

# Stefano Benedicenti

## List of Publications by Year in descending order

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92  
papers

2,060  
citations

218677

26  
h-index

302126

39  
g-index

94  
all docs

94  
docs citations

94  
times ranked

1878  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term survival of endodontically treated, maxillary anterior teeth restored with either tapered or parallel-sided glass-fiber posts and full-ceramic crown coverage. <i>Journal of Dentistry</i> , 2009, 37, 115-121.	4.1	86
2	Clinical and Aesthetic Outcome with Post-Extractive Implants with or without Soft Tissue Augmentation: A 2-Year Randomized Clinical Trial. <i>Clinical Implant Dentistry and Related Research</i> , 2015, 17, 983-995.	3.7	85
3	Photobiomodulation with 808-nm diode laser light promotes wound healing of human endothelial cells through increased reactive oxygen species production stimulating mitochondrial oxidative phosphorylation. <i>Lasers in Medical Science</i> , 2019, 34, 495-504.	2.1	77
4	Diode laser (808 nm) applied to oral soft tissue lesions: a retrospective study to assess histopathological diagnosis and evaluate physical damage. <i>Lasers in Medical Science</i> , 2012, 27, 383-388.	2.1	61
5	Osteonecrosis of the jaws caused by bisphosphonates: evaluation of a new therapeutic approach using the Er:YAG laser. <i>Lasers in Medical Science</i> , 2009, 24, 849-856.	2.1	59
6	Miniscrew design and bone characteristics: An experimental study of primary stability. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2012, 142, 228-234.	1.7	58
7	An 808-nm Diode Laser with a Flat-Top Handpiece Positively Photobiomodulates Mitochondria Activities. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 564-571.	2.0	57
8	Photobiomodulation Affects Key Cellular Pathways of all Life-Forms: Considerations on Old and New Laser Light Targets and the Calcium Issue. <i>Photochemistry and Photobiology</i> , 2019, 95, 455-459.	2.5	56
9	Intracellular ATP Level Increases in Lymphocytes Irradiated with Infrared Laser Light of Wavelength 904 nm. <i>Photomedicine and Laser Surgery</i> , 2008, 26, 451-453.	2.0	54
10	Evaluation of the outcome of various laser therapy applications in root canal disinfection: A systematic review. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 29, 101611.	2.6	50
11	The Effects of Photobiomodulation of 808 nm Diode Laser Therapy at Higher Fluence on the in Vitro Osteogenic Differentiation of Bone Marrow Stromal Cells. <i>Frontiers in Physiology</i> , 2018, 9, 123.	2.8	46
12	Photobiomodulation and Oxidative Stress: 980-nm Diode Laser Light Regulates Mitochondrial Activity and Reactive Oxygen Species Production. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-11.	4.0	46
13	Disinfection efficacy of photon-induced photoacoustic streaming on root canals infected with <i>Enterococcus faecalis</i> . <i>Journal of the American Dental Association</i> , 2014, 145, 843-848.	1.5	43
14	Block Allograft Technique versus Standard Guided Bone Regeneration: A Randomized Clinical Trial. <i>Clinical Implant Dentistry and Related Research</i> , 2014, 16, 655-667.	3.7	42
15	A Comparative Study Between the Effectiveness of 980 nm Photobiomodulation Delivered by Hand-Piece With Gaussian vs. Flat-Top Profiles on Osteoblasts Maturation. <i>Frontiers in Endocrinology</i> , 2019, 10, 92.	3.5	42
16	808-nm laser therapy with a flat-top handpiece photobiomodulates mitochondria activities of <i>Paramecium primaurelia</i> (Protozoa). <i>Lasers in Medical Science</i> , 2016, 31, 741-747.	2.1	36
17	Mandibular Condylar Hyperplasia: Clinical, Histopathological, and Treatment Considerations. <i>Cranio - Journal of Craniomandibular Practice</i> , 2009, 27, 24-32.	1.4	34
18	Photobiomodulation by Infrared Diode Laser: Effects on Intracellular Calcium Concentration and Nitric Oxide Production of <i>Paramecium</i> . <i>Photochemistry and Photobiology</i> , 2016, 92, 854-862.	2.5	33

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19	Understanding COVID-19 Pandemic: Molecular Mechanisms and Potential Therapeutic Strategies. An Evidence-Based Review. <i>Journal of Inflammation Research</i> , 2021, Volume 14, 13-56.	3.5	33
20	Effect of Diode Laser in the Treatment of Patients with Nonspecific Chronic Low Back Pain: A Randomized Controlled Trial. <i>Photomedicine and Laser Surgery</i> , 2014, 32, 490-494.	2.0	32
21	Photobiomodulation Therapy in Oral Mucositis and Potentially Malignant Oral Lesions: A Therapy Towards the Future. <i>Cancers</i> , 2020, 12, 1949.	3.7	32
22	Interaction between Laser Light and Osteoblasts: Photobiomodulation as a Trend in the Management of Socket Bone Preservation—A Review. <i>Biology</i> , 2020, 9, 409.	2.8	30
23	Experimental and Clinical Applications of Red and Near-Infrared Photobiomodulation on Endothelial Dysfunction: A Review. <i>Biomedicines</i> , 2021, 9, 274.	3.2	30
24	Head and Neck Hemangiomas in Pediatric Patients Treated with Endolesional 980-nm Diode Laser. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 553-559.	2.0	29
25	Efficacy of Photon-induced Photoacoustic Streaming in the Reduction of <i>Enterococcus faecalis</i> within the Root Canal: Different Settings and Different Sodium Hypochlorite Concentrations. <i>Journal of Endodontics</i> , 2017, 43, 1730-1735.	3.1	29
26	1064 nm Nd:YAG laser light affects transmembrane mitochondria respiratory chain complexes. <i>Journal of Biophotonics</i> , 2019, 12, e201900101.	2.3	29
27	Treatment of Hemangioma of the Head and Neck with Diode Laser and Forced Dehydration with Induced Photocoagulation. <i>Photomedicine and Laser Surgery</i> , 2008, 26, 113-118.	2.0	28
28	Immediate versus delayed loading: comparison of primary stability loss after miniscrew placement in orthodontic patients—a single-centre blinded randomized clinical trial. <i>European Journal of Orthodontics</i> , 2016, 38, 652-659.	2.4	27
29	Effects of photobiomodulation on bone defects grafted with bone substitutes: A systematic review of in vivo animal studies. <i>Journal of Biophotonics</i> , 2021, 14, e202000267.	2.3	27
30	Mitochondrial Bioenergetic, Photobiomodulation and Trigeminal Branches Nerve Damage, What's the Connection? A Review. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4347.	4.1	26
31	Internal Bone Temperature Change During Guided Surgery Preparations for Dental Implants: An In Vitro Study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013, 28, 1464-1469.	1.4	25
32	<i>Paramecium</i> : A Promising Non-Animal Bioassay to Study the Effect of 808-nm Infrared Diode Laser Photobiomodulation. <i>Photomedicine and Laser Surgery</i> , 2015, 33, 35-40.	2.0	25
33	Apicoectomies with the Erbium Laser: A Complementary Technique for Retrograde Endodontic Treatment. <i>Photomedicine and Laser Surgery</i> , 2011, 29, 845-849.	2.0	24
34	Role of Photobiomodulation Therapy in Modulating Oxidative Stress in Temporomandibular Disorders. A Systematic Review and Meta-Analysis of Human Randomised Controlled Trials. <i>Antioxidants</i> , 2021, 10, 1028.	5.1	24
35	Use of the erbium, chromium:yttrium-scandium-gallium-garnet laser on human enamel tissues. Influence of the air-water spray on the laser-tissue interaction: scanning electron microscope evaluations. <i>Lasers in Medical Science</i> , 2010, 25, 793-797.	2.1	23
36	Zygomatic Implant Placement With Flapless Computer-Guided Surgery: A Proposed Clinical Protocol. <i>Journal of Oral and Maxillofacial Surgery</i> , 2011, 69, 2979-2989.	1.2	23

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37	Effect of 808nm Diode Laser on Swimming Behavior, Food Vacuole Formation and Endogenous ATP Production of <i>Paramecium primaurelia</i> (Protozoa). <i>Photochemistry and Photobiology</i> , 2015, 91, 1150-1155.	2.5	22
38	Effect of Low-Level Laser Therapy on Bone Regeneration During Osseointegration and Bone Graft. <i>Photomedicine and Laser Surgery</i> , 2017, 35, 649-658.	2.0	21
39	Phototherapy as a Rational Antioxidant Treatment Modality in COVID-19 Management; New Concept and Strategic Approach: Critical Review. <i>Antioxidants</i> , 2020, 9, 875.	5.1	21
40	The Protozoan, <i>Paramecium primaurelia</i> , as a Non-sentient Model to Test Laser Light Irradiation: The Effects of an 808nm Infrared Laser Diode on Cellular Respiration. <i>ATLA Alternatives To Laboratory Animals</i> , 2015, 43, 155-162.	1.0	20
41	Improving Consistency of Photobiomodulation Therapy: A Novel Flat-Top Beam Hand-Piece versus Standard Gaussian Probes on Mitochondrial Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7788.	4.1	20
42	Near-infrared laser photons induce glutamate release from cerebrocortical nerve terminals. <i>Journal of Biophotonics</i> , 2018, 11, e201800102.	2.3	19
43	The Effect of Antimicrobial Photodynamic Therapy Using Chlorophyllin-Phycocyanin Mixture on <i>Enterococcus faecalis</i> : The Influence of Different Light Sources. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4290.	2.5	19
44	A Narrative Review on Oral and Periodontal Bacteria Microbiota Photobiomodulation, through Visible and Near-Infrared Light: From the Origins to Modern Therapies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1372.	4.1	19
45	Effectiveness of Antimicrobial Photodynamic Therapy in the Treatment of Periodontitis: A Systematic Review and Meta-Analysis of In Vivo Human Randomized Controlled Clinical Trials. <i>Pharmaceutics</i> , 2021, 13, 836.	4.5	18
46	Photobiomodulation by Near-Infrared 980-nm Wavelengths Regulates Pre-Osteoblast Proliferation and Viability through the PI3K/Akt/Bcl-2 Pathway. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7586.	4.1	18
47	Sialolithiasis of the Submandibular Salivary Gland Treated with the 810- to 830-nm Diode Laser. <i>Photomedicine and Laser Surgery</i> , 2008, 26, 517-521.	2.0	17
48	Orthodontic miniscrews: an experimental campaign on primary stability and bone properties. <i>European Journal of Orthodontics</i> , 2015, 37, 531-538.	2.4	17
49	Nonsurgical Periodontal Treatment by Erbium:YAG Laser Promotes Regression of Gingival Overgrowth in Patient Taking Cyclosporine A: A Case Report. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 53-56.	1.4	17
50	Accuracy of a flapless protocol for computer-guided zygomatic implant placement in human cadavers: expectations and reality. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2016, 12, 102-108.	2.3	16
51	Postoperative Quality of Life Following Conventional Endodontic Intracanal Irrigation Compared with Laser-Activated Irrigation: A Randomized Clinical Study. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 248-253.	1.4	16
52	Role of Photobiomodulation Therapy in Neurological Primary Burning Mouth Syndrome. A Systematic Review and Meta-Analysis of Human Randomised Controlled Clinical Trials. <i>Pharmaceutics</i> , 2021, 13, 1838.	4.5	16
53	808-nm Photobiomodulation Affects the Viability of a Head and Neck Squamous Carcinoma Cellular Model, Acting on Energy Metabolism and Oxidative Stress Production. <i>Biomedicines</i> , 2021, 9, 1717.	3.2	16
54	The effect of sublethal photodynamic therapy on the expression of Enterococcal surface protein (esp) encoding gene in <i>Enterococcus faecalis</i> : Quantitative real-time PCR assessment. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 24, 311-317.	2.6	15

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55	The earthworm <i>Dendrobaena veneta</i> (Annelida): A new experimental-organism for photobiomodulation and wound healing. <i>European Journal of Histochemistry</i> , 2018, 62, 2867.	1.5	15
56	The 808-nm and 980-nm infrared laser irradiation affects spore germination and stored calcium homeostasis: A comparative study using delivery hand-pieces with standard (Gaussian) or flat-top profile. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 199, 111627.	3.8	14
57	Clinical and Surgical Management of Odontoma. <i>Photomedicine and Laser Surgery</i> , 2014, 32, 47-53.	2.0	13
58	Outpatient erbium:YAG (2940-nm) laser treatment for snoring: a prospective study on 40 patients. <i>Lasers in Medical Science</i> , 2018, 33, 399-406.	2.1	13
59	Outpatient Oral Neuropathic Pain Management with Photobiomodulation Therapy: A Prospective Analgesic Pharmacotherapy-Paralleled Feasibility Trial. <i>Antioxidants</i> , 2022, 11, 533.	5.1	13
60	Impact of Adjunctive Diode Laser Application to Non-Surgical Periodontal Therapy on Clinical, Microbiological and Immunological Outcomes in Management of Chronic Periodontitis: A Systematic Review of Human Randomized Controlled Clinical Trials. <i>Journal of Inflammation Research</i> , 2021, Volume 14, 2515-2545.	3.5	12
61	The photobiomodulation effect of higher-fluence 808-nm laser therapy with a flat-top handpiece on the wound healing of the earthworm <i>Dendrobaena veneta</i> : a brief report. <i>Lasers in Medical Science</i> , 2018, 33, 221-225.	2.1	11
62	Effectiveness of dual-wavelength (Diodes 980-nm and 635-nm) laser approach as a non-surgical modality in the management of periodontally diseased root surface: a pilot study. <i>Biotechnology and Biotechnological Equipment</i> , 2018, 32, 1575-1582.	1.3	11
63	Effectiveness of Photobiomodulation as an Adjunct to Nonsurgical Periodontal Therapy in the Management of Periodontitis: A Systematic Review of <i>in vivo</i> Human Studies. <i>Photochemistry and Photobiology</i> , 2021, 97, 223-242.	2.5	11
64	Steering the multipotent mesenchymal cells towards an anti-inflammatory and osteogenic bias via photobiomodulation therapy: How to kill two birds with one stone. <i>Journal of Tissue Engineering</i> , 2022, 13, 204173142211101.	5.5	11
65	Surgical Combined Approach for Alveolar Ridge Augmentation with Titanium Mesh and rhPDGF-BB: A 3-Year Clinical Case Series. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2015, 35, 231-237.	1.0	10
66	808-Nm Near-Infrared Laser Photobiomodulation versus Switched-Off Laser Placebo in Major Aphthae Management: A Randomized Double-Blind Controlled Trial. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4717.	2.5	10
67	The Effect of Photobiomodulation on the Sea Urchin <i>Paracentrotus lividus</i> (Echinodermata) Using Higher-Fluence on Fertilization, Embryogenesis, and Larval Development: An <i>In Vitro</i> Study. <i>Photomedicine and Laser Surgery</i> , 2017, 35, 127-135.	2.0	9
68	Clinical Outcomes of Endodontic Treatments and Restorations with and without Posts Up to 18 Years. <i>Journal of Clinical Medicine</i> , 2021, 10, 908.	2.4	9
69	Short-pulse neodymium:yttrium-aluminium garnet (Nd:YAG 1064 nm) laser irradiation photobiomodulates mitochondria activity and cellular multiplication of <i>Paramecium primaurelia</i> (Protozoa). <i>European Journal of Protistology</i> , 2017, 61, 294-304.	1.5	8
70	The effects of 808-nm near-infrared laser light irradiation on actin cytoskeleton reorganization in bone marrow mesenchymal stem cells. <i>Cell and Tissue Research</i> , 2021, 383, 1003-1016.	2.9	8
71	Simultaneous photoablative and photodynamic 810-nm diode laser therapy as an adjunct to non-surgical periodontal treatment: an in-vitro study. <i>Minerva Stomatologica: A Journal on Dentistry and Maxillofacial Surgery</i> , 2020, 69, 1-7.	1.3	8
72	GuttaCore Pink, Thermafil and Warm Vertically compacted gutta-percha retreatment: Time required and quantitative evaluation by using ProTaper files. <i>Dental Materials Journal</i> , 2020, 39, 229-235.	1.8	7

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73	Electromagnetic Dosimetry for Isolated Mitochondria Exposed to Near-Infrared Continuous-Wave Illumination in Photobiomodulation Experiments. <i>Bioelectromagnetics</i> , 2021, 42, 384-397.	1.6	7
74	Efficacy of near infrared dental lasers on dentinal hypersensitivity: a meta-analysis of randomized controlled clinical trials. <i>Lasers in Medical Science</i> , 2022, 37, 733-744.	2.1	7
75	Torque Loss After Miniscrew Placement: An In-Vitro Study Followed by a Clinical Trial. <i>Open Dentistry Journal</i> , 2016, 10, 251-260.	0.5	7
76	Sectional porcelain veneers for a maxillary midline diastema closure: a case report. <i>Quintessence International</i> , 2013, 44, 201-6.	0.4	7
77	Efficacy of the Lateral Advanced Flap in Root-coverage Procedures for Mandibular Central Incisors: A 5-Year Clinical Study. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2015, 35, e9-e13.	1.0	6
78	Utilization of Carbon Dioxide Laser Therapy in the Management of Denture-Induced Hyperplasia and Vestibuloplasty in a Medically Compromised Patient: A Case Report. <i>International Journal of Prosthodontics</i> , 2019, 32, 211-213.	1.7	6
79	Flapless Surgical Approach to Extract Impacted Inferior Third Molars: A Retrospective Clinical Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 593.	2.4	4
80	A new bone surgical laser technique technical aspects and applications in dentistry. <i>Frontiers in Bioscience - Elite</i> , 2011, E3, 463-468.	1.8	3
81	In vitro determination of the mechanical and chemical properties of a fibre orthodontic retainer. <i>European Journal of Orthodontics</i> , 2012, 34, 693-697.	2.4	3
82	Tensile test and interface retention forces between wires and composites in lingual fixed retainers. <i>International Orthodontics</i> , 2015, 13, 210-220.	1.9	3
83	Hydro air abrasion on dental glass-ceramics: A direct 3D analysis by stylus profilometry. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 36-42.	3.1	3
84	Evaluating the Marginal Integrity and Clinical Outcome of Posterior Zirconia Inlay-Retained Fixed Dental Prostheses: A Randomized Clinical Trial. <i>International Journal of Prosthodontics</i> , 2021, 34, 324-333.	1.7	3
85	Is antimicrobial photodynamic therapy an effective treatment modality for aggressive periodontitis? A systematic review of in vivo human randomized controlled clinical trials. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 34, 102314.	2.6	3
86	A Novel Concept of Combined High-Level-Laser Treatment and Transcutaneous Photobiomodulation Therapy Utilisation in Orthodontic Periodontal Interface Management. <i>Sensors</i> , 2022, 22, 2263.	3.8	3
87	Can Photobiomodulation Support the Management of Temporomandibular Joint Pain? Molecular Mechanisms and a Systematic Review of Human Clinical Trials. <i>Photonics</i> , 2022, 9, 420.	2.0	3
88	Evaluation of primary stability of single implants placed in fresh extraction sockets: a clinical trial. <i>Biotechnology and Biotechnological Equipment</i> , 2016, 30, 354-359.	1.3	2
89	Effect of photobiomodulation on osseointegration and bone healing: A review. <i>Journal of Laser Applications</i> , 2015, 27, 012003.	1.7	1
90	Snoring and Sleep-Related Symptoms: A Novel Non-Invasive 808 nm Wavelength Diode Laser Non-Ablative Outpatient Treatment. A Prospective Pilot-Study on 45 Patients. <i>Photonics</i> , 2021, 8, 69.	2.0	1

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91	Utilization of 810 nm Diode Laser Treatment in Periodontitis as an Alternative to Surgical Debridement Approach. <i>Photochemistry and Photobiology</i> , 2021, 97, 566-573.	2.5	1
92	Microtensile strength of resin cement bond to indirect composite treated by different output powers of Er:YAG laser. <i>Microscopy Research and Technique</i> , 2016, 79, 328-333.	2.2	0