Praveen R Arany

List of Publications by Year
in descending order

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119 papers	6,634 citations	147566 31 h-index	66788 78 g-index
121 all docs	121 docs citations	121 times ranked	9521 citing authors

#	Article	IF	Citations
1	Impact of photobiomodulation in a patientâ€derived xenograft model of oral squamous cell carcinoma. Oral Diseases, 2023, 29, 547-556.	1.5	7
2	Effect of photobiomodulation therapy on inflammatory cytokines in healing dynamics of diabetic wounds: a systematic review of preclinical studies. Archives of Physiology and Biochemistry, 2023, 129, 663-670.	1.0	10
3	Effect of Photobiomodulation Therapy on Oxidative Stress Markers in Healing Dynamics of Diabetic Neuropathic Wounds in Wistar Rats. Cell Biochemistry and Biophysics, 2022, 80, 151-160.	0.9	7
4	Enhancing osteoblast differentiation through small molecule-incorporated engineered nanofibrous scaffold. Clinical Oral Investigations, 2022, 26, 2607-2618.	1.4	3
5	Precision-engineered niche for directed differentiation of MSCs to lineage-restricted mineralized tissues. Journal of Tissue Engineering, 2022, 13, 204173142110739.	2.3	12
6	Photobiomodulation-Activated Latent Transforming Growth Factor-Î²1: A Critical Clinical Therapeutic Pathway and an Endogenous Optogenetic Tool for Discovery. Photobiomodulation, Photomedicine, and Laser Surgery, 2022, 40, 136-147.	0.7	11
7	Thermodynamic basis for comparative photobiomodulation dosing with multiple wavelengths to direct odontoblast differentiation. Journal of Biophotonics, 2022, 15, .	1.1	11
8	Photobiomodulation treatments drive osteogenic versus adipocytic fate of bone marrow mesenchymal stem cells reversing the effects of hyperglycemia in diabetes. Lasers in Medical Science, 2022, , 1.	1.0	0
9	The Efficacy of Photobiomodulation Therapy in Improving Tissue Resilience and Healing of Radiation Skin Damage. Photonics, 2022, 9, 10.	0.9	9
10	Redox signaling induces laminin receptor ribosomal protein-SA expression to improve cell adhesion following radiofrequency glow discharge treatments. Scientific Reports, 2022, 12, 7742.	1.6	1
11	MASCC/ISOO clinical practice guidelines for the management of mucositis: sub-analysis of current interventions for the management of oral mucositis in pediatric cancer patients. Supportive Care in Cancer, 2021, 29, 3539-3562.	1.0	33
12	Salivary alpha-1-antitrypsin and macrophage migration inhibitory factor may be potential prognostic biomarkers for oncologic treatmentâ€“induced severe oral mucositis. Supportive Care in Cancer, 2021, 29, 2939-2946.	1.0	3
13	Recovering the osteoblastic differentiation potential of mesenchymal stem cells derived from diabetic rats by photobiomodulation therapy. Journal of Biophotonics, 2021, 14, e202000393.	1.1	7
14	At-Home Photobiomodulation Treatments for Supportive Cancer Care During the COVID-19 Pandemic. Photobiomodulation, Photomedicine, and Laser Surgery, 2021, 39, 81-82.	0.7	5
15	Light distribution of 635Ânm LED for PBM treatments in the maxillofacial region. Oral and Maxillofacial Surgery Cases, 2021, 7, 100208.	0.1	3
16	Photoimmunotherapy: a confluence of multiple biophotonics treatments. , 2021, , .		0
17	Welcome and Introduction to Conference 11628B. , 2021, , .		0
18	Tantalum-containing meso-porous glass fibres for hemostatic applications. Materials Today Communications, 2021, 27, 102260.	0.9	4

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19	Accelerated burn wound healing with photobiomodulation therapy involves activation of endogenous latent TGF-Î²1. Scientific Reports, 2021, 11, 13371.	1.6	31
20	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.	1.8	20
21	Additive 3-dimensional printing as a novel tool for pre- and postsurgical evaluation and patient education. Journal of the American Dental Association, 2021, 152, 567-575.e5.	0.7	1
22	Safety and efficacy of citric acid-upconverting nanoparticles for multimodal biological imaging in BALB/c mice. Photodiagnosis and Photodynamic Therapy, 2021, 36, 102485.	1.3	1
23	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.	1.4	16
24	Virtual Planning and Rapid 3D Prototyping Surgical Guide for Anterior Crown Lengthening Surgery: A Clinical Case Report. Journal of Prosthodontics, 2021, , .	1.7	3
25	Role of programmed cell death 4 in myofibroblast differentiation in oral submucous fibrosis. Journal of Oral and Maxillofacial Pathology, 2021, 25, 430.	0.3	0
26	Effects of mechanical vibrations on maxillary canine retraction and perceived pain: a pilot, single-center, randomized-controlled clinical trial. Odontology / the Society of the Nippon Dental University, 2020, 108, 321-330.	0.9	22
27	Photobiomodulation therapy for management of inferior alveolar nerve injury post-extraction of impacted lower third molars. Lasers in Dental Science, 2020, 4, 25-32.	0.3	8
28	Roles of the matricellular protein Tenascin-C in T-lymphocyte trafficking and etiopathogenesis of Oral Lichen Planus. Archives of Oral Biology, 2020, 110, 104622.	0.8	4
29	MASCC/ISOO clinical practice guidelines for the management of mucositis secondary to cancer therapy. Cancer, 2020, 126, 4423-4431.	2.0	540
30	Safety and efficacy of photobiomodulation therapy in oncology: A systematic review. Cancer Medicine, 2020, 9, 8279-8300.	1.3	49
31	Photobiomodulation therapy in diabetic wound healing. , 2020, , 305-321.		0
32	Photobiomodulation Therapy to Mitigate Radiation Fibrosis Syndrome. Photobiomodulation, Photomedicine, and Laser Surgery, 2020, 38, 355-363.	0.7	4
33	Photoimmunotherapy: A Novel Field with Overlapping Light Treatment Approaches. Photobiomodulation, Photomedicine, and Laser Surgery, 2020, 38, 524-526.	0.7	3
34	Enhancing Skin Grafts with Primed Gingival Mesenchymal Stromal Cells. Journal of Investigative Dermatology, 2020, 140, 519-520.	0.3	0
35	Precision photomedicine: biomarkers for clinical translation of PBM therapy (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		0
36	Systematic review of photobiomodulation for the management of oral mucositis in cancer patients and clinical practice guidelines. Supportive Care in Cancer, 2019, 27, 3969-3983.	1.0	213

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37	Photobiomodulation therapy and the brain: an innovative tool for therapy and discovery. , 2019, , 3-7.		0
38	Photobiomodulation as a potential therapeutic strategy for improving cognitive and functional outcomes in traumatic brain injury. , 2019, , 333-361.		1
39	Feeling the Heat: Evolutionary and Microbial Basis for the Analgesic Mechanisms of Photobiomodulation Therapy. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 517-526.	0.7	26
40	Light-Emitting Diode Therapy and Low-Level Light Therapy Are Photobiomodulation Therapy. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 63-65.	0.7	52
41	OPTIMIZATION OF DIAGNOSTIC IMMUNOHISTOCHEMISTRY OF FORMALIN-fiXED, PARAffiN-EMBEDDED TISSUES. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2019, 128, e38-e39.	0.2	0
42	Examining tumor modulating effects of photobiomodulation therapy on head and neck squamous cell carcinomas. Photochemical and Photobiological Sciences, 2019, 18, 1621-1637.	1.6	23
43	Molecular impacts of photobiomodulation on bone regeneration: AÂsystematic review. Progress in Biophysics and Molecular Biology, 2019, 149, 147-159.	1.4	44
44	Photobiomodulation in Pediatric Dentistry: A Current State-of-the-Art. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 798-813.	0.7	3
45	Photobiomodulation Therapy in Clinical Dentistry. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 737-738.	0.7	6
46	Photobiomodulation Therapy for Wound Care: A Potent, Noninvasive, Photoceutical Approach. Advances in Skin and Wound Care, 2019, 32, 157-167.	0.5	114
47	Learning from clinical phenotypes: Lowâ€dose biophotonics therapies in oral diseases. Oral Diseases, 2018, 24, 261-276.	1.5	14
48	Locally advanced oral squamous cell carcinoma patients treated with photobiomodulation for prevention of oral mucositis: retrospective outcomes and safety analyses. Supportive Care in Cancer, 2018, 26, 2417-2423.	1.0	55
49	Healing Tumors with Light: Science Fiction or the Future of Medicine?. Photomedicine and Laser Surgery, 2018, 36, 227-229.	2.1	7
50	Functionalized prosthetic interfaces using 3D printing: Generating infection-neutralizing prosthesis in dentistry. Materials Today Communications, 2018, 15, 114-119.	0.9	27
51	Improved Wound Remodeling Correlates with Modulated <scp>TGF</scp>â€beta Expression in Skin Diabetic Wounds Following Combined Red and Infrared Photobiomodulation Treatments. Photochemistry and Photobiology, 2018, 94, 775-779.	1.3	24
52	Photobiomodulation Therapy Alleviates Tissue Fibroses Associated with Chronic Graft-Versus-Host Disease: Two Case Reports and Putative Anti-Fibrotic Roles of TGF-Î². Photomedicine and Laser Surgery, 2018, 36, 92-99.	2.1	18
53	Nanoscale and Macroscale Scaffolds with Controlled-Release Polymeric Systems for Dental Craniomaxillofacial Tissue Engineering. Materials, 2018, 11, 1478.	1.3	27
54	Co-opting Developmental Signaling Pathways to Promote Wound Healing. Recent Clinical Techniques, Results, and Research in Wounds, 2018, , 103-114.	0.1	1

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55	Photobiomodulation therapy in the management of oral mucositis: search for the optimal clinical treatment parameters. Supportive Care in Cancer, 2018, 26, 3319-3321.	1.0	27
56	The Skinny on Fats in Wound Healing. Journal of Investigative Dermatology, 2018, 138, 1909-1910.	0.3	2
57	[Ru(bipy)3]2+ nanoparticle-incorporate dental light cure resin to promote photobiomodulation therapy for enhanced vital pulp tissue repair. , 2018, , .		0
58	Photoceuticals: a mechanistic pharmacological approach to photobiomodulation dosimetery (Conference Presentation). , 2018, , .		0
59	3D bioprinting: prostheses–restorations¦now, tissues and organ systems!. Oral Diseases, 2017, 23, 404-408.	1.5	2
60	Clinical translation of photobiomodulation therapy using evidences from precision molecular pathway analyses (Conference Presentation). , 2017, , .		0
61	Cell volume change through water efflux impacts cell stiffness and stem cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8618-E8627.	3.3	362
62	Timed Delivery of Therapy Enhances Functional Muscle Regeneration. Advanced Healthcare Materials, 2017, 6, 1700202.	3.9	6
63	Laser€activated transforming growth factor€Î²1 induces human Î²€defensin 2: implications for laser therapies for periodontitis and peri€implantitis. Journal of Periodontal Research, 2017, 52, 360-367.	1.4	44
64	Special issue on lasers in dentistry. Lasers in Surgery and Medicine, 2016, 48, 912-914.	1.1	2
65	Photobiomodulation Therapy: Communicating with Stem Cells for Regeneration?. Photomedicine and Laser Surgery, 2016, 34, 497-499.	2.1	16
66	Craniofacial Wound Healing with Photobiomodulation Therapy. Journal of Dental Research, 2016, 95, 977-984.	2.5	122
67	Photobiomodulation Therapy Promotes Expansion of Epithelial Colony Forming Units. Photomedicine and Laser Surgery, 2016, 34, 550-555.	2.1	24
68	Cell lineage responses to photobiomodulation therapy. Journal of Biophotonics, 2016, 9, 1148-1156.	1.1	45
69	Special Issue on Stem Cells and Photobiomodulation Therapy. Photomedicine and Laser Surgery, 2016, 34, 495-496.	2.1	1
70	Nitromedicine: translating alternative medicine to evidence based medicine and redefining disease (Conference Presentation). , 2016, , .		0
71	Precision medicine: Molecular mechanisms will lead future optimizations with PBM therapy (Conference Presentation). , 2016, , .		0
72	Conditional TNF-Î± Overexpression in the Tooth and Alveolar Bone Results in Painful Pulpitis and Osteitis. Journal of Dental Research, 2016, 95, 188-195.	2.5	42

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73	Dosimetry for photobiomodulation therapy: response to Sommers et al.. Annals of Translational Medicine, 2016, 4, 208-208.	0.7	19
74	Molecular pathway of near-infrared laser phototoxicity involves ATF-4 orchestrated ER stress. Scientific Reports, 2015, 5, 10581.	1.6	91
75	The effect of red, green and blue lasers on healing of oral wounds in diabetic rats. Journal of Photochemistry and Photobiology B: Biology, 2015, 148, 242-245.	1.7	29
76	Front Matter: Volume 9309. , 2015, , .		0
77	Low level laser (light) therapy and photobiomodulation: the path forward. Proceedings of SPIE, 2015, , .	0.8	13
78	Modeling and Validation of Multilayer Poly(Lactide-Co-Glycolide) Scaffolds for In Vitro Directed Differentiation of Juxtaposed Cartilage and Bone. Tissue Engineering - Part A, 2015, 21, 2228-2240.	1.6	10
79	Low-Level Light/Laser Therapy Versus Photobiomodulation Therapy. Photomedicine and Laser Surgery, 2015, 33, 183-184.	2.1	414
80	Biophysical Approaches for Oral Wound Healing: Emphasis on Photobiomodulation. Advances in Wound Care, 2015, 4, 724-737.	2.6	62
81	Mechanism of drugâ€induced gingival overgrowth revisited: a unifying hypothesis. Oral Diseases, 2015, 21, e51-61.	1.5	63
82	Photoactivation of Endogenous Latent Transforming Growth Factorâ€“Î²1 Directs Dental Stem Cell Differentiation for Regeneration. Science Translational Medicine, 2014, 6, 238ra69.	5.8	206
83	Multi-lineage MSC Differentiation via Engineered Morphogen Fields. Journal of Dental Research, 2014, 93, 1250-1257.	2.5	24
84	Performance and biocompatibility of extremely tough alginate/polyacrylamide hydrogels. Biomaterials, 2013, 34, 8042-8048.	5.7	282
85	Transforming Growth Factor Beta Signaling in Cutaneous Wound Healing: Lessons Learned from Animal Studies. Advances in Wound Care, 2013, 2, 225-237.	2.6	85
86	Transforming Growth Factor-Î²3 (TGF-Î²3) Knock-in Ameliorates Inflammation Due to TGF-Î²1 Deficiency While Promoting Glucose Tolerance. Journal of Biological Chemistry, 2013, 288, 32074-32092.	1.6	41
87	Tissue regeneration with photobiomodulation. Proceedings of SPIE, 2013, , .	0.8	0
88	Photobiomodulation and implants: implications for dentistry. Journal of Periodontal and Implant Science, 2013, 43, 262.	0.9	40
89	TGF-ÃŸ Regulates Enamel Mineralization and Maturation through KLK4 Expression. PLoS ONE, 2013, 8, e82267.	1.1	33
90	Cranial Particulate Bone Graft Ossifies Calvarial Defects by Osteogenesis. Plastic and Reconstructive Surgery, 2012, 129, 796e-802e.	0.7	20

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91	Effect of Calvarial Burring on Resorption of Onlay Cranial Bone Graft. Journal of Craniofacial Surgery, 2012, 23, 1495-1498.	0.3	4
92	Targeting the pain, inflammation and immune (PII) axis: plausible rationale for LLLT. Photonics & Lasers in Medicine, 2012, 1, .	0.3	14
93	Injectable preformed scaffolds with shape-memory properties. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19590-19595.	3.3	411
94	Adipose Tissue Engineering Using Injectable, Oxidized Alginate Hydrogels. Tissue Engineering - Part A, 2012, 18, 737-743.	1.6	63
95	Statistical platform to discern spatial and temporal coordination of endothelial sprouting. Integrative Biology (United Kingdom), 2012, 4, 292.	0.6	2
96	Photobiomodulation: Poised from the Fringes. Photomedicine and Laser Surgery, 2012, 30, 507-509.	2.1	11
97	Intraoperative Cooling of Iliac Bone Graft: An Experimental Evaluation of Cell Viability. Journal of Oral and Maxillofacial Surgery, 2012, 70, 1633-1635.	0.5	6
98	Low-Level Laser Therapy Activates NF-kB via Generation of Reactive Oxygen Species in Mouse Embryonic Fibroblasts. PLoS ONE, 2011, 6, e22453.	1.1	362
99	Autologous Cranial Particulate Bone Graft. Journal of Craniofacial Surgery, 2011, 22, 319-323.	0.3	10
100	At the edge of translation â€“ materials to program cells for directed differentiation. Oral Diseases, 2011, 17, 241-251.	1.5	15
101	Inlay Cranioplasty: An Experimental Comparison of Particulate Graft versus Bone Dust. Plastic and Reconstructive Surgery, 2010, 126, 1311-1319.	0.7	57
102	Grb2 and Other Adaptor Proteins in Tumor Metastasis. Cancer Metastasis - Biology and Treatment, 2010, , 77-102.	0.1	1
103	Modulating Notch signaling to enhance neovascularization and reperfusion in diabetic mice. Biomaterials, 2010, 31, 9048-9056.	5.7	27
104	Effect of calvarial burring on resorption of onlay cranial bone graft: An experimental study. Journal of the American College of Surgeons, 2010, 211, S82.	0.2	0
105	Harnessing traction-mediated manipulation of the cell/matrix interface to control stem-cell fate. Nature Materials, 2010, 9, 518-526.	13.3	1,319
106	Low level laser therapy activates NF-kB via generation of reactive oxygen species in mouse embryonic fibroblasts. Proceedings of SPIE, 2009, , .	0.8	17
107	Promoting angiogenesis via manipulation of VEGF responsiveness with notch signaling. Biomaterials, 2009, 30, 4085-4093.	5.7	77
108	Role of reactive oxygen species in low level light therapy. Proceedings of SPIE, 2009, , .	0.8	24

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109	Role of ROS-mediated TGF beta activation in laser photobiomodulation. Proceedings of SPIE, 2009, , .	0.8	2
110	Smad3 deficiency inhibits v-ras-induced transformation by suppression of JNK MAPK signaling and increased farnesyl transferase inhibition. Oncogene, 2008, 27, 2507-2512.	2.6	16
111	Absence of Smad3 Induces Neutrophil Migration after Cutaneous Irradiation. American Journal of Pathology, 2008, 173, 68-76.	1.9	18
112	Photobiomodulation by Low Power Laser Irradiation Involves Activation of Latent TGF-Î²1. Lecture Notes in Electrical Engineering, 2008, , 207-212.	0.3	2
113	Inhibition of Prostate Cancer Growth by Muscadine Grape Skin Extract and Resveratrol through Distinct Mechanisms. Cancer Research, 2007, 67, 8396-8405.	0.4	125
114	Absence of Smad3 confers radioprotection through modulation of ERK-MAPK in primary dermal fibroblasts. Journal of Dermatological Science, 2007, 48, 35-42.	1.0	15
115	Activation of latent TGFâ€Î²1 by lowâ€power laser in vitro correlates with increased TGFâ€Î²1 levels in laserâ€enhanced oral wound healing. Wound Repair and Regeneration, 2007, 15, 866-874.	1.5	124
116	Smad3 deficiency alters key structural elements of the extracellular matrix and mechanotransduction of wound closure. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9250-9255.	3.3	68
117	Breast cancer cells induce stromal fibroblasts to express MMP-9 via secretion of TNF-Î± and TGF-Î². Journal of Cell Science, 2005, 118, 2143-2153.	1.2	219
118	Using lasers for stem cell therapies. SPIE Newsroom, 0, , .	0.1	1
119	Quality Assessment of PBM Protocols for Oral Complications in Head and Neck Cancer Patients: Part 1. Frontiers in Oral Health, 0, 3, .	1.2	8