

Ralf-Joachim Kohal

List of Publications by Citations

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77
papers

2,118
citations

27
h-index

44
g-index

86
ext. papers

2,562
ext. citations

4.5
avg, IF

5.12
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 77 | Are ceramic implants a viable alternative to titanium implants? A systematic literature review. <i>Clinical Oral Implants Research</i> , 2009 , 20 Suppl 4, 32-47 | 4.8 | 245 |
| 76 | Loaded custom-made zirconia and titanium implants show similar osseointegration: an animal experiment. <i>Journal of Periodontology</i> , 2004 , 75, 1262-8 | 4.6 | 233 |
| 75 | The gene-expression and phenotypic response of hFOB 1.19 osteoblasts to surface-modified titanium and zirconia. <i>Biomaterials</i> , 2009 , 30, 979-90 | 15.6 | 122 |
| 74 | Fracture strength of zirconia implants after artificial aging. <i>Clinical Implant Dentistry and Related Research</i> , 2009 , 11, 158-66 | 3.9 | 89 |
| 73 | Biomechanical and histological behavior of zirconia implants: an experiment in the rat. <i>Clinical Oral Implants Research</i> , 2009 , 20, 333-9 | 4.8 | 82 |
| 72 | Osteoblast and bone tissue response to surface modified zirconia and titanium implant materials. <i>Dental Materials</i> , 2013 , 29, 763-76 | 5.7 | 69 |
| 71 | One-piece zirconia oral implants: one-year results from a prospective cohort study. 1. Single tooth replacement. <i>Journal of Clinical Periodontology</i> , 2012 , 39, 590-7 | 7.7 | 67 |
| 70 | The effects of cyclic loading and preparation on the fracture strength of zirconium-dioxide implants: an in vitro investigation. <i>Clinical Oral Implants Research</i> , 2011 , 22, 808-14 | 4.8 | 62 |
| 69 | One-piece zirconia oral implants: one-year results from a prospective case series. 2. Three-unit fixed dental prosthesis (FDP) reconstruction. <i>Journal of Clinical Periodontology</i> , 2013 , 40, 553-62 | 7.7 | 52 |
| 68 | Low temperature degradation and reliability of one-piece ceramic oral implants with a porous surface. <i>Dental Materials</i> , 2013 , 29, 389-97 | 5.7 | 51 |
| 67 | Performance of Zirconia for Dental Healthcare. <i>Materials</i> , 2010 , 3, 863-896 | 3.5 | 48 |
| 66 | Stability of prototype two-piece zirconia and titanium implants after artificial aging: an in vitro pilot study. <i>Clinical Implant Dentistry and Related Research</i> , 2009 , 11, 323-9 | 3.9 | 41 |
| 65 | Three-dimensional computerized stress analysis of commercially pure titanium and yttrium-partially stabilized zirconia implants. <i>International Journal of Prosthodontics</i> , 2002 , 15, 189-94 | 1.9 | 40 |
| 64 | Fatigue induced changes in conical implant-abutment connections. <i>Dental Materials</i> , 2015 , 31, 1415-26 | 5.7 | 36 |
| 63 | Clinical outcomes of partial and full-arch all-ceramic implant-supported fixed dental prostheses. A systematic review and meta-analysis. <i>Clinical Oral Implants Research</i> , 2018 , 29 Suppl 18, 224-236 | 4.8 | 36 |
| 62 | Distinct cell functions of osteoblasts on UV-functionalized titanium- and zirconia-based implant materials are modulated by surface topography. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 850-63 | 2.9 | 35 |
| 61 | Osseointegration of zirconia dental implants in animal investigations: A systematic review and meta-analysis. <i>Dental Materials</i> , 2018 , 34, 171-182 | 5.7 | 35 |

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| 60 | The clinical performance of all-ceramic implant-supported single crowns: A systematic review and meta-analysis. <i>Clinical Oral Implants Research</i> , 2018 , 29 Suppl 18, 196-223 | 4.8 | 33 |
| 59 | Evaluation of a one-piece ceramic implant used for single-tooth replacement and three-unit fixed partial dentures: a prospective cohort clinical trial. <i>Clinical Oral Implants Research</i> , 2016 , 27, 751-61 | 4.8 | 32 |
| 58 | Two-piece zirconia oral implants withstand masticatory loads: An investigation in the artificial mouth. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 53, 1-10 | 4.1 | 30 |
| 57 | Controlling osteoblast morphology and proliferation via surface micro-topographies of implant biomaterials. <i>Scientific Reports</i> , 2020 , 10, 12810 | 4.9 | 30 |
| 56 | CAD/CAM-fabricated ceramic implant-supported single crowns made from lithium disilicate: Final results of a 5-year prospective cohort study. <i>Clinical Implant Dentistry and Related Research</i> , 2017 , 19, 876-883 | 3.9 | 29 |
| 55 | Evaluation of Zirconia-Based All-Ceramic Single Crowns and Fixed Dental Prosthesis on Zirconia Implants: 5-Year Results of a Prospective Cohort Study. <i>Clinical Implant Dentistry and Related Research</i> , 2015 , 17, 1014-28 | 3.9 | 29 |
| 54 | Alumina reinforced zirconia implants: effects of cyclic loading and abutment modification on fracture resistance. <i>Dental Materials</i> , 2015 , 31, 262-72 | 5.7 | 29 |
| 53 | Zirconia implants restored with single crowns or fixed dental prostheses: 5-year results of a prospective cohort investigation. <i>Clinical Oral Implants Research</i> , 2020 , 31, 452-462 | 4.8 | 27 |
| 52 | CAD/CAM-fabricated implant-supported restorations: a systematic review. <i>Clinical Oral Implants Research</i> , 2015 , 26 Suppl 11, 77-85 | 4.8 | 27 |
| 51 | Histological analysis of loaded zirconia and titanium dental implants: an experimental study in the dog mandible. <i>Journal of Clinical Periodontology</i> , 2015 , 42, 967-75 | 7.7 | 27 |
| 50 | A zirconia implant-crown system: a case report. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2004 , 24, 147-53 | 2.1 | 26 |
| 49 | Three-year analysis of zirconia implants used for single-tooth replacement and three-unit fixed dental prostheses: A prospective multicenter study. <i>Clinical Oral Implants Research</i> , 2018 , 29, 290-299 | 4.8 | 24 |
| 48 | In vitro reaction of human osteoblasts on alumina-toughened zirconia. <i>Clinical Oral Implants Research</i> , 2009 , 20, 1265-71 | 4.8 | 22 |
| 47 | Fracture resistance of zirconia-based implant abutments after artificial long-term aging. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 66, 224-232 | 4.1 | 20 |
| 46 | Evaluation of zirconia-based posterior single crowns supported by zirconia implants: preliminary results of a prospective multicenter study. <i>Clinical Oral Implants Research</i> , 2017 , 28, 613-619 | 4.8 | 18 |
| 45 | Fracture Resistance of Zirconia Oral Implants In Vitro: A Systematic Review and Meta-Analysis. <i>Materials</i> , 2020 , 13, | 3.5 | 18 |
| 44 | Alumina reinforced zirconia implants: 1-year results from a prospective cohort investigation. <i>Clinical Oral Implants Research</i> , 2016 , 27, 481-90 | 4.8 | 18 |
| 43 | Peri-implant bone response to retrieved human zirconia oral implants after a 4-year loading period: A histologic and histomorphometric evaluation of 22 cases. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1622-1631 | 3.5 | 18 |

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| 42 | Implant-retained prostheses: ball vs. conus attachments - A randomized controlled clinical trial. <i>Clinical Oral Implants Research</i> , 2017 , 28, 177-185 | 4.8 | 17 |
| 41 | Cellular transcriptional response to zirconia-based implant materials. <i>Dental Materials</i> , 2017 , 33, 241-255 | 5.7 | 17 |
| 40 | Differences in morphogenesis of 3D cultured primary human osteoblasts under static and microfluidic growth conditions. <i>Biomaterials</i> , 2014 , 35, 3208-19 | 15.6 | 17 |
| 39 | Evaluation of alumina toughened zirconia implants with a sintered, moderately rough surface: An experiment in the rat. <i>Dental Materials</i> , 2016 , 32, 65-72 | 5.7 | 16 |
| 38 | Long-term stability of an injection-molded zirconia bone-level implant: A testing protocol considering aging kinetics and dynamic fatigue. <i>Dental Materials</i> , 2017 , 33, 954-965 | 5.7 | 15 |
| 37 | All-ceramic single crowns supported by zirconia implants: 5-year results of a prospective multicenter study. <i>Clinical Oral Implants Research</i> , 2019 , 30, 466-475 | 4.8 | 14 |
| 36 | All-Ceramic Single Crown Restauration of Zirconia Oral Implants and Its Influence on Fracture Resistance: An Investigation in the Artificial Mouth. <i>Materials</i> , 2015 , 8, 1577-1589 | 3.5 | 14 |
| 35 | Clinical and patient-reported outcomes of zirconia-based implant fixed dental prostheses: Results of a prospective case series 5 years after implant placement. <i>Clinical Oral Implants Research</i> , 2018 , 29, 91-99 | 4.8 | 14 |
| 34 | Initial Bacterial Adhesion on Different Yttria-Stabilized Tetragonal Zirconia Implant Surfaces. <i>Materials</i> , 2013 , 6, 5659-5674 | 3.5 | 14 |
| 33 | Monolithic lithium-disilicate single crowns supported by zirconia oral implants: three-year results of a prospective cohort study. <i>Clinical Oral Implants Research</i> , 2016 , 27, 1160-8 | 4.8 | 14 |
| 32 | Impact of shortened dental arch on oral health-related quality of life over a period of 10 years - A randomized controlled trial. <i>Journal of Dentistry</i> , 2019 , 80, 55-62 | 4.8 | 14 |
| 31 | Virtual implant planning and fully guided implant surgery using magnetic resonance imaging-Proof of principle. <i>Clinical Oral Implants Research</i> , 2020 , 31, 575-583 | 4.8 | 13 |
| 30 | A Prospective Clinical Cohort Investigation on Zirconia Implants: 5-Year Results. <i>Journal of Clinical Medicine</i> , 2020 , 9, | 5.1 | 12 |
| 29 | Stability and aging resistance of a zirconia oral implant using a carbon fiber-reinforced screw for implant-abutment connection. <i>Dental Materials</i> , 2018 , 34, 1585-1595 | 5.7 | 12 |
| 28 | All-ceramic, bi-layered crowns supported by zirconia implants: Three-year results of a prospective multicenter study. <i>Journal of Dentistry</i> , 2017 , 67, 58-65 | 4.8 | 11 |
| 27 | One-piece zirconia oral implants for single-tooth replacement: Three-year results from a long-term prospective cohort study. <i>Journal of Clinical Periodontology</i> , 2018 , 45, 114-124 | 7.7 | 11 |
| 26 | Distribution and Chemical Speciation of Exogenous Micro- and Nanoparticles in Inflamed Soft Tissue Adjacent to Titanium and Ceramic Dental Implants. <i>Analytical Chemistry</i> , 2020 , 92, 14432-14443 | 7.8 | 8 |
| 25 | Immunohistological composition of peri-implantitis affected tissue around ceramic implants-A pilot study. <i>Journal of Periodontology</i> , 2021 , 92, 571-579 | 4.6 | 8 |

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| 24 | Reconstructive aspects: Summary and consensus statements of group 3. The 5 EAO Consensus Conference 2018. <i>Clinical Oral Implants Research</i> , 2018 , 29 Suppl 18, 237-242 | 4.8 | 8 |
| 23 | Marginal bone-level alterations of loaded zirconia and titanium dental implants: an experimental study in the dog mandible. <i>Clinical Oral Implants Research</i> , 2016 , 27, 412-20 | 4.8 | 6 |
| 22 | Bi-layered zirconia/fluor-apatite bridges supported by ceramic dental implants: a prospective case series after thirty months of observation. <i>Clinical Oral Implants Research</i> , 2016 , 27, 1265-1273 | 4.8 | 6 |
| 21 | Does Printing Orientation Matter? In-Vitro Fracture Strength of Temporary Fixed Dental Prosthesis after a 1-Year Simulation in the Artificial Mouth. <i>Materials</i> , 2021 , 14, | 3.5 | 6 |
| 20 | Does Oral Implant Design Affect Marginal Bone Loss? Results of a Parallel-Group Randomized Controlled Equivalence Trial. <i>BioMed Research International</i> , 2018 , 2018, 8436437 | 3 | 6 |
| 19 | A systematic review and meta-analysis evaluating the survival, the failure, and the complication rates of veneered and monolithic all-ceramic implant-supported single crowns. <i>Clinical Oral Implants Research</i> , 2021 , 32 Suppl 21, 254-288 | 4.8 | 5 |
| 18 | Polymers for conventional, subtractive, and additive manufacturing of occlusal devices differ in hardness and flexural properties but not in wear resistance. <i>Dental Materials</i> , 2021 , 37, 432-442 | 5.7 | 5 |
| 17 | Software-based evaluation of human attractiveness: a pilot study. <i>Journal of Prosthetic Dentistry</i> , 2014 , 112, 1176-81 | 4 | 4 |
| 16 | Accuracy of intraoral scans: An in vivo study of different scanning devices. <i>Journal of Prosthetic Dentistry</i> , 2021 , | 4 | 4 |
| 15 | Periodontal health in shortened dental arches: A 10-year RCT. <i>Journal of Prosthodontic Research</i> , 2020 , 64, 498-505 | 4.3 | 3 |
| 14 | Clinical Performance of CAD/CAM All-Ceramic Tooth-Supported Fixed Dental Prosthesis: A Systematic Review and Meta-Analysis. <i>Materials</i> , 2021 , 14, | 3.5 | 3 |
| 13 | 5-year randomized multicenter clinical trial on single dental implants placed in the midline of the edentulous mandible. <i>Clinical Oral Implants Research</i> , 2021 , 32, 212-221 | 4.8 | 3 |
| 12 | Fracture resistance and crystal phase transformation of a one- and a two-piece zirconia implant with and without simultaneous loading and aging-An in vitro study. <i>Clinical Oral Implants Research</i> , 2021 , 32, 1288-1298 | 4.8 | 3 |
| 11 | Reliability of an injection-moulded two-piece zirconia implant with PEKK abutment after long-term thermo-mechanical loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103967 ¹ | 4.1 | 2 |
| 10 | A Novel Zirconia-Based Composite Presents an Aging Resistant Material for Narrow-Diameter Ceramic Implants. <i>Materials</i> , 2021 , 14, | 3.5 | 2 |
| 9 | Influence of zirconia implant surface topography on first bone implant contact within a prospective cohort study. <i>Clinical Implant Dentistry and Related Research</i> , 2021 , 23, 593-599 | 3.9 | 2 |
| 8 | Contemporary Digital Restorative and Minimal-Invasive Preservative Surgical Techniques in the Esthetic Zone: A Case Report. <i>Implant Dentistry</i> , 2018 , 27, 142-145 | 2.4 | 1 |
| 7 | Clinical Longevity of Zirconia Implants with the Focus on Biomechanical and Biological Outcome. <i>Current Oral Health Reports</i> , 2020 , 7, 344-351 | 1.2 | 1 |

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| 6 | Synchrotron-based micro computed tomography investigation of the implant-abutment fatigue-induced microgap changes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 116, 104330 | 4.1 | 1 |
| 5 | The influence of prosthetic crown height and implant-abutment connection design selection on the long-term implant-abutment stability: A laboratory study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 113, 104095 | 4.1 | 1 |
| 4 | IMPACT OF SHORTENED DENTAL ARCH ON ORAL HEALTH-RELATED QUALITY OF LIFE.. <i>Journal of Evidence-based Dental Practice</i> , 2021 , 21, 101622 | 1.9 | 1 |
| 3 | Human osteoblast and fibroblast response to oral implant biomaterials functionalized with non-thermal oxygen plasma. <i>Scientific Reports</i> , 2021 , 11, 17302 | 4.9 | 1 |
| 2 | Zirconia Ceramics: Clinical and Biological Aspects in Dentistry 2021 , 817-832 | | 0 |
| 1 | Keramikimplantate: Was wissen wir?. <i>Zahnmedizin Up2date</i> , 2018 , 12, 379-390 | | 0 |