

# Yu Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126  
papers

6,282  
citations

46  
h-index

77  
g-index

132  
ext. papers

7,470  
ext. citations

5.5  
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6.45  
L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 126 | Fracture resistance of Ceramic-Polymer hybrid materials using microscopic finite element analysis and experimental validation.. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2022</b> , 1-11        | 2.1 | 0         |
| 125 | High surface integrity fabrication of silicon wafers using a newly developed nonwoven structured grind-polishing wheel. <i>Journal of Manufacturing Processes</i> , <b>2022</b> , 77, 229-239                                  | 5   | 0         |
| 124 | THRESHOLD DAMAGE MECHANISMS IN BRITTLE SOLIDS AND THEIR IMPACT ON ADVANCED TECHNOLOGIES. <i>Acta Materialia</i> , <b>2022</b> , 117921   | 8.4 | 2         |
| 123 | Laboratory methods to simulate the mechanical degradation of resin composite restorations.. <i>Dental Materials</i> , <b>2021</b> ,  | 5.7 | 4         |
| 122 | Coating Dental Implants with Synthetic Bone Mineral for Early New Bone Formation in Vivo. <i>Journal of Hard Tissue Biology</i> , <b>2021</b> , 30, 339-346  | 0.4 | 0         |
| 121 | Novel speed sintered zirconia by microwave technology. <i>Dental Materials</i> , <b>2021</b> , 37, 875-881   | 5.7 | 4         |
| 120 | Extended glaze firings for porcelain-veneered zirconia: Effects on the mechanical and optical behavior. <i>Dental Materials</i> , <b>2021</b> , 37, 1096-1106  | 5.7 | 0         |
| 119 | Metal-ceramic and porcelain-veneered lithium disilicate crowns: a stress profile comparison using a viscoelastic finite element model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2021</b> , 1-12 | 2.1 | 1         |
| 118 | Micromechanics of Machining and Wear in Hard and Brittle Materials. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 5-22   | 3.8 | 31        |
| 117 | Influence of CAD/CAM milling, sintering and surface treatments on the fatigue behavior of lithium disilicate glass ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 113, 104133      | 4.1 | 5         |
| 116 | Damage sensitivity of dental zirconias to simulated occlusal contact. <i>Dental Materials</i> , <b>2021</b> , 37, 158-167  | 5.7 | 4         |
| 115 | Effect of finishing/polishing techniques and aging on topography, C. albicans adherence, and flexural strength of ultra-translucent zirconia: an in situ study. <i>Clinical Oral Investigations</i> , <b>2021</b> , 1          | 4.2 | 1         |
| 114 | Microstructural development during crystallization firing of a dental-grade nanostructured lithia-zirconia glass-ceramic. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 5728-5739                         | 6   | 2         |
| 113 | Residual stresses explaining clinical fractures of bilayer zirconia and lithium disilicate crowns: A VFEM study. <i>Dental Materials</i> , <b>2021</b> , 37, 1655-1666   | 5.7 | 5         |
| 112 | Edge chipping test in dentistry: A comprehensive review. <i>Dental Materials</i> , <b>2020</b> , 36, e74-e84   | 5.7 | 11        |
| 111 | Sliding contact wear and subsurface damage of CAD/CAM materials against zirconia. <i>Dental Materials</i> , <b>2020</b> , 36, 387-401  | 5.7 | 17        |
| 110 | An in situ and ex situ study of the microstructural evolution of a novel lithium silicate glass-ceramic during crystallization firing. <i>Dental Materials</i> , <b>2020</b> , 36, 645-659                                     | 5.7 | 7         |

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| 109 | Probing the interfacial strength of novel multi-layer zirconias. <i>Dental Materials</i> , <b>2020</b> , 36, 60-67   | 5.7 | 15 |
| 108 | In vivo efficacy of calcium phosphate-based synthetic-bone-mineral on bone loss resulting from estrogen and mineral deficiencies. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 1868-1878 | 3.5 | 1  |
| 107 | Viscoelastic finite element evaluation of transient and residual stresses in dental crowns: Design parametric study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 103, 103545                             | 4.1 | 9  |
| 106 | Wear behavior and microstructural characterization of translucent multilayer zirconia. <i>Dental Materials</i> , <b>2020</b> , 36, 1407-1417   | 5.7 | 6  |
| 105 | Flexural strength and crystalline stability of a monolithic translucent zirconia subjected to grinding, polishing and thermal challenges. <i>Ceramics International</i> , <b>2020</b> , 46, 26168-26175  | 5.1 | 6  |
| 104 | Effect of finishing/polishing techniques and low temperature degradation on the surface topography, phase transformation and flexural strength of ultra-translucent ZrO ceramic. <i>Dental Materials</i> , <b>2020</b> , 36, e126-e139         | 5.7 | 19 |
| 103 | Non-silicate nanoparticles for improved nanohybrid resin composites. <i>Dental Materials</i> , <b>2020</b> , 36, 1314-1321   | 5.7 | 1  |
| 102 | Inverse correlations between wear and mechanical properties in biphasic dental materials with ceramic constituents. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 105, 103722                              | 4.1 | 5  |
| 101 | Effect of extrinsic pigmentation and surface treatments on biaxial flexure strength after cyclic loading of a translucent ZrO ceramic. <i>Dental Materials</i> , <b>2019</b> , 35, 1644-1653   | 5.7 | 3  |
| 100 | The progressive wear and abrasiveness of novel graded glass/zirconia materials relative to their dental ceramic counterparts. <i>Dental Materials</i> , <b>2019</b> , 35, 763-771  | 5.7 | 10 |
| 99  | New multi-layered zirconias: Composition, microstructure and translucency. <i>Dental Materials</i> , <b>2019</b> , 35, 797-806   | 5.7 | 71 |
| 98  | Do thermal treatments affect the mechanical behavior of porcelain-veneered zirconia? A systematic review and meta-analysis. <i>Dental Materials</i> , <b>2019</b> , 35, 807-817  | 5.7 | 11 |
| 97  | Wear Behavior of Graded Glass/Zirconia Crowns and Their Antagonists. <i>Journal of Dental Research</i> , <b>2019</b> , 98, 437-442   | 8.1 | 12 |
| 96  | Silica-Based Infiltrations for Enhanced Zirconia-Resin Interface Toughness. <i>Journal of Dental Research</i> , <b>2019</b> , 98, 423-429  | 8.1 | 12 |
| 95  | Microstructural development during heat treatment of a commercially available dental-grade lithium disilicate glass-ceramic. <i>Dental Materials</i> , <b>2019</b> , 35, 697-708   | 5.7 | 12 |
| 94  | Evaluating dental zirconia. <i>Dental Materials</i> , <b>2019</b> , 35, 15-23  | 5.7 | 47 |
| 93  | Influence of residual thermal stresses on the edge chipping resistance of PFM and veneered zirconia structures: Experimental and FEA study. <i>Dental Materials</i> , <b>2019</b> , 35, 344-355  | 5.7 | 17 |
| 92  | Zirconia surface modifications for implant dentistry. <i>Materials Science and Engineering C</i> , <b>2019</b> , 98, 1294-1305   | 5.7 | 93 |

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| 91 | Wear of ceramic-based dental materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 92, 144-151  | 4.1 | 37  |
| 90 | Ultrathin Monolithic Zirconia Veneers: Reality or Future? Report of a Clinical Case and One-year Follow-up. <i>Operative Dentistry</i> , <b>2018</b> , 43, 3-11  | 2.9 | 21  |
| 89 | Graded Ultra-Translucent Zirconia (5Y-PSZ) for Strength and Functionalities. <i>Journal of Dental Research</i> , <b>2018</b> , 97, 1222-1228   | 8.1 | 43  |
| 88 | Viscoelastic finite element analysis of residual stresses in porcelain-veneered zirconia dental crowns. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 82, 202-209  | 4.1 | 30  |
| 87 | Novel Zirconia Materials in Dentistry. <i>Journal of Dental Research</i> , <b>2018</b> , 97, 140-147   | 8.1 | 254 |
| 86 | Novel Translucent and Strong Submicron Alumina Ceramics for Dental Restorations. <i>Journal of Dental Research</i> , <b>2018</b> , 97, 289-295   | 8.1 | 8   |
| 85 | Using glass-graded zirconia to increase delamination growth resistance in porcelain/zirconia dental structures. <i>Dental Materials</i> , <b>2018</b> , 34, e8-e14   | 5.7 | 7   |
| 84 | Functionally graded nanostructured biomaterials (FGNB) <b>2018</b> , 159-180   |     |     |
| 83 | Load-bearing capacity of lithium disilicate and ultra-translucent zirconias. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 88, 170-175   | 4.1 | 40  |
| 82 | Effects of two grading techniques of zirconia material on the fatigue limit of full-contour 3-unit fixed dental prostheses. <i>Dental Materials</i> , <b>2017</b> , 33, e155-e164  | 5.7 | 28  |
| 81 | THERMAL RESIDUAL STRESSES IN BILAYERED, TRILAYERED AND GRADED DENTAL CERAMICS. <i>Ceramics International</i> , <b>2017</b> , 43, 3670-3678   | 5.1 | 16  |
| 80 | Speed sintering translucent zirconia for chairside one-visit dental restorations: Optical, mechanical, and wear characteristics. <i>Ceramics International</i> , <b>2017</b> , 43, 10999-11005   | 5.1 | 57  |
| 79 | Antibacterial and bioactive coatings on titanium implant surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 2218-2227   | 5.4 | 47  |
| 78 | Fatigue limit of monolithic Y-TZP three-unit-fixed dental prostheses: Effect of grinding at the gingival zone of the connector. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 72, 1594-1624                    | 4.1 | 4   |
| 77 | Dental Ceramics for Restoration and Metal Veneering. <i>Dental Clinics of North America</i> , <b>2017</b> , 61, 797-819  | 3.3 | 78  |
| 76 | A review of engineered zirconia surfaces in biomedical applications. <i>Procedia CIRP</i> , <b>2017</b> , 65, 284-290  | 1.8 | 39  |
| 75 | Fracture, roughness and phase transformation in CAD/CAM milling and subsequent surface treatments of lithium metasilicate/disilicate glass-ceramics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 74, 251-260 | 4.1 | 29  |
| 74 | Influence of interlayer design on residual thermal stresses in trilayered and graded all-ceramic restorations. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 1037-1045  | 8.3 | 16  |

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| 73 | Interfaces in fixed dental prostheses: Challenges and opportunities <b>2017</b> , 67-83  |     |     |
| 72 | Effects of porcelain thickness on the flexural strength and crack propagation in a bilayered zirconia system. <i>Journal of Applied Oral Science</i> , <b>2017</b> , 25, 566-574   | 3.3 | 4   |
| 71 | Preservation and promotion of bone formation in the mandible as a response to a novel calcium-phosphate based biomaterial in mineral deficiency induced low bone mass male versus female rats. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1622-32 | 5.4 | 4   |
| 70 | Fracture-resistant monolithic dental crowns. <i>Dental Materials</i> , <b>2016</b> , 32, 442-9   | 5.7 | 58  |
| 69 | Fatigue resistance of CAD/CAM resin composite molar crowns. <i>Dental Materials</i> , <b>2016</b> , 32, 499-509  | 5.7 | 64  |
| 68 | Mono or polycrystalline alumina-modified hybrid ceramics. <i>Dental Materials</i> , <b>2016</b> , 32, 450-60   | 5.7 | 2   |
| 67 | Characterization of three commercial Y-TZP ceramics produced for their high-translucency, high-strength and high-surface area. <i>Ceramics International</i> , <b>2016</b> , 42, 1077-1085   | 5.1 | 89  |
| 66 | Wear behavior of pressable lithium disilicate glass ceramic. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 968-78   | 3.5 | 38  |
| 65 | Experimental and finite element study of residual thermal stresses in veneered Y-TZP structures. <i>Ceramics International</i> , <b>2016</b> , 42, 9214-9221   | 5.1 | 17  |
| 64 | The bending stress distribution in bilayered and graded zirconia-based dental ceramics. <i>Ceramics International</i> , <b>2016</b> , 42, 11025-11031  | 5.1 | 28  |
| 63 | Polymer infiltrated ceramic network structures for resistance to fatigue fracture and wear. <i>Dental Materials</i> , <b>2016</b> , 32, 1352-1361  | 5.7 | 46  |
| 62 | Silica Coating of Nonsilicate Nanoparticles for Resin-Based Composite Materials. <i>Journal of Dental Research</i> , <b>2016</b> , 95, 1394-1400   | 8.1 | 11  |
| 61 | Effects of cementation surface modifications on fracture resistance of zirconia. <i>Dental Materials</i> , <b>2015</b> , 31, 435-42  | 5.7 | 28  |
| 60 | On the interfacial fracture resistance of resin-bonded zirconia and glass-infiltrated graded zirconia. <i>Dental Materials</i> , <b>2015</b> , 31, 1304-11   | 5.7 | 28  |
| 59 | A fractographic study of clinically retrieved zirconia-ceramic and metal-ceramic fixed dental prostheses. <i>Dental Materials</i> , <b>2015</b> , 31, 1198-206   | 5.7 | 65  |
| 58 | Failure Probability of Three Designs of Zirconia Crowns. <i>International Journal of Periodontics and Restorative Dentistry</i> , <b>2015</b> , 35, 843-9  | 2.1 | 20  |
| 57 | Marginal and internal fit of heat pressed versus CAD/CAM fabricated all-ceramic onlays after exposure to thermo-mechanical fatigue. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 199-209  | 4.8 | 60  |
| 56 | Making yttria-stabilized tetragonal zirconia translucent. <i>Dental Materials</i> , <b>2014</b> , 30, 1195-203   | 5.7 | 280 |

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| 55 | Characterization of a polymer-infiltrated ceramic-network material. <i>Dental Materials</i> , <b>2014</b> , 30, 564-9  | 5.7  | 186 |
| 54 | Sliding contact fracture of dental ceramics: Principles and validation. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 3243-53.8  | 5.8  | 44  |
| 53 | On the interfacial fracture of porcelain/zirconia and graded zirconia dental structures. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 3756-61   | 10.8 | 49  |
| 52 | Antibacterial property expressed by a novel calcium phosphate glass. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2014</b> , 102, 423-9                                  | 3.5  | 11  |
| 51 | Edge chipping and flexural resistance of monolithic ceramics. <i>Dental Materials</i> , <b>2013</b> , 29, 1201-8   | 5.7  | 146 |
| 50 | Influence of preparation design and ceramic thicknesses on fracture resistance and failure modes of premolar partial coverage restorations. <i>Journal of Prosthetic Dentistry</i> , <b>2013</b> , 110, 264-73 | 4    | 64  |
| 49 | Load-bearing properties of minimal-invasive monolithic lithium disilicate and zirconia occlusal onlays: finite element and theoretical analyses. <i>Dental Materials</i> , <b>2013</b> , 29, 742-51            | 5.7  | 83  |
| 48 | Fatigue of dental ceramics. <i>Journal of Dentistry</i> , <b>2013</b> , 41, 1135-47  | 4.8  | 161 |
| 47 | Load-bearing increase in alumina evoked by introduction of a functional glass gradient. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 1213-1220   | 6    | 10  |
| 46 | Overview: Damage resistance of graded ceramic restorative materials. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 2623-2632  | 6    | 44  |
| 45 | Contact fatigue response of porcelain-veneered alumina model systems. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2012</b> , 100, 508-15                                | 3.5  | 7   |
| 44 | Chipping resistance of graded zirconia ceramics for dental crowns. <i>Journal of Dental Research</i> , <b>2012</b> , 91, 311-5   | 8.1  | 74  |
| 43 | Residual stresses in porcelain-veneered zirconia prostheses. <i>Dental Materials</i> , <b>2012</b> , 28, 873-9   | 5.7  | 76  |
| 42 | Designing functionally graded materials with superior load-bearing properties. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 1101-8   | 10.8 | 84  |
| 41 | Reliability and fatigue failure modes of implant-supported aluminum-oxide fixed dental prostheses. <i>Clinical Oral Implants Research</i> , <b>2012</b> , 23, 1173-80  | 4.8  | 5   |
| 40 | Reliability and failure modes of implant-supported zirconium-oxide fixed dental prostheses related to veneering techniques. <i>Journal of Dentistry</i> , <b>2011</b> , 39, 489-98                             | 4.8  | 57  |
| 39 | Performance of dental ceramics: challenges for improvements. <i>Journal of Dental Research</i> , <b>2011</b> , 90, 937-52  | 8.1  | 237 |
| 38 | Improving fatigue damage resistance of alumina through surface grading. <i>Journal of Dental Research</i> , <b>2011</b> , 90, 1026-30  | 8.1  | 11  |

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| 37 | Sliding contact fatigue of graded zirconia with external esthetic glass. <i>Journal of Dental Research</i> , <b>2011</b> , 90, 1116-21   | 8.1 | 28  |
| 36 | Concerns of hydrothermal degradation in CAD/CAM zirconia. <i>Journal of Dental Research</i> , <b>2010</b> , 89, 91-5   | 8.1 | 170 |
| 35 | Graded structures for all-ceramic restorations. <i>Journal of Dental Research</i> , <b>2010</b> , 89, 417-21   | 8.1 | 64  |
| 34 | Damage and reliability of Y-TZP after cementation surface treatment. <i>Journal of Dental Research</i> , <b>2010</b> , 89, 592-6   | 8.1 | 85  |
| 33 | Graded zirconia glass for resistance to veneer fracture. <i>Journal of Dental Research</i> , <b>2010</b> , 89, 1057-62   | 8.1 | 43  |
| 32 | Performance of Zirconia for Dental Healthcare. <i>Materials</i> , <b>2010</b> , 3, 863-896   | 3.5 | 48  |
| 31 | Improving the resistance to sliding contact damage of zirconia using elastic gradients. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2010</b> , 94, 347-52 | 3.5 | 32  |
| 30 | Fracture Modes in Curved Brittle Layers Subject to Concentrated Cyclic Loading in Liquid Environments. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 1075-1081                        | 2.5 | 5   |
| 29 | Graded structures for damage resistant and aesthetic all-ceramic restorations. <i>Dental Materials</i> , <b>2009</b> , 25, 781-90  | 5.7 | 100 |
| 28 | Off-axis sliding contact reliability and failure modes of veneered alumina and zirconia. <i>Dental Materials</i> , <b>2009</b> , 25, 892-8   | 5.7 | 31  |
| 27 | Competition of fracture mechanisms in monolithic dental ceramics: flat model systems. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 88, 402-11   | 3.5 | 57  |
| 26 | Effects of geometry on fracture initiation and propagation in all-ceramic crowns. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 88, 436-46       | 3.5 | 35  |
| 25 | Optimization of ceramic strength using elastic gradients. <i>Acta Materialia</i> , <b>2009</b> , 57, 2721-2729   | 8.4 | 54  |
| 24 | Shear bond strengths between different zirconia cores and veneering ceramics and their susceptibility to thermocycling. <i>Dental Materials</i> , <b>2008</b> , 24, 1556-67                      | 5.7 | 184 |
| 23 | Damage maps for layered ceramics under simulated mastication. <i>Journal of Dental Research</i> , <b>2008</b> , 87, 671-5  | 8.1 | 51  |
| 22 | Damage maps of veneered zirconia under simulated mastication. <i>Journal of Dental Research</i> , <b>2008</b> , 87, 1127-32  | 8.1 | 45  |
| 21 | Fracture of porcelain-veneered structures in fatigue. <i>Journal of Dental Research</i> , <b>2007</b> , 86, 142-6  | 8.1 | 91  |
| 20 | Role of indenter material and size in veneer failure of brittle layer structures. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 82, 253-9        | 3.5 | 28  |

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| 19 | Design maps for failure of all-ceramic layer structures in concentrated cyclic loading. <i>Acta Materialia</i> , <b>2007</b> , 55, 2479-2488  | 8.4  | 24  |
| 18 | Failure Modes in Ceramic-Based Layer Structures: A Basis for Materials Design of Dental Crowns. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1671-1683                        | 3.8  | 64  |
| 17 | Sliding contact fatigue damage in layered ceramic structures. <i>Journal of Dental Research</i> , <b>2007</b> , 86, 1046-50   | 5.0  | 78  |
| 16 | Can material properties predict survival of all-ceramic posterior crowns?. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , <b>2007</b> , 28, 362-8; quiz 369, 386   | 0.3  | 10  |
| 15 | Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Trilayer structures. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 512-521  | 2.5  | 37  |
| 14 | Use of HEMA in Gelcasting of Ceramics: A Case Study on Fused Silica. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 060623005134011-???   | 3.8  |     |
| 13 | Damage accumulation and fatigue life of particle-abraded ceramics. <i>International Journal of Prosthodontics</i> , <b>2006</b> , 19, 442-8   | 1.9  | 139 |
| 12 | Fatigue sensitivity of Y-TZP to microscale sharp-contact flaws. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2005</b> , 72, 388-92                            | 3.5  | 52  |
| 11 | Deep-penetrating conical cracks in brittle layers from hydraulic cyclic contact. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2005</b> , 73, 186-93           | 3.5  | 63  |
| 10 | Competing Damage Modes in All-Ceramic Crowns: Fatigue and Lifetime. <i>Key Engineering Materials</i> , <b>2005</b> , 284-286, 697-700   | 0.4  | 7   |
| 9  | Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Monoliths. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2021-2029          | 2.5  | 42  |
| 8  | Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Bilayer structures. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2792-2800 | 2.5  | 41  |
| 7  | Long-term strength of ceramics for biomedical applications. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 69, 166-72   |      | 60  |
| 6  | Fatigue and damage tolerance of Y-TZP ceramics in layered biomechanical systems. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 71, 166-71                                  |      | 49  |
| 5  | Effect of sandblasting on the long-term performance of dental ceramics. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 71, 381-6  |      | 317 |
| 4  | Materials design in the performance of all-ceramic crowns. <i>Biomaterials</i> , <b>2004</b> , 25, 2885-92  | 15.6 | 176 |
| 3  | Influence of microstructure on the erosive wear behaviour of Ca Bialon materials. <i>Journal of the European Ceramic Society</i> , <b>2001</b> , 21, 2435-2445                                      | 6    | 21  |
| 2  | Erosion of alumina ceramics by air- and water-suspended garnet particles. <i>Wear</i> , <b>2000</b> , 240, 40-51  | 3.5  | 58  |



- 1 The effect of postmenopausal estrogen therapy on bone density in elderly women. *New England Journal of Medicine*, **1993**, 329, 1141-6 59.2 499