Stefano Benedicenti

List of Publications by Year
in descending order

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92	2,060	218677	302126
papers	citations	26	39
		h-index	g-index

94	94	94	1878
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficacy of near infrared dental lasers on dentinal hypersensitivity: a meta-analysis of randomized controlled clinical trials. Lasers in Medical Science, 2022, 37, 733-744.	2.1	7
2	A Narrative Review on Oral and Periodontal Bacteria Microbiota Photobiomodulation, through Visible and Near-Infrared Light: From the Origins to Modern Therapies. International Journal of Molecular Sciences, 2022, 23, 1372.	4.1	19
3	A Novel Concept of Combined High-Level-Laser Treatment and Transcutaneous Photobiomodulation Therapy Utilisation in Orthodontic Periodontal Interface Management. Sensors, 2022, 22, 2263.	3.8	3
4	Outpatient Oral Neuropathic Pain Management with Photobiomodulation Therapy: A Prospective Analgesic Pharmacotherapy-Paralleled Feasibility Trial. Antioxidants, 2022, 11, 533.	5.1	13
5	Can Photobiomodulation Support the Management of Temporomandibular Joint Pain? Molecular Mechanisms and a Systematic Review of Human Clinical Trials. Photonics, 2022, 9, 420.	2.0	3
6	Steering the multipotent mesenchymal cells towards an anti-inflammatory and osteogenic bias via photobiomodulation therapy: How to kill two birds with one stone. Journal of Tissue Engineering, 2022, 13, 204173142211101.	5.5	11
7	The effects of 808-nm near-infrared laser light irradiation on actin cytoskeleton reorganization in bone marrow mesenchymal stem cells. Cell and Tissue Research, 2021, 383, 1003-1016.	2.9	8
8	Effectiveness of Photobiomodulation as an Adjunct to Nonsurgical Periodontal Therapy in the Management of Periodontitisâ€•A Systematic Review of in vivo Human Studies. Photochemistry and Photobiology, 2021, 97, 223-242.	2.5	11
9	Effects of photobiomodulation on bone defects grafted with bone substitutes: A systematic review of in vivo animal studies. Journal of Biophotonics, 2021, 14, e202000267.	2.3	27
10	Understanding COVID-19 Pandemic: Molecular Mechanisms and Potential Therapeutic Strategies. An Evidence-Based Review. Journal of Inflammation Research, 2021, Volume 14, 13-56.	3.5	33
11	Clinical Outcomes of Endodontic Treatments and Restorations with and without Posts Up to 18 Years. Journal of Clinical Medicine, 2021, 10, 908.	2.4	9
12	Flapless Surgical Approach to Extract Impacted Inferior Third Molars: A Retrospective Clinical Study. Journal of Clinical Medicine, 2021, 10, 593.	2.4	4
13	Experimental and Clinical Applications of Red and Near-Infrared Photobiomodulation on Endothelial Dysfunction: A Review. Biomedicines, 2021, 9, 274.	3.2	30
14	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. Photonics, 2021, 8, 69.	2.0	1
15	Utilization of 810 nm Diode Laser Treatment in Periodontitis as an Alternative to Surgical Debridement Approach. Photochemistry and Photobiology, 2021, 97, 566-573.	2.5	1
16	Photobiomodulation and Oxidative Stress: 980â€‰nm Diode Laser Light Regulates Mitochondrial Activity and Reactive Oxygen Species Production. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-11.	4.0	46
17	Mitochondrial Bioenergetic, Photobiomodulation and Trigeminal Branches Nerve Damage, Whatâ€™s the Connection? A Review. International Journal of Molecular Sciences, 2021, 22, 4347.	4.1	26
18	Electromagnetic Dosimetry for Isolated Mitochondria Exposed to Nearâ€Infrared Continuousâ€Wave Illumination in Photobiomodulation Experiments. Bioelectromagnetics, 2021, 42, 384-397.	1.6	7

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19	Evaluating the Marginal Integrity and Clinical Outcome of Posterior Zirconia Inlay-Retained Fixed Dental Prostheses: A Randomized Clinical Trial. International Journal of Prosthodontics, 2021, 34, 324-333.	1.7	3
20	808-Nm Near-Infrared Laser Photobiomodulation versus Switched-Off Laser Placebo in Major Aphthae Management: A Randomized Double-Blind Controlled Trial. Applied Sciences (Switzerland), 2021, 11, 4717.	2.5	10
21	Effectiveness of Antimicrobial Photodynamic Therapy in the Treatment of Periodontitis: A Systematic Review and Meta-Analysis of In Vivo Human Randomized Controlled Clinical Trials. Pharmaceutics, 2021, 13, 836.	4.5	18
22	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. Journal of Inflammation Research, 2021, Volume 14, 2515-2545.	3.5	12
23	Is antimicrobial photodynamic therapy an effective treatment modality for aggressive periodontitis? A systematic review of in vivo human randomized controlled clinical trials. Photodiagnosis and Photodynamic Therapy, 2021, 34, 102314.	2.6	3
24	Role of Photobiomodulation Therapy in Modulating Oxidative Stress in Temporomandibular Disorders. A Systematic Review and Meta-Analysis of Human Randomised Controlled Trials. Antioxidants, 2021, 10, 1028.	5.1	24
25	Improving Consistency of Photobiomodulation Therapy: A Novel Flat-Top Beam Hand-Piece versus Standard Gaussian Probes on Mitochondrial Activity. International Journal of Molecular Sciences, 2021, 22, 7788.	4.1	20
26	Photobiomodulation by Near-Infrared 980-nm Wavelengths Regulates Pre-Osteoblast Proliferation and Viability through the PI3K/Akt/Bcl-2 Pathway. International Journal of Molecular Sciences, 2021, 22, 7586.	4.1	18
27	Role of Photobiomodulation Therapy in Neurological Primary Burning Mouth Syndrome. A Systematic Review and Meta-Analysis of Human Randomised Controlled Clinical Trials. Pharmaceutics, 2021, 13, 1838.	4.5	16
28	808-nm Photobiomodulation Affects the Viability of a Head and Neck Squamous Carcinoma Cellular Model, Acting on Energy Metabolism and Oxidative Stress Production. Biomedicines, 2021, 9, 1717.	3.2	16
29	GuttaCore Pink, Thermafil and Warm Vertically compacted gutta-percha retreatment: Time required and quantitative evaluation by using ProTaper files. Dental Materials Journal, 2020, 39, 229-235.	1.8	7
30	Evaluation of the outcome of various laser therapy applications in root canal disinfection: A systematic review. Photodiagnosis and Photodynamic Therapy, 2020, 29, 101611.	2.6	50
31	Interaction between Laser Light and Osteoblasts: Photobiomodulation as a Trend in the Management of Socket Bone Preservationâ€"A Review. Biology, 2020, 9, 409.	2.8	30
32	Photobiomodulation Therapy in Oral Mucositis and Potentially Malignant Oral Lesions: A Therapy Towards the Future. Cancers, 2020, 12, 1949.	3.7	32
33	Phototherapy as a Rational Antioxidant Treatment Modality in COVID-19 Management; New Concept and Strategic Approach: Critical Review. Antioxidants, 2020, 9, 875.	5.1	21
34	The Effect of Antimicrobial Photodynamic Therapy Using Chlorophyllinâ€"Phycocyanin Mixture on Enterococcus faecalis: The Influence of Different Light Sources. Applied Sciences (Switzerland), 2020, 10, 4290.	2.5	19
35	Simultaneous photoablative and photodynamic 810-nm diode laser therapy as an adjunct to non-surgical periodontal treatment: an in-vitro study. Minerva Stomatologica: A Journal on Dentirstry and Maxillofacial Surgery, 2020, 69, 1-7.	1.3	8
36	Photobiomodulation with 808-nm diode laser light promotes wound healing of human endothelial cells through increased reactive oxygen species production stimulating mitochondrial oxidative phosphorylation. Lasers in Medical Science, 2019, 34, 495-504.	2.1	77

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37	The 808â€¯nm and 980â€¯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. Journal of Photochemistry and Photobiology B: Biology, 2019, 199, 111627.	3.8	14
38	Postoperative Quality of Life Following Conventional Endodontic Intracanal Irrigation Compared with Laser-Activated Irrigation: A Randomized Clinical Study. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 248-253.	1.4	16
39	1064 nm Nd:YAG laser light affects transmembrane mitochondria respiratory chain complexes. Journal of Biophotonics, 2019, 12, e201900101.	2.3	29
40	A Comparative Study Between the Effectiveness of 980 nm Photobiomodulation Delivered by Hand-Piece With Gaussian vs. Flat-Top Profiles on Osteoblasts Maturation. Frontiers in Endocrinology, 2019, 10, 92.	3.5	42
41	Utilization of Carbon Dioxide Laser Therapy in the Management of Denture-Induced Hyperplasia and Vestibuloplasty in a Medically Compromised Patient: A Case Report. International Journal of Prosthodontics, 2019, 32, 211-213.	1.7	6
42	Hydro air abrasion on dental glass-ceramics: A direct 3D analysis by stylus profilometry. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 93, 36-42.	3.1	3
43	Photobiomodulation Affects Key Cellular Pathways of all Lifeâ€Forms: Considerations on Old and New Laser Light Targets and the Calcium Issue. Photochemistry and Photobiology, 2019, 95, 455-459.	2.5	56
44	Nonsurgical Periodontal Treatment by Erbium:YAG Laser Promotes Regression of Gingival Overgrowth in Patient Taking Cyclosporine A: A Case Report. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 53-56.	1.4	17
45	Outpatient erbium:YAG (2940Ânm) laser treatment for snoring: a prospective study on 40 patients. Lasers in Medical Science, 2018, 33, 399-406.	2.1	13
46	The photobiomodulation effect of higher-fluence 808-nm laser therapy with a flat-top handpiece on the wound healing of the earthworm Dendrobaena veneta: a brief report. Lasers in Medical Science, 2018, 33, 221-225.	2.1	11
47	Effectiveness of dual-wavelength (Diodes 980â€‰Nm and 635â€‰Nm) laser approach as a non-surgical modality in the management of periodontally diseased root surface: a pilot study. Biotechnology and Biotechnological Equipment, 2018, 32, 1575-1582.	1.3	11
48	The effect of sublethal photodynamic therapy on the expression of Enterococcal surface protein (esp) encoding gene in Enterococcus faecalis: Quantitative real-time PCR assessment. Photodiagnosis and Photodynamic Therapy, 2018, 24, 311-317.	2.6	15
49	Nearâ€infrared laser photons induce glutamate release from cerebrocortical nerve terminals. Journal of Biophotonics, 2018, 11, e201800102.	2.3	19
50	The earthworm Dendrobaena veneta (Annelida): A new experimental-organism for photobiomodulation and wound healing. European Journal of Histochemistry, 2018, 62, 2867.	1.5	15
51	The Effects of Photobiomodulation of 808 nm Diode Laser Therapy at Higher Fluence on the in Vitro Osteogenic Differentiation of Bone Marrow Stromal Cells. Frontiers in Physiology, 2018, 9, 123.	2.8	46
52	The Effect of Photobiomodulation on the Sea UrchinParacentrotus lividus(Echinodermata) Using Higher-Fluence on Fertilization, Embryogenesis, and Larval Development: AnIn VitroStudy. Photomedicine and Laser Surgery, 2017, 35, 127-135.	2.0	9
53	Short-pulse neodymium:yttriumâ€“aluminium garnet (Nd:YAG 1064 nm) laser irradiation photobiomodulates mitochondria activity and cellular multiplication of Paramecium primaurelia (Protozoa). European Journal of Protistology, 2017, 61, 294-304.	1.5	8
54	Effect of Low-Level Laser Therapy on Bone Regeneration During Osseointegration and Bone Graft. Photomedicine and Laser Surgery, 2017, 35, 649-658.	2.0	21

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55	Efficacy of Photon-induced Photoacoustic Streaming in the Reduction of Enterococcus faecalis within the Root Canal: Different Settings and Different Sodium Hypochlorite Concentrations. Journal of Endodontics, 2017, 43, 1730-1735.	3.1	29
56	Microtensile strength of resin cement bond to indirect composite treated by different output powers of Er:YAG laser. Microscopy Research and Technique, 2016, 79, 328-333.	2.2	0
57	808-nm laser therapy with a flat-top handpiece photobiomodulates mitochondria activities of Paramecium primaurelia (Protozoa). Lasers in Medical Science, 2016, 31, 741-747.	2.1	36
58	Photobiomodulation by Infrared Diode Laser: Effects on Intracellular Calcium Concentration and Nitric Oxide Production of Paramecium. Photochemistry and Photobiology, 2016, 92, 854-862.	2.5	33
59	Accuracy of a flapless protocol for computerâ€guided zygomatic implant placement in human cadavers: expectations and reality. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 102-108.	2.3	16
60	An 808-nm Diode Laser with a Flat-Top Handpiece Positively Photobiomodulates Mitochondria Activities. Photomedicine and Laser Surgery, 2016, 34, 564-571.	2.0	57
61	Evaluation of primary stability of single implants placed in fresh extraction sockets: a clinical trial. Biotechnology and Biotechnological Equipment, 2016, 30, 354-359.	1.3	2
62	Immediate versus delayed loading: comparison of primary stability loss after miniscrew placement in orthodontic patientsâ€"a single-centre blinded randomized clinical trial. European Journal of Orthodontics, 2016, 38, 652-659.	2.4	27
63	Torque Loss After Miniscrew Placement: An In-Vitro Study Followed by a Clinical Trial. Open Dentistry Journal, 2016, 10, 251-260.	0.5	7
64	Efficacy of the Lateral Advanced Flap in Root-coverage Procedures for Mandibular Central Incisors: A 5-Year Clinical Study. International Journal of Periodontics and Restorative Dentistry, 2015, 35, e9-e13.	1.0	6
65	Surgical Combined Approach for Alveolar Ridge Augmentation with Titanium Mesh and rhPDGF-BB: A 3-Year Clinical Case Series. International Journal of Periodontics and Restorative Dentistry, 2015, 35, 231-237.	1.0	10
66	Effect of 808Ânm Diode Laser on Swimming Behavior, Food Vacuole Formation and Endogenous <scp>ATP</scp> Production of Paramecium primaurelia (Protozoa). Photochemistry and Photobiology, 2015, 91, 1150-1155.	2.5	22
67	The Protozoan, Paramecium primaurelia, as a Non-sentient Model to Test Laser Light Irradiation: The Effects of an 808nm Infrared Laser Diode on Cellular Respiration. ATLA Alternatives To Laboratory Animals, 2015, 43, 155-162.	1.0	20
68	Tensile test and interface retention forces between wires and composites in lingual fixed retainers. International Orthodontics, 2015, 13, 210-220.	1.9	3
69	Orthodontic miniscrews: an experimental campaign on primary stability and bone properties. European Journal of Orthodontics, 2015, 37, 531-538.	2.4	17
70	Paramecium:A Promising Non-Animal Bioassay to Study the Effect of 808â€‰nm Infrared Diode Laser Photobiomodulation. Photomedicine and Laser Surgery, 2015, 33, 35-40.	2.0	25
71	Effect of photobiomodulation on osseointegration and boneâ€"A review. Journal of Laser Applications, 2015, 27, 012003.	1.7	1
72	Clinical and Aesthetic Outcome with Postâ€Extractive Implants with or without Soft Tissue Augmentation: A 2â€Year Randomized Clinical Trial. Clinical Implant Dentistry and Related Research, 2015, 17, 983-995.	3.7	85

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73	Disinfection efficacy of photon-induced photoacoustic streaming on root canals infected with Enterococcus faecalis. Journal of the American Dental Association, 2014, 145, 843-848.	1.5	43
74	Clinical and Surgical Management of Odontoma. Photomedicine and Laser Surgery, 2014, 32, 47-53.	2.0	13
75	Block Allograft Technique versus Standard Guided Bone Regeneration: A Randomized Clinical Trial. Clinical Implant Dentistry and Related Research, 2014, 16, 655-667.	3.7	42
76	Effect of Diode Laser in the Treatment of Patients with Nonspecific Chronic Low Back Pain: A Randomized Controlled Trial. Photomedicine and Laser Surgery, 2014, 32, 490-494.	2.0	32
77	Internal Bone Temperature Change During Guided Surgery Preparations for Dental Implants: An In Vitro Study. International Journal of Oral and Maxillofacial Implants, 2013, 28, 1464-1469.	1.4	25
78	Sectional porcelain veneers for a maxillary midline diastema closure: a case report. Quintessence International, 2013, 44, 201-6.	0.4	7
79	In vitro determination of the mechanical and chemical properties of a fibre orthodontic retainer. European Journal of Orthodontics, 2012, 34, 693-697.	2.4	3
80	Miniscrew design and bone characteristics: An experimental study of primary stability. American Journal of Orthodontics and Dentofacial Orthopedics, 2012, 142, 228-234.	1.7	58
81	Diode laser (808 nm) applied to oral soft tissue lesions: a retrospective study to assess histopathological diagnosis and evaluate physical damage. Lasers in Medical Science, 2012, 27, 383-388.	2.1	61
82	A new bone surgical laser technique technical aspects and applications in dentistry. Frontiers in Bioscience - Elite, 2011, E3, 463-468.	1.8	3
83	Zygomatic Implant Placement With Flapless Computer-Guided Surgery: A Proposed Clinical Protocol. Journal of Oral and Maxillofacial Surgery, 2011, 69, 2979-2989.	1.2	23
84	Apicoectomies with the Erbium Laser: A Complementary Technique for Retrograde Endodontic Treatment. Photomedicine and Laser Surgery, 2011, 29, 845-849.	2.0	24
85	Use of the erbium, chromium:yttriumâ€“scandiumâ€“galliumâ€“garnet laser on human enamel tissues. Influence of the airâ€“water spray on the laserâ€“tissue interaction: scanning electron microscope evaluations. Lasers in Medical Science, 2010, 25, 793-797.	2.1	23
86	Head and Neck Hemangiomas in Pediatric Patients Treated with Endolesional 980-nm Diode Laser. Photomedicine and Laser Surgery, 2009, 27, 553-559.	2.0	29
87	Mandibular Condylar Hyperplasia: Clinical, Histopathological, and Treatment Considerations. Cranio - Journal of Craniomandibular Practice, 2009, 27, 24-32.	1.4	34
88	Osteonecrosis of the jaws caused by bisphosphonates: evaluation of a new therapeutic approach using the Er:YAG laser. Lasers in Medical Science, 2009, 24, 849-856.	2.1	59
89	Long-term survival of endodontically treated, maxillary anterior teeth restored with either tapered or parallel-sided glass-fiber posts and full-ceramic crown coverage. Journal of Dentistry, 2009, 37, 115-121.	4.1	86
90	Sialolithiasis of the Submandibular Salivary Gland Treated with the 810- to 830-nm Diode Laser. Photomedicine and Laser Surgery, 2008, 26, 517-521.	2.0	17

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91	Treatment of Hemangioma of the Head and Neck with Diode Laser and Forced Dehydration with Induced Photocoagulation. Photomedicine and Laser Surgery, 2008, 26, 113-118.	2.0	28
92	Intracellular ATP Level Increases in Lymphocytes Irradiated with Infrared Laser Light of Wavelength 904 nm. Photomedicine and Laser Surgery, 2008, 26, 451-453.	2.0	54