

Benoit Schaller

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,689
citations

361413

20
h-index

330143

37
g-index

74
all docs

74
docs citations

74
times ranked

1845
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Comparative release of growth factors from PRP, PRF, and advanced-PRF. <i>Clinical Oral Investigations</i> , 2016, 20, 2353-2360. | 3.0 | 448 |
| 2 | InÂvivo degradation of magnesium plate/screw osteosynthesis implant systems: Soft and hard tissue response in a calvarial model in miniature pigs. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 309-317. | 1.7 | 61 |
| 3 | Biological characterization of an injectable platelet-rich fibrin mixture consisting of autologous albumin gel and liquid platelet-rich fibrin (Alb-PRF). <i>Platelets</i> , 2021, 32, 74-81. | 2.3 | 56 |
| 4 | Use of platelet-rich fibrin for the treatment of gingival recessions: a systematic review and meta-analysis. <i>Clinical Oral Investigations</i> , 2020, 24, 2543-2557. | 3.0 | 49 |
| 5 | Risk of Osteonecrosis of the Jaw Under Denosumab Compared to Bisphosphonates in Patients With Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 340-348. | 2.8 | 48 |
| 6 | The role of postoperative prophylactic antibiotics in the treatment of facial fractures: a randomized, double-blind, placebo-controlled pilot clinical study. Part 2: mandibular fractures in 59 patients. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2013, 51, 803-807. | 0.8 | 47 |
| 7 | Improved growth factor delivery and cellular activity using concentrated platelet-rich fibrin (C-PRF) when compared with traditional injectable (i-PRF) protocols. <i>Clinical Oral Investigations</i> , 2020, 24, 4373-4383. | 3.0 | 43 |
| 8 | Histological comparison of Platelet rich fibrin clots prepared by fixed-angle versus horizontal centrifugation. <i>Platelets</i> , 2021, 32, 413-419. | 2.3 | 41 |
| 9 | The role of postoperative prophylactic antibiotics in the treatment of facial fractures: a randomised, double-blind, placebo-controlled pilot clinical study. Part 3: Le Fort and zygomatic fractures in 94 patients. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2014, 52, 329-333. | 0.8 | 40 |
| 10 | Osteogenic potential of rhBMP9 combined with a bovineâ€derived natural bone mineral scaffold compared to rhBMP2. <i>Clinical Oral Implants Research</i> , 2017, 28, 381-387. | 4.5 | 40 |
| 11 | Insight into cytotoxicity of Mg nanocomposites using MTT assay technique. <i>Materials Science and Engineering C</i> , 2017, 78, 647-652. | 7.3 | 38 |
| 12 | In vivo degradation of a new concept of magnesium-based rivet-screws in the minipig mandibular bone. <i>Materials Science and Engineering C</i> , 2016, 69, 247-254. | 7.3 | 36 |
| 13 | Recombinant Human Bone Morphogenetic Protein 9 (rhBMP9) Induced Osteoblastic Behavior on a Collagen Membrane Compared With rhBMP2. <i>Journal of Periodontology</i> , 2016, 87, e101-e107. | 3.4 | 35 |
| 14 | New approach for virtual surgical planning and mandibular reconstruction using a fibula free flap. <i>Oral Oncology</i> , 2016, 59, e6-e9. | 1.5 | 31 |
| 15 | Fracture Healing and Bone Remodeling With Human Standard-Sized Magnesium Versus Polylactideâ€Co-Glycolide Plate and Screw Systems Using a Mini-Swine Craniomaxillofacial Osteotomy Fixation Model. <i>Journal of Oral and Maxillofacial Surgery</i> , 2018, 76, 2138-2150. | 1.2 | 30 |
| 16 | Survival of dental implants and occurrence of osteoradionecrosis in irradiated head and neck cancer patients: a systematic review and meta-analysis. <i>Clinical Oral Investigations</i> , 2021, 25, 5579-5593. | 3.0 | 25 |
| 17 | Boneâ€Conditioned Medium Inhibits Osteogenic and Adipogenic Differentiation of Mesenchymal Cells In Vitro. <i>Clinical Implant Dentistry and Related Research</i> , 2015, 17, 938-949. | 3.7 | 24 |
| 18 | Effects of platelet rich plasma (PRP) on human gingival fibroblast, osteoblast and periodontal ligament cell behaviour. <i>BMC Oral Health</i> , 2017, 17, 91. | 2.3 | 24 |

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|----|---|-----|-----------|
| 19 | Effect of recombinant human bone morphogenic protein 9 (rhBMP9) loaded onto bone grafts versus barrier membranes on new bone formation in a rabbit calvarial defect model. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2655-2661. | 4.0 | 22 |
| 20 | Growth factor delivery of BMP9 using a novel natural bovine bone graft with integrated atelo-collagen type I: Biosynthesis, characterization, and cell behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 408-418. | 4.0 | 22 |
| 21 | Guided bone regeneration with recombinant human bone morphogenetic protein 9 loaded on either deproteinized bovine bone mineral or a collagen barrier membrane. <i>Clinical Implant Dentistry and Related Research</i> , 2017, 19, 600-607. | 3.7 | 21 |
| 22 | Prevalence of Peri-Implantitis in Implants with Turned and Rough Surfaces: a Systematic Review. <i>Journal of Oral & Maxillofacial Research</i> , 2019, 10, e1. | 1.0 | 21 |
| 23 | Single-staged vs. two-staged implant placement using bone ring technique in vertically deficient alveolar ridges - Part 1: histomorphometric and micro-CT analysis. <i>Clinical Oral Implants Research</i> , 2016, 27, 1384-1391. | 4.5 | 20 |
| 24 | Osteosynthesis of partial rib osteotomy in a miniature pig model using human standard-sized magnesium plate/screw systems: Effect of cyclic deformation on implant integrity and bone healing. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 862-871. | 1.7 | 20 |
| 25 | Changing trends in epidemiology and management of facial trauma in a Swiss geriatric population. <i>Gerodontology</i> , 2019, 36, 358-364. | 2.0 | 20 |
| 26 | Absorbable collagen sponges loaded with recombinant bone morphogenetic protein 9 induces greater osteoblast differentiation when compared to bone morphogenetic protein 2. <i>Clinical and Experimental Dental Research</i> , 2017, 3, 32-40. | 1.9 | 19 |
| 27 | Superior bone-inducing potential of rhBMP9 compared to rhBMP2. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1561-1574. | 4.0 | 19 |
| 28 | Hyaluronic Acid Gel-Based Scaffolds as Potential Carrier for Growth Factors: An In Vitro Bioassay on Its Osteogenic Potential. <i>Journal of Clinical Medicine</i> , 2016, 5, 112. | 2.4 | 18 |
| 29 | Stereographic measurement of orbital volume, a digital reproducible evaluation method. <i>British Journal of Ophthalmology</i> , 2017, 101, 1431-1435. | 3.9 | 18 |
| 30 | Analysis of New Bone Formation Induced by Periosteal Distraction in a Rat Calvarium Model. <i>Clinical Implant Dentistry and Related Research</i> , 2013, 15, 283-291. | 3.7 | 17 |
| 31 | The impact of the size of bone substitute granules on macrophage and osteoblast behaviors in vitro. <i>Clinical Oral Investigations</i> , 2021, 25, 4949-4958. | 3.0 | 17 |
| 32 | Periosteal Distraction Osteogenesis and Barrier Membrane Application: An Experimental Study in the Rat Calvaria. <i>Journal of Periodontology</i> , 2012, 83, 757-765. | 3.4 | 16 |
| 33 | Human bone chips release of sclerostin and FGF-23 into the culture medium: an in vitro pilot study. <i>Clinical Oral Implants Research</i> , 2015, 26, 1211-1214. | 4.5 | 16 |
| 34 | Effects of Antiseptic Solutions Commonly Used in Dentistry on Bone Viability, Bone Morphology, and Release of Growth Factors. <i>Journal of Oral and Maxillofacial Surgery</i> , 2016, 74, 247-254. | 1.2 | 15 |
| 35 | Recombinant human BMP9 (RhBMP9) in comparison with rhBMP2 for ridge augmentation following tooth extraction: An experimental study in the Beagle dog. <i>Clinical Oral Implants Research</i> , 2018, 29, 1050-1059. | 4.5 | 15 |
| 36 | Relative Contributions of Osteogenic Tissues to New Bone Formation in Periosteal Distraction Osteogenesis: Histological and Histomorphometrical Evaluation in a Rat Calvaria. <i>Clinical Implant Dentistry and Related Research</i> , 2013, 15, 692-706. | 3.7 | 14 |

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|----|---|-----|-----------|
| 37 | Antiseptic solutions modulate the paracrine-like activity of bone chips: differential impact of chlorhexidine and sodium hypochlorite. <i>Journal of Clinical Periodontology</i> , 2015, 42, 883-891. | 4.9 | 14 |
| 38 | Comparative evaluation of SPECT/CT and CBCT in patients with mandibular osteomyelitis and osteonecrosis. <i>Clinical Oral Investigations</i> , 2019, 23, 4213-4222. | 3.0 | 14 |
| 39 | Effects of additional collagen in biphasic calcium phosphates: a study in a rabbit calvaria. <i>Clinical Oral Investigations</i> , 2020, 24, 3093-3103. | 3.0 | 13 |
| 40 | Single-staged vs. two-staged implant placement in vertically deficient alveolar ridges using bone ring technique - Part 2: implant osseointegration. <i>Clinical Oral Implants Research</i> , 2017, 28, e31-e38. | 4.5 | 12 |
| 41 | Perioperative predictors of early surgical revision and flap-related complications after microvascular free tissue transfer in head and neck reconstructions: a retrospective observational series. <i>Clinical Oral Investigations</i> , 2021, 25, 5541-5550. | 3.0 | 12 |
| 42 | Mandibular Fractures Admitted to the Emergency Department: Data Analysis from a Swiss Level One Trauma Centre. <i>Emergency Medicine International</i> , 2016, 2016, 1-7. | 0.8 | 11 |
| 43 | Single-staged implant placement using bone ring technique with and without membrane placement: An experimental study in the Beagle dog. <i>Clinical Oral Implants Research</i> , 2018, 29, 263-276. | 4.5 | 11 |
| 44 | Repair of Orbital Floor Fractures Using Bioresorbable Poly-L/DL-Lactide Plates. <i>Archives of Facial Plastic Surgery</i> , 2010, 12, 399-404. | 0.7 | 11 |
| 45 | Recombinant human bone morphogenetic protein (rhBMP)9 induces osteoblast differentiation when combined with demineralized freeze-dried bone allografts (DFDBAs) or biphasic calcium phosphate (BCP). <i>Clinical Oral Investigations</i> , 2017, 21, 1883-1893. | 3.0 | 10 |
| 46 | An in vitro study of fibrin sealant as a carrier system for recombinant human bone morphogenetic protein (rhBMP)9 for bone tissue engineering. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 27-32. | 1.7 | 10 |
| 47 | In Vivo Efficacy of Neutrophil-Mediated Bone Regeneration Using a Rabbit Calvarial Defect Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13016. | 4.1 | 10 |
| 48 | Characteristics, treatment and outcome of bleeding after tooth extraction in patients on DOAC and phenprocoumon compared to non-anticoagulated patients - a retrospective study of emergency department consultations. <i>Clinical Oral Investigations</i> , 2019, 23, 2273-2278. | 3.0 | 9 |
| 49 | Single-staged implant placement using the bone ring technique with and without membrane placement: Micro-CT analysis in a preclinical in vivo study. <i>Clinical Oral Implants Research</i> , 2020, 31, 29-36. | 4.5 | 9 |
| 50 | Effect of enamel matrix derivative liquid in combination with a natural bone mineral on new bone formation in a rabbit GBR model. <i>Clinical Oral Implants Research</i> , 2019, 30, 542-549. | 4.5 | 8 |
| 51 | Occurrence, types and severity of associated injuries of paediatric patients with fractures of the frontal skull base. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2012, 40, e218-e221. | 1.7 | 7 |
| 52 | Periosteal distraction osteogenesis versus immediate periosteal elevation in a rat model: Histological and micro-CT analysis. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 620-627. | 1.7 | 7 |
| 53 | Effects of collagen membrane application and cortical bone perforation on de novo bone formation in periosteal distraction: an experimental study in a rabbit calvaria. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2017, 123, 173-182. | 0.4 | 7 |
| 54 | Anaesthetic and Perioperative Management of 14 Male New Zealand White Rabbits for Calvarial Bone Surgery. <i>Animals</i> , 2019, 9, 896. | 2.3 | 7 |

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|----|--|-----|-----------|
| 55 | Cytotoxicity and Gene Expression Changes of a Novel Homeopathic Antiseptic Oral Rinse in Comparison to Chlorhexidine in Gingival Fibroblasts. <i>Materials</i> , 2020, 13, 3190. | 2.9 | 7 |
| 56 | In vitro evaluation of an injectable biphasic calcium phosphate (BCP) carrier system combined with recombinant human bone morphogenetic protein (rhBMP)-9. <i>Bio-Medical Materials and Engineering</i> , 2017, 28, 293-304. | 0.6 | 6 |
| 57 | Temporomandibular joint dislocation: a retrospective study from a Swiss urban emergency department. <i>Open Access Emergency Medicine</i> , 2018, Volume 10, 171-176. | 1.3 | 6 |
| 58 | Clinical results of two different three-dimensional titanium plates in the treatment of condylar neck and base fractures: A retrospective study. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2020, 48, 756-764. | 1.7 | 6 |
| 59 | In vitro observation of macrophage polarization and gingival fibroblast behavior on three-dimensional xenogenic collagen matrixes. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1408-1418. | 4.0 | 6 |
| 60 | Biomechanical evaluation of different angle-stable locking plate systems for mandibular surgery. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 1589-1594. | 1.7 | 5 |
| 61 | Violence as the Most Frequent Cause of Oral and Maxillofacial Injuries among the Patients from Low- and Middle-Income Countries – A Retrospective Study at a Level I Trauma University Emergency Department in Switzerland. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4906. | 2.6 | 4 |
| 62 | In Vitro Comparison of Macrophage Polarization and Osteoblast Differentiation Potentials between Granules and Block Forms of Deproteinized Bovine Bone Mineral. <i>Materials</i> , 2020, 13, 2682. | 2.9 | 4 |
| 63 | In vitro effects of 0 to 120 Grays of irradiation on bone viability and release of growth factors. <i>BMC Oral Health</i> , 2017, 17, 4. | 2.3 | 3 |
| 64 | Osteoinductive potential of recombinant BMP-9 in bone defects of mice treated with antiresorptive agents. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2022, 51, 566-575. | 1.5 | 3 |
| 65 | Osteoclast behaviors on the surface of deproteinized bovine bone mineral and carbonate apatite substitutes in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, , . | 4.0 | 3 |
| 66 | Severity and pattern of injuries caused by the traditional Swiss team sport – Hornussen™: first retrospective study at a level I trauma centre in Switzerland. <i>BMJ Open Sport and Exercise Medicine</i> , 2016, 2, e000122. | 2.9 | 2 |
| 67 | The application of platelet rich fibrin in patients presenting with osteonecrosis of the jaw: A systematic literature review. <i>Advances in Oral and Maxillofacial Surgery</i> , 2021, 2, 100076. | 0.3 | 1 |
| 68 | Proposed Prediction Model and Nomogram for Systemic Complications in Patients Undergoing Free Flap Head and Neck Reconstruction. <i>Frontiers in Surgery</i> , 2021, 8, 771282. | 1.4 | 1 |
| 69 | Impact of Cross-Linking of Collagen Matrices on Tissue Regeneration in a Rabbit Calvarial Bone Defect. <i>Materials</i> , 2021, 14, 3740. | 2.9 | 0 |
| 70 | In Vitro Cell Viability Tests on a Composite Graft Containing Alpha Tricalcium Phosphate, Chondroitin Sulfate and Disodium Succinate. <i>Journal of Hard Tissue Biology</i> , 2014, 23, 287-294. | 0.4 | 0 |