Trioxide Aggregate Biologic Effects and Bone Markers Expression in MG63 Cells. <i>Journal of Endodontics</i> , 2009, 35, 682-685. | 3.1 | 79 |
| 10 | Electrochemical evaluation of avidin-biotin interaction on self-assembled gold electrodes. <i>Electrochimica Acta</i> , 2005, 50, 3660-3666. | 5.2 | 71 |
| 11 | Physicochemical Properties of Calcium Silicate Cements for Endodontic Treatment. <i>Journal of Endodontics</i> , 2009, 35, 1288-1291. | 3.1 | 71 |
| 12 | The Effect of a Physiologic Solution pH on Properties of White Mineral Trioxide Aggregate. <i>Journal of Endodontics</i> , 2009, 35, 98-101. | 3.1 | 66 |
| 13 | Enhanced Hydrophilicity and Biocompatibility of Dental Zirconia Ceramics by Oxygen Plasma Treatment. <i>Materials</i> , 2015, 8, 684-699. | 2.9 | 66 |
| 14 | Root canal sealers induce cytotoxicity and necrosis. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 767-771. | 3.6 | 63 |
| 15 | Characterization of hydroxyapatite and titanium coatings sputtered on Ti-6Al-4V substrate. , 1999, 44, 266-279. | | 62 |
| 16 | A new method for detection of endotoxin on polymyxin B-immobilized gold electrodes. <i>Electrochemistry Communications</i> , 2007, 9, 1206-1211. | 4.7 | 61 |
| 17 | Immersion behavior of gelatin-containing calcium phosphate cement. <i>Acta Biomaterialia</i> , 2008, 4, 646-655. | 8.3 | 61 |
| 18 | In Vitro Bioactivity and Biocompatibility of Dicalcium Silicate Cements for Endodontic Use. <i>Journal of Endodontics</i> , 2009, 35, 1554-1557. | 3.1 | 58 |

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|----|--|------|-----------|
| 19 | The anticorrosion ability of titanium nitride (TiN) plating on an orthodontic metal bracket and its biocompatibility. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 786-792. | 3.1 | 57 |
| 20 | A review on the biocompatibility and potential applications of graphene in inducing cell differentiation and tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3084-3102. | 5.8 | 56 |
| 21 | Immersion behavior of RF magnetron-assisted sputtered hydroxyapatite/titanium coatings in simulated body fluid. , 1999, 47, 551-563. | | 53 |
| 22 | Mechanical properties of collagen gels derived from rats of different ages. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 1261-1275. | 3.5 | 53 |
| 23 | Comparative Physicochemical and Biocompatible Properties of Radiopaque Dicalcium Silicate Cement and Mineral Trioxide Aggregate. <i>Journal of Endodontics</i> , 2010, 36, 1683-1687. | 3.1 | 52 |
| 24 | Physicochemical properties and biocompatibility of chitosan oligosaccharide/gelatin/calcium phosphate hybrid cements. <i>Materials Chemistry and Physics</i> , 2010, 120, 282-288. | 4.0 | 50 |
| 25 | Osteogenic Differentiation and Immune Response of Human Bone-Marrow-Derived Mesenchymal Stem Cells on Injectable Calcium-Silicate-Based Bone Grafts. <i>Tissue Engineering - Part A</i> , 2010, 16, 2343-2354. | 3.1 | 50 |
| 26 | Effects of mineral trioxide aggregate (MTA) extracts on mitogen-activated protein kinase activity in human osteosarcoma cell line (U2OS). <i>Biomaterials</i> , 2003, 24, 3909-3913. | 11.4 | 48 |
| 27 | Characterization of functionally graded hydroxyapatite/titanium composite coatings plasma-sprayed on Ti alloys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 78B, 146-152. | 3.4 | 46 |
| 28 | Cytotoxicity of Orthodontic Wire Corroded in Fluoride Solution In Vitro. <i>Angle Orthodontist</i> , 2007, 77, 349-354. | 2.4 | 45 |
| 29 | Improvement of in vitro physicochemical properties and osteogenic activity of calcium sulfate cement for bone repair by dicalcium silicate. <i>Journal of Alloys and Compounds</i> , 2014, 585, 25-31. | 5.5 | 45 |
| 30 | Properties of an Accelerated Mineral Trioxide Aggregate-like Root-end Filling Material. <i>Journal of Endodontics</i> , 2009, 35, 239-242. | 3.1 | 44 |
| 31 | Enhanced antibacterial activity of calcium silicate-based hybrid cements for bone repair. <i>Materials Science and Engineering C</i> , 2020, 110, 110727. | 7.3 | 43 |
| 32 | Properties of anti-washout-type calcium silicate bone cements containing gelatin. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1057-1068. | 3.6 | 42 |
| 33 | In Vitro Physicochemical Properties, Osteogenic Activity, and Immunocompatibility of Calcium Silicate-Gelatin Bone Grafts for Load-Bearing Applications. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4142-4153. | 8.0 | 42 |
| 34 | Effects of Surface Conditions of Titanium Dental Implants on Bacterial Adhesion. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 379-388. | 2.0 | 42 |
| 35 | Dopamine-induced silica-polydopamine hybrids with controllable morphology. <i>Chemical Communications</i> , 2014, 50, 3602. | 4.1 | 41 |
| 36 | Effectiveness of Hypochlorous Acid to Reduce the Biofilms on Titanium Alloy Surfaces in Vitro. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1161. | 4.1 | 41 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Biodegradation behavior of chitosan/calcium phosphate composites. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2367-2373. | 3.1 | 39 |
| 38 | Metal ion release from new and recycled stainless steel brackets. <i>European Journal of Orthodontics</i> , 2004, 26, 171-177. | 2.4 | 38 |
| 39 | Effect of Er,Cr:YSGG Laser Parameters on Shear Bond Strength and Microstructure of Dentine. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 481-486. | 2.0 | 38 |
| 40 | Green synthesis of calcium silicate bioceramic powders. <i>Ceramics International</i> , 2015, 41, 5445-5453. | 4.8 | 37 |
| 41 | Novel SiO ₂ /PDA hybrid coatings to promote osteoblast-like cell expression on titanium implants. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2698-2707. | 5.8 | 37 |
| 42 | Antimicrobial efficacy of methylene blue-mediated photodynamic therapy on titanium alloy surfaces in vitro. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 7-16. | 2.6 | 37 |
| 43 | Effect of Heat Treatment on Characteristics of Plasma Sprayed Hydroxyapatite Coatings. <i>Materials Transactions</i> , 2006, 47, 935-940. | 1.2 | 36 |
| 44 | Controlled release of gentamicin from calcium phosphate/alginate bone cement. <i>Materials Science and Engineering C</i> , 2011, 31, 334-341. | 7.3 | 36 |
| 45 | Development of the multi-functionalized gold nanoparticles with electrochemical-based immunoassay for protein A detection. <i>Journal of Electroanalytical Chemistry</i> , 2008, 619-620, 39-45. | 3.8 | 35 |
| 46 | Expression of the Inflammatory Marker Cyclooxygenase-2 in Dental Pulp Cells Cultured with Mineral Trioxide Aggregate or Calcium Silicate Cements. <i>Journal of Endodontics</i> , 2010, 36, 465-468. | 3.1 | 34 |
| 47 | Dual-functional bone implants with antibacterial ability and osteogenic activity. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1943-1953. | 5.8 | 33 |
| 48 | The cytotoxicity of orthodontic metal bracket immersion media. <i>European Journal of Orthodontics</i> , 2007, 29, 198-203. | 2.4 | 31 |
| 49 | Stem cell differentiation-induced calcium silicate cement with bacteriostatic activity. <i>Journal of Materials Chemistry B</i> , 2015, 3, 570-580. | 5.8 | 31 |
| 50 | In vitro and in vivo osteogenesis of gelatin-modified calcium silicate cement with washout resistance. <i>Materials Science and Engineering C</i> , 2020, 117, 111297. | 7.3 | 31 |
| 51 | Preparation and Properties of Chitosan/Calcium Phosphate Composites for Bone Repair. <i>Dental Materials Journal</i> , 2006, 25, 706-712. | 1.8 | 30 |
| 52 | Comparative cell attachment, cytotoxicity and antibacterial activity of radiopaque dicalcium silicate cement and white-coloured mineral trioxide aggregate. <i>International Endodontic Journal</i> , 2015, 48, 268-276. | 5.0 | 30 |
| 53 | Fabrication of nanostructured copper phosphate electrodes for the detection of β -amino acids. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 584-591. | 7.8 | 30 |
| 54 | <i>In vitro</i> physiochemical properties of a biomimetic gelatin/chitosan oligosaccharide/calcium silicate cement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 95B, 456-465. | 3.4 | 28 |

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|----|--|-----|-----------|
| 55 | Composition-dependent protein secretion and integrin level of osteoblastic cell on calcium silicate cements. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 769-780. | 4.0 | 28 |
| 56 | Effect of preoxidation of titanium on the titanium-ceramic bonding. <i>Surface and Coatings Technology</i> , 2007, 202, 288-293. | 4.8 | 24 |
| 57 | Evaluation of Human Osteosarcoma Cell Line Genotoxicity Effects of Mineral Trioxide Aggregate and Calcium Silicate Cements. <i>Journal of Endodontics</i> , 2010, 36, 1158-1162. | 3.1 | 24 |
| 58 | Improved physicochemical properties and biocompatibility of stainless steel implants by PVA/ZrO ₂ -based composite coatings. <i>Surface and Coatings Technology</i> , 2014, 258, 374-380. | 4.8 | 24 |
| 59 | Enhanced properties of novel zirconia-based osteo-implant systems. <i>Applied Materials Today</i> , 2017, 9, 622-632. | 4.3 | 24 |
| 60 | Mechanical and optical properties evaluation of rapid sintered dental zirconia. <i>Ceramics International</i> , 2020, 46, 26668-26674. | 4.8 | 24 |
| 61 | Comparison of frictional resistance after immersion of metal brackets and orthodontic wires in a fluoride-containing prophylactic agent. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2006, 130, 568.e1-568.e9. | 1.7 | 23 |
| 62 | Biocompatibility of various formula root filling materials for primary teeth. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 80B, 486-490. | 3.4 | 23 |
| 63 | Bio-inspired calcium silicate-gelatin bone grafts for load-bearing applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 12793. | 6.7 | 22 |
| 64 | Effect of polydimethylsiloxane surfaces silanized with different nitrogen-containing groups on the adhesion progress of epithelial cells. <i>Surface and Coatings Technology</i> , 2011, 205, 3182-3189. | 4.8 | 22 |
| 65 | Metal ion-dependent tailored antibacterial activity and biological properties of polydopamine-coated titanium implants. <i>Surface and Coatings Technology</i> , 2019, 378, 124998. | 4.8 | 22 |
| 66 | In vitro degradation behavior of porous calcium phosphates under diametral compression loading. <i>Ceramics International</i> , 2005, 31, 691-696. | 4.8 | 21 |
| 67 | Comparative Osteogenesis of Radiopaque Dicalcium Silicate Cement and White-Colored Mineral Trioxide Aggregate in a Rabbit Femur Model. <i>Materials</i> , 2013, 6, 5675-5689. | 2.9 | 21 |
| 68 | Effects of Chronic Treatment with Diosgenin on Bone Loss in a D-Galactose-Induced Aging Rat Model. <i>Chinese Journal of Physiology</i> , 2014, 57, 121-127. | 1.0 | 20 |
| 69 | Rheology, crystallization behavior, and mechanical properties of poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (su | 4.8 | 19 |
| 70 | Physicochemical properties and osteogenic activity of radiopaque calcium silicate-gelatin cements. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2193-2203. | 3.6 | 18 |
| 71 | Calcium silicate cements prepared by hydrothermal synthesis for bone repair. <i>Ceramics International</i> , 2016, 42, 9183-9189. | 4.8 | 18 |
| 72 | Preparation and properties of gold nanoparticle-electrodeposited titanium substrates with Arg-Gly-Asp-Cys peptides. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1511-1519. | 3.6 | 17 |

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|----|--|-----|-----------|
| 73 | Acid-resistant calcium silicate-based composite implants with high-strength as load-bearing bone graft substitutes and fracture fixation devices. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 366-383. | 3.1 | 17 |
| 74 | Calcium silicate layer on titanium fabricated by electrospray deposition. <i>Materials Science and Engineering C</i> , 2019, 98, 401-408. | 7.3 | 17 |
| 75 | Enhanced Physicochemical and Biological Properties of Ion-Implanted Titanium Using Electron Cyclotron Resonance Ion Sources. <i>Materials</i> , 2016, 9, 25. | 2.9 | 16 |
| 76 | In vitro degradation and angiogenesis of the porous calcium silicate-gelatin composite scaffold. <i>Journal of Materials Chemistry B</i> , 2016, 4, 505-512. | 5.8 | 15 |
| 77 | Physicochemical properties of radiopaque dicalcium silicate cement as a root filling material in an acidic environment. <i>International Endodontic Journal</i> , 2013, 46, 234-241. | 5.0 | 14 |
| 78 | <i>In vitro</i> comparisons of microscale and nanoscale calcium silicate particles. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6034-6047. | 5.8 | 14 |
| 79 | Induction of cyclooxygenase-2 expression in human pulp cells stimulated by dentin bonding agents. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2005, 100, 501-506. | 1.4 | 13 |
| 80 | Oxygen Plasma Improved Shear Strength of Bonding between Zirconia and Composite Resin. <i>Coatings</i> , 2020, 10, 635. | 2.6 | 12 |
| 81 | Mechanical Biocompatibility, Osteogenic Activity, and Antibacterial Efficacy of Calcium Silicate-Zirconia Biocomposites. <i>ACS Omega</i> , 2021, 6, 7106-7118. | 3.5 | 12 |
| 82 | Electrosprayed calcium silicate nanoparticle-coated titanium implant with improved antibacterial activity and osteogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 202, 111699. | 5.0 | 12 |
| 83 | Biomechanical analysis of rigid and non-rigid connection with implant abutment designs for tooth-implant supported prosthesis: A finite element analysis. <i>Journal of Dental Sciences</i> , 2022, 17, 490-499. | 2.5 | 11 |
| 84 | Environmental effect on bond strength of magnetron-sputtered hydroxyapatite/titanium coatings. <i>Journal of Materials Science Letters</i> , 2003, 22, 479-482. | 0.5 | 10 |
| 85 | The Significance of Gelatin in Calcium Phosphate Hybrid Bone Cement for Attachment and Differentiation of MG63 Cells. <i>Advanced Engineering Materials</i> , 2011, 13, B246. | 3.5 | 10 |
| 86 | Enhancing osteoblast functions on biofilm-contaminated titanium alloy by concentration-dependent use of methylene blue-mediated antimicrobial photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 27, 7-18. | 2.6 | 10 |
| 87 | Synergistic reinforcement of surface modification on improving the bonding of veneering ceramics to zirconia. <i>Ceramics International</i> , 2018, 44, 19665-19671. | 4.8 | 8 |
| 88 | Synergistic Photoantimicrobial Chemotherapy of Methylene Blue-Encapsulated Chitosan on Biofilm-Contaminated Titanium. <i>Pharmaceuticals</i> , 2021, 14, 346. | 3.8 | 8 |
| 89 | Impact Behavior of Three Notched All-Ceramic Restorations after Soaking in Artificial Saliva. <i>Materials</i> , 2015, 8, 4479-4490. | 2.9 | 7 |
| 90 | Dopant-dependent tailoring of physicochemical and biological properties of calcium silicate bone cements. <i>Bio-Medical Materials and Engineering</i> , 2018, 29, 773-785. | 0.6 | 7 |

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|-----|--|-----|-----------|
| 91 | Antibacterial ability and osteogenic activity of polyphenol-tailored calcium silicate bone cement. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4640-4649. | 5.8 | 6 |
| 92 | Component effects of bioactive glass on corrosion resistance and in vitro biological properties of apatite-matrix coatings. <i>Bio-Medical Materials and Engineering</i> , 2019, 30, 207-218. | 0.6 | 5 |
| 93 | Bond strength of self-adhesive resin cements to a high transparency zirconia crown and dentin. <i>Journal of Dental Sciences</i> , 2022, 17, 973-983. | 2.5 | 5 |
| 94 | Effect of Conditioners on Bond Durability of Resin Composite to Nd:YAP Laser-irradiated Dentin. <i>Dental Materials Journal</i> , 2006, 25, 463-469. | 1.8 | 4 |
| 95 | Dentin Surface Modification Using the Er,Cr:YSGG Laser and a Meshwork Mask: Light and SEM Microscopic Observations. <i>Photomedicine and Laser Surgery</i> , 2011, 29, 433-435. | 2.0 | 3 |
| 96 | Clinical outcomes and complications of posterior three-unit porcelain-fused-to-metal restoration combined with tooth-implant-supported prosthesis: A meta-analysis. <i>Journal of Dental Sciences</i> , 2021, 17, 184-193. | 2.5 | 3 |
| 97 | Shear Bond Strength of Ceramic Veneers to Zirconia- ^{Ca} Calcium Silicate Cores. <i>Coatings</i> , 2021, 11, 1326. | 2.6 | 3 |
| 98 | The research on the dental bridge model-making process based on the curing shrinkage epoxy and residual stress reduction. <i>Journal of Mechanics</i> , 2021, 37, 659-668. | 1.4 | 2 |
| 99 | Dissolved Oxygen-Sensing Chip Integrating an Open Container Connected with a Position-Raised Channel for Estimation of Cellular Mitochondrial Activity. <i>ACS Sensors</i> , 2022, 7, 1808-1818. | 7.8 | 2 |
| 100 | Biomechanical evaluation of bridge span with three implant abutment designs and two connectors for tooth-implant supported prosthesis: A finite element analysis. <i>Journal of Dental Sciences</i> , 2023, 18, 248-263. | 2.5 | 1 |
| 101 | Biostable Gradient Coating Implants with Drug Release. , 2008, , . | | 0 |
| 102 | Experimental Pulp-Capping Agent Radiopaque Dicalcium Silicate Cement Facilitates Dentinogenesis. <i>Frontiers in Materials</i> , 2021, 8, . | 2.4 | 0 |