

# Benedikt Spies

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

1,822  
citations

257450

24  
h-index

302126

39  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1537  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Outcomes of Zirconia Dental Implants: A Systematic Review. <i>Journal of Dental Research</i> , 2017, 96, 38-46.	5.2	164
2	Trade-off between fracture resistance and translucency of zirconia and lithium-disilicate glass ceramics for monolithic restorations. <i>Acta Biomaterialia</i> , 2019, 91, 24-34.	8.3	138
3	3-D Printed Protective Equipment during COVID-19 Pandemic. <i>Materials</i> , 2020, 13, 1997.	2.9	75
4	High-translucent yttria-stabilized zirconia ceramics are wear-resistant and antagonist-friendly. <i>Dental Materials</i> , 2019, 35, 1776-1790.	3.5	61
5	The clinical performance of all-ceramic implant-supported single crowns: A systematic review and meta-analysis. <i>Clinical Oral Implants Research</i> , 2018, 29, 196-223.	4.5	60
6	Fatigue induced changes in conical implant-abutment connections. <i>Dental Materials</i> , 2015, 31, 1415-1426.	3.5	58
7	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, 224-236.	4.5	58
8	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.	4.5	52
9	Osseointegration of zirconia dental implants in animal investigations: A systematic review and meta-analysis. <i>Dental Materials</i> , 2018, 34, 171-182.	3.5	50
10	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.	3.7	44
11	Clinical and Patient-reported Outcomes of a Zirconia Oral Implant. <i>Journal of Dental Research</i> , 2015, 94, 1385-1391.	5.2	40
12	CAD/CAM-fabricated implant-supported restorations: a systematic review. <i>Clinical Oral Implants Research</i> , 2015, 26, 77-85.	4.5	39
13	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.	3.1	39
14	Dimensional accuracy of extrusion- and photopolymerization-based 3D printers: In vitro study comparing printed casts. <i>Journal of Prosthetic Dentistry</i> , 2021, 125, 103-110.	2.8	39
15	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.	4.5	36
16	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, 1014-1028.	3.7	35
17	Alumina reinforced zirconia implants: Effects of cyclic loading and abutment modification on fracture resistance. <i>Dental Materials</i> , 2015, 31, 262-272.	3.5	35
18	Fracture Resistance of Zirconia Oral Implants In Vitro: A Systematic Review and Meta-Analysis. <i>Materials</i> , 2020, 13, 562.	2.9	35

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19	A Prospective Clinical Cohort Investigation on Zirconia Implants: 5-Year Results. <i>Journal of Clinical Medicine</i> , 2020, 9, 2585.	2.4	32
20	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.	3.1	31
21	How Accurate Is Oral Implant Installation Using Surgical Guides Printed from a Degradable and Steam-Sterilized Biopolymer?. <i>Journal of Clinical Medicine</i> , 2020, 9, 2322.	2.4	31
22	Does ambient light affect the accuracy and scanning time of intraoral scans?. <i>Journal of Prosthetic Dentistry</i> , 2021, 125, 924-931.	2.8	30
23	Alumina reinforced zirconia implants: 1-year results from a prospective cohort investigation. <i>Clinical Oral Implants Research</i> , 2016, 27, 481-490.	4.5	29
24	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.	3.5	27
25	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.	3.4	25
26	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.	4.5	24
27	Survival rates and complication behaviour of tooth implant-supported, fixed dental prostheses: A systematic review and meta-analysis. <i>Journal of Dentistry</i> , 2019, 88, 103167.	4.1	23
28	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.	4.5	22
29	Does Printing Orientation Matter? In-Vitro Fracture Strength of Temporary Fixed Dental Prostheses after a 1-Year Simulation in the Artificial Mouth. <i>Materials</i> , 2021, 14, 259.	2.9	21
30	Measured accuracy of intraoral scanners is highly dependent on methodical factors. <i>Journal of Prosthodontic Research</i> , 2022, 66, 318-325.	2.8	20
31	Efficacy of enzymatic mouth rinses for immobilisation of protective enzymes in the in situ pellicle. <i>Archives of Oral Biology</i> , 2010, 55, 1-6.	1.8	19
32	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, 1160-1168.	4.5	19
33	Implant-retained prostheses: ball vs. conus attachments – A randomized controlled clinical trial. <i>Clinical Oral Implants Research</i> , 2017, 28, 177-185.	4.5	19
34	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.	3.5	19
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.	4.5	19
36	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.	4.9	19

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37	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.	3.5	19
38	Implementation of Fused Filament Fabrication in Dentistry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6444.	2.5	18
39	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.	2.9	17
40	Socket Shield Technique for Implant Placement in the Esthetic Zone: A Case Report. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2017, 37, 853-860.	1.0	17
41	Reliability and aging behavior of three different zirconia grades used for monolithic four-unit fixed dental prostheses. <i>Dental Materials</i> , 2020, 36, e329-e339.	3.5	17
42	Do hydrothermal aging and microwave sterilization affect the trueness of milled, additive manufactured and injection molded denture bases?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 111, 103975.	3.1	16
43	Bond strength of conventional, subtractive, and additive manufactured denture bases to soft and hard relining materials. <i>Dental Materials</i> , 2021, 37, 928-938.	3.5	16
44	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.	4.1	15
45	Accuracy and its impact on fit of injection molded, milled and additively manufactured occlusal splints. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 114, 104179.	3.1	15
46	In Vitro Time Efficiency, Fit, and Wear of Conventionally- versus Digitally-Fabricated Occlusal Splints. <i>Materials</i> , 2022, 15, 1085.	2.9	15
47	Reconstructive aspects: Summary and consensus statements of group 3. The 5 <sup>th</sup> EAO Consensus Conference 2018. <i>Clinical Oral Implants Research</i> , 2018, 29, 237-242.	4.5	13
48	Clinical Outcomes of Root-Analogue Implants Restored with Single Crowns or Fixed Dental Prostheses: A Retrospective Case Series. <i>Journal of Clinical Medicine</i> , 2020, 9, 2346.	2.4	13
49	Air seal performance of personalized and statistically shaped 3D-printed face masks compared with market-available surgical and FFP2 masks. <i>Scientific Reports</i> , 2021, 11, 19347.	3.3	13
50	Retrospective long-term clinical evaluation of implant-prosthetic rehabilitations after head and neck cancer therapy. <i>Clinical Oral Implants Research</i> , 2021, 32, 470-486.	4.5	10
51	Bi-layered zirconia/fluorapatite 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.	4.5	9
52	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.	3.1	9
53	Pandemic-Driven Development of a Medical-Grade, Economic and Decentralized Applicable Polyolefin Filament for Additive Fused Filament Fabrication. <i>Molecules</i> , 2020, 25, 5929.	3.8	9
54	Direct or Indirect Restoration of Endodontically Treated Maxillary Central Incisors with Class III Defects? Composite vs Veneer or Crown Restoration. <i>Journal of Adhesive Dentistry</i> , 2018, 20, 519-526.	0.5	9

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55	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.	3.1	8
56	Digital Impression-Taking Facilitates Prosthetic Rehabilitation of Microstomia Patients: A Case History Report. <i>International Journal of Prosthodontics</i> , 2018, 32, 110-112.	1.7	7
57	Does Oral Implant Design Affect Marginal Bone Loss? Results of a Parallel-Group Randomized Controlled Equivalence Trial. <i>BioMed Research International</i> , 2018, 2018, 1-11.	1.9	7
58	Is a Zirconia Dental Implant Safe When It Is Available on the Market?. <i>Ceramics</i> , 2019, 2, 568-577.	2.6	7
59	Fracture resistance and crystal phase transformation of a one-piece and a two-piece zirconia implant with and without simultaneous loading and aging: An <i>in vitro</i> study. <i>Clinical Oral Implants Research</i> , 2021, 32, 1288-1298.	4.5	7
60	A Novel Zirconia-Based Composite Presents an Aging Resistant Material for Narrow-Diameter Ceramic Implants. <i>Materials</i> , 2021, 14, 2151.	2.9	6
61	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.	3.7	6
62	Cytotoxicity of polymers intended for the extrusion-based additive manufacturing of surgical guides. <i>Scientific Reports</i> , 2022, 12, 7391.	3.3	6
63	Prosthodontic Rehabilitation with Fixed Monolithic Translucent Zirconia Restorations: A Case History Report. <i>International Journal of Prosthodontics</i> , 2019, 32, 544-548.	1.7	5
64	Digital Production of a Zirconia, Implant-Supported Removable Prosthesis with an Individual Bar Attachment Milled from Polyether Ether Ketone: A Case History Report. <i>International Journal of Prosthodontics</i> , 2018, 31, 471-474.	1.7	4
65	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.	3.1	4
66	Guided implant surgery for one-piece ceramic implants: a digital workflow. <i>International Journal of Computerized Dentistry</i> , 2020, 23, 73-82.	0.2	4
67	Creating an anatomical wax-up in partially edentulous patients by means of a statistical shape model. <i>International Journal of Computerized Dentistry</i> , 2022, 0, 0.	0.2	3
68	A Novel Method for Digital Reconstruction of the Mucogingival Borderline in Optical Scans of Dental Plaster Casts. <i>Journal of Clinical Medicine</i> , 2022, 11, 2383.	2.4	3
69	Forced Orthodontic Extrusion: A Practical Therapy Method for Apparently Hopeless Teeth? A Case Report. <i>International Journal of Prosthodontics</i> , 2020, 33, 684-688.	1.7	2
70	Digitization of One-Piece Oral Implants: A Feasibility Study. <i>Materials</i> , 2020, 13, 1990.	2.9	2
71	Contemporary Digital Restorative and Minimal-Invasive Preservative Surgical Techniques in the Esthetic Zone. <i>Implant Dentistry</i> , 2018, 27, 142-145.	1.3	1
72	Digital and Orthodontically Driven Implant Planning: A Multidisciplinary Case History Report. <i>International Journal of Prosthodontics</i> , 2019, 32, 214-216.	1.7	1

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73	Restoration of 1325 teeth with partial-coverage crowns manufactured from high noble metal alloys: a retrospective case series 18.8 years after prosthetic delivery. <i>Clinical Oral Investigations</i> , 2022, 26, 849-861.	3.0	1