

Praveen R Arany

List of Publications by Year in descending order

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Version: 2024-02-01

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	Harnessing traction-mediated manipulation of the cell/matrix interface to control stem-cell fate. <i>Nature Materials</i> , 2010, 9, 518-526.	13.3	1,319
2	MASCC/ISOO clinical practice guidelines for the management of mucositis secondary to cancer therapy. <i>Cancer</i> , 2020, 126, 4423-4431.	2.0	540
3	Low-Level Light/Laser Therapy Versus Photobiomodulation Therapy. <i>Photomedicine and Laser Surgery</i> , 2015, 33, 183-184.	2.1	414
4	Injectable preformed scaffolds with shape-memory properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19590-19595.	3.3	411
5	Low-Level Laser Therapy Activates NF- κ B via Generation of Reactive Oxygen Species in Mouse Embryonic Fibroblasts. <i>PLoS ONE</i> , 2011, 6, e22453.	1.1	362
6	Cell volume change through water efflux impacts cell stiffness and stem cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8618-E8627.	3.3	362
7	Performance and biocompatibility of extremely tough alginate/polyacrylamide hydrogels. <i>Biomaterials</i> , 2013, 34, 8042-8048.	5.7	282
8	Breast cancer cells induce stromal fibroblasts to express MMP-9 via secretion of TNF- α and TGF- β . <i>Journal of Cell Science</i> , 2005, 118, 2143-2153.	1.2	219
9	Systematic review of photobiomodulation for the management of oral mucositis in cancer patients and clinical practice guidelines. <i>Supportive Care in Cancer</i> , 2019, 27, 3969-3983.	1.0	213
10	Photoactivation of Endogenous Latent Transforming Growth Factor- β 1 Directs Dental Stem Cell Differentiation for Regeneration. <i>Science Translational Medicine</i> , 2014, 6, 238ra69.	5.8	206
11	Inhibition of Prostate Cancer Growth by Muscadine Grape Skin Extract and Resveratrol through Distinct Mechanisms. <i>Cancer Research</i> , 2007, 67, 8396-8405.	0.4	125
12	Activation of latent TGF- β 1 by low-power laser in vitro correlates with increased TGF- β 1 levels in laser-enhanced oral wound healing. <i>Wound Repair and Regeneration</i> , 2007, 15, 866-874.	1.5	124
13	Craniofacial Wound Healing with Photobiomodulation Therapy. <i>Journal of Dental Research</i> , 2016, 95, 977-984.	2.5	122
14	Photobiomodulation Therapy for Wound Care: A Potent, Noninvasive, Photoceutical Approach. <i>Advances in Skin and Wound Care</i> , 2019, 32, 157-167.	0.5	114
15	Molecular pathway of near-infrared laser phototoxicity involves ATF-4 orchestrated ER stress. <i>Scientific Reports</i> , 2015, 5, 10581.	1.6	91
16	Transforming Growth Factor Beta Signaling in Cutaneous Wound Healing: Lessons Learned from Animal Studies. <i>Advances in Wound Care</i> , 2013, 2, 225-237.	2.6	85
17	Promoting angiogenesis via manipulation of VEGF responsiveness with notch signaling. <i>Biomaterials</i> , 2009, 30, 4085-4093.	5.7	77
18	Smad3 deficiency alters key structural elements of the extracellular matrix and mechanotransduction of wound closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9250-9255.	3.3	68

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19	Adipose Tissue Engineering Using Injectable, Oxidized Alginate Hydrogels. <i>Tissue Engineering - Part A</i> , 2012, 18, 737-743.	1.6	63
20	Mechanism of drug-induced gingival overgrowth revisited: a unifying hypothesis. <i>Oral Diseases</i> , 2015, 21, e51-61.	1.5	63
21	Biophysical Approaches for Oral Wound Healing: Emphasis on Photobiomodulation. <i>Advances in Wound Care</i> , 2015, 4, 724-737.	2.6	62
22	Inlay Cranioplasty: An Experimental Comparison of Particulate Graft versus Bone Dust. <i>Plastic and Reconstructive Surgery</i> , 2010, 126, 1311-1319.	0.7	57
23	Locally advanced oral squamous cell carcinoma patients treated with photobiomodulation for prevention of oral mucositis: retrospective outcomes and safety analyses. <i>Supportive Care in Cancer</i> , 2018, 26, 2417-2423.	1.0	55
24	Light-Emitting Diode Therapy and Low-Level Light Therapy Are Photobiomodulation Therapy. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 63-65.	0.7	52
25	Safety and efficacy of photobiomodulation therapy in oncology: A systematic review. <i>Cancer Medicine</i> , 2020, 9, 8279-8300.	1.3	49
26	Cell lineage responses to photobiomodulation therapy. <i>Journal of Biophotonics</i> , 2016, 9, 1148-1156.	1.1	45
27	Laser-activated transforming growth factor- β 1 induces human β -defensin 2: implications for laser therapies for periodontitis and peri-implantitis. <i>Journal of Periodontal Research</i> , 2017, 52, 360-367.	1.4	44
28	Molecular impacts of photobiomodulation on bone regeneration: A systematic review. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 149, 147-159.	1.4	44
29	Conditional TNF- α Overexpression in the Tooth and Alveolar Bone Results in Painful Pulpitis and Osteitis. <i>Journal of Dental Research</i> , 2016, 95, 188-195.	2.5	42
30	Transforming Growth Factor- β 3 (TGF- β 3) Knock-in Ameliorates Inflammation Due to TGF- β 1 Deficiency While Promoting Glucose Tolerance. <i>Journal of Biological Chemistry</i> , 2013, 288, 32074-32092.	1.6	41
31	Photobiomodulation and implants: implications for dentistry. <i>Journal of Periodontal and Implant Science</i> , 2013, 43, 262.	0.9	40
32	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. <i>Supportive Care in Cancer</i> , 2021, 29, 3539-3562.	1.0	33
33	TGF- β 3 Regulates Enamel Mineralization and Maturation through KLK4 Expression. <i>PLoS ONE</i> , 2013, 8, e82267.	1.1	33
34	Accelerated burn wound healing with photobiomodulation therapy involves activation of endogenous latent TGF- β 1. <i>Scientific Reports</i> , 2021, 11, 13371.	1.6	31
35	The effect of red, green and blue lasers on healing of oral wounds in diabetic rats. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 148, 242-245.	1.7	29
36	Modulating Notch signaling to enhance neovascularization and reperfusion in diabetic mice. <i>Biomaterials</i> , 2010, 31, 9048-9056.	5.7	27

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37	Functionalized prosthetic interfaces using 3D printing: Generating infection-neutralizing prosthesis in dentistry. <i>Materials Today Communications</i> , 2018, 15, 114-119.	0.9	27
38	Nanoscale and Macroscale Scaffolds with Controlled-Release Polymeric Systems for Dental Craniomaxillofacial Tissue Engineering. <i>Materials</i> , 2018, 11, 1478.	1.3	27
39	Photobiomodulation therapy in the management of oral mucositis: search for the optimal clinical treatment parameters. <i>Supportive Care in Cancer</i> , 2018, 26, 3319-3321.	1.0	27
40	Feeling the Heat: Evolutionary and Microbial Basis for the Analgesic Mechanisms of Photobiomodulation Therapy. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 517-526.	0.7	26
41	Role of reactive oxygen species in low level light therapy. <i>Proceedings of SPIE</i> , 2009, , .	0.8	24
42	Multi-lineage MSC Differentiation <i>via</i> Engineered Morphogen Fields. <i>Journal of Dental Research</i> , 2014, 93, 1250-1257.	2.5	24
43	Photobiomodulation Therapy Promotes Expansion of Epithelial Colony Forming Units. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 550-555.	2.1	24
44	Improved Wound Remodeling Correlates with Modulated α TGF β Expression in Skin Diabetic Wounds Following Combined Red and Infrared Photobiomodulation Treatments. <i>Photochemistry and Photobiology</i> , 2018, 94, 775-779.	1.3	24
45	Examining tumor modulating effects of photobiomodulation therapy on head and neck squamous cell carcinomas. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1621-1637.	1.6	23
46	Effects of mechanical vibrations on maxillary canine retraction and perceived pain: a pilot, single-center, randomized-controlled clinical trial. <i>Odontology / the Society of the Nippon Dental University</i> , 2020, 108, 321-330.	0.9	22
47	Cranial Particulate Bone Graft Ossifies Calvarial Defects by Osteogenesis. <i>Plastic and Reconstructive Surgery</i> , 2012, 129, 796e-802e.	0.7	20
48	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.	1.8	20
49	Dosimetry for photobiomodulation therapy: response to Sommers et al.. <i>Annals of Translational Medicine</i> , 2016, 4, 208-208.	0.7	19
50	Absence of Smad3 Induces Neutrophil Migration after Cutaneous Irradiation. <i>American Journal of Pathology</i> , 2008, 173, 68-76.	1.9	18
51	Photobiomodulation Therapy Alleviates Tissue Fibroses Associated with Chronic Graft-Versus-Host Disease: Two Case Reports and Putative Anti-Fibrotic Roles of TGF- β 2. <i>Photomedicine and Laser Surgery</i> , 2018, 36, 92-99.	2.1	18
52	Low level laser therapy activates NF- κ B via generation of reactive oxygen species in mouse embryonic fibroblasts. <i>Proceedings of SPIE</i> , 2009, , .	0.8	17
53	Smad3 deficiency inhibits v-ras-induced transformation by suppression of JNK MAPK signaling and increased farnesyl transferase inhibition. <i>Oncogene</i> , 2008, 27, 2507-2512.	2.6	16
54	Photobiomodulation Therapy: Communicating with Stem Cells for Regeneration?. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 497-499.	2.1	16

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55	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.	1.4	16
56	Absence of Smad3 confers radioprotection through modulation of ERK-MAPK in primary dermal fibroblasts. <i>Journal of Dermatological Science</i> , 2007, 48, 35-42.	1.0	15
57	At the edge of translation “ materials to program cells for directed differentiation. <i>Oral Diseases</i> , 2011, 17, 241-251.	1.5	15
58	Targeting the pain, inflammation and immune (PII) axis: plausible rationale for LLLT. <i>Photonics & Lasers in Medicine</i> , 2012, 1, .	0.3	14
59	Learning from clinical phenotypes: Low-dose biophotonics therapies in oral diseases. <i>Oral Diseases</i> , 2018, 24, 261-276.	1.5	14
60	Low level laser (light) therapy and photobiomodulation: the path forward. <i>Proceedings of SPIE</i> , 2015, , .	0.8	13
61	Precision-engineered niche for directed differentiation of MSCs to lineage-restricted mineralized tissues. <i>Journal of Tissue Engineering</i> , 2022, 13, 204173142110739.	2.3	12
62	Photobiomodulation: Poised from the <i>Fringes</i>. <i>Photomedicine and Laser Surgery</i> , 2012, 30, 507-509.	2.1	11
63	Photobiomodulation-Activated Latent Transforming Growth Factor- β 1: A Critical Clinical Therapeutic Pathway and an Endogenous Optogenetic Tool for Discovery. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2022, 40, 136-147.	0.7	11
64	Thermodynamic basis for comparative photobiomodulation dosing with multiple wavelengths to direct odontoblast differentiation. <i>Journal of Biophotonics</i> , 2022, 15, .	1.1	11
65	Autologous Cranial Particulate Bone Graft. <i>Journal of Craniofacial Surgery</i> , 2011, 22, 319-323.	0.3	10
66	Modeling and Validation of Multilayer Poly(Lactide-Co-Glycolide) Scaffolds for <i>In Vitro</i> Directed Differentiation of Juxtaposed Cartilage and Bone. <i>Tissue Engineering - Part A</i> , 2015, 21, 2228-2240.	1.6	10
67	Effect of photobiomodulation therapy on inflammatory cytokines in healing dynamics of diabetic wounds: a systematic review of preclinical studies. <i>Archives of Physiology and Biochemistry</i> , 2023, 129, 663-670.	1.0	10
68	The Efficacy of Photobiomodulation Therapy in Improving Tissue Resilience and Healing of Radiation Skin Damage. <i>Photonics</i> , 2022, 9, 10.	0.9	9
69	Photobiomodulation therapy for management of inferior alveolar nerve injury post-extraction of impacted lower third molars. <i>Lasers in Dental Science</i> , 2020, 4, 25-32.	0.3	8
70	Quality Assessment of PBM Protocols for Oral Complications in Head and Neck Cancer Patients: Part 1. <i>Frontiers in Oral Health</i> , 0, 3, .	1.2	8
71	<i>Healing</i> Tumors with Light: Science Fiction or <i>the</i> Future of Medicine?. <i>Photomedicine and Laser Surgery</i> , 2018, 36, 227-229.	2.1	7
72	Recovering the osteoblastic differentiation potential of mesenchymal stem cells derived from diabetic rats by photobiomodulation therapy. <i>Journal of Biophotonics</i> , 2021, 14, e202000393.	1.1	7

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73	Effect of Photobiomodulation Therapy on Oxidative Stress Markers in Healing Dynamics of Diabetic Neuropathic Wounds in Wistar Rats. <i>Cell Biochemistry and Biophysics</i> , 2022, 80, 151-160.	0.9	7
74	Impact of photobiomodulation in a patientâ€derived xenograft model of oral squamous cell carcinoma. <i>Oral Diseases</i> , 2023, 29, 547-556.	1.5	7
75	Intraoperative Cooling of Iliac Bone Graft: An Experimental Evaluation of Cell Viability. <i>Journal of Oral and Maxillofacial Surgery</i> , 2012, 70, 1633-1635.	0.5	6
76	Timed Delivery of Therapy Enhances Functional Muscle Regeneration. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700202.	3.9	6
77	Photobiomodulation Therapy in Clinical Dentistry. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 737-738.	0.7	6
78	At-Home Photobiomodulation Treatments for Supportive Cancer Care During the COVID-19 Pandemic. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2021, 39, 81-82.	0.7	5
79	Effect of Calvarial Burring on Resorption of Onlay Cranial Bone Graft. <i>Journal of Craniofacial Surgery</i> , 2012, 23, 1495-1498.	0.3	4
80	Roles of the matricellular protein Tenascin-C in T-lymphocyte trafficking and etiopathogenesis of Oral Lichen Planus. <i>Archives of Oral Biology</i> , 2020, 110, 104622.	0.8	4
81	Photobiomodulation Therapy to Mitigate Radiation Fibrosis Syndrome. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2020, 38, 355-363.	0.7	4
82	Tantalum-containing meso-porous glass fibres for hemostatic applications. <i>Materials Today Communications</i> , 2021, 27, 102260.	0.9	4
83	Photobiomodulation in Pediatric Dentistry: A Current State-of-the-Art. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 798-813.	0.7	3
84	Photoimmunotherapy: A Novel Field with Overlapping Light Treatment Approaches. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2020, 38, 524-526.	0.7	3
85	Salivary alpha-1-antitrypsin and macrophage migration inhibitory factor may be potential prognostic biomarkers for oncologic treatmentâ€induced severe oral mucositis. <i>Supportive Care in Cancer</i> , 2021, 29, 2939-2946.	1.0	3
86	Light distribution of 635Ånm LED for PBM treatments in the maxillofacial region. <i>Oral and Maxillofacial Surgery Cases</i> , 2021, 7, 100208.	0.1	3
87	Enhancing osteoblast differentiation through small molecule-incorporated engineered nanofibrous scaffold. <i>Clinical Oral Investigations</i> , 2022, 26, 2607-2618.	1.4	3
88	Virtual Planning and Rapid 3D Prototyping Surgical Guide for Anterior Crown Lengthening Surgery: A Clinical Case Report. <i>Journal of Prosthodontics</i> , 2021, , .	1.7	3
89	Role of ROS-mediated TGF beta activation in laser photobiomodulation. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
90	Statistical platform to discern spatial and temporal coordination of endothelial sprouting. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 292.	0.6	2

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91	Special issue on lasers in dentistry. Lasers in Surgery and Medicine, 2016, 48, 912-914.	1.1	2
92	3D bioprinting: prosthesesâ€“restorationsâ€“ now, tissues and organ systems!. Oral Diseases, 2017, 23, 404-408.	1.5	2
93	The Skinny on Fats in Wound Healing. Journal of Investigative Dermatology, 2018, 138, 1909-1910.	0.3	2
94	Photobiomodulation by Low Power Laser Irradiation Involves Activation of Latent TGF-Î²1. Lecture Notes in Electrical Engineering, 2008, , 207-212.	0.3	2
95	Grb2 and Other Adaptor Proteins in Tumor Metastasis. Cancer Metastasis - Biology and Treatment, 2010, , 77-102.	0.1	1
96	Special Issue on Stem Cells and Photobiomodulation Therapy. Photomedicine and Laser Surgery, 2016, 34, 495-496.	2.1	1
97	Co-opting Developmental Signaling Pathways to Promote Wound Healing. Recent Clinical Techniques, Results, and Research in Wounds, 2018, , 103-114.	0.1	1
98	Photobiomodulation as a potential therapeutic strategy for improving cognitive and functional outcomes in traumatic brain injury. , 2019, , 333-361.		1
99	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
100	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
101	Using lasers for stem cell therapies. SPIE Newsroom, 0, , .	0.1	1
102	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
103	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
104	Tissue regeneration with photobiomodulation. Proceedings of SPIE, 2013, , .	0.8	0
105	Front Matter: Volume 9309. , 2015, , .		0
106	Nitromedicine: translating alternative medicine to evidence based medicine and redefining disease (Conference Presentation). , 2016, , .		0
107	Precision medicine: Molecular mechanisms will lead future optimizations with PBM therapy (Conference Presentation). , 2016, , .		0
108	Clinical translation of photobiomodulation therapy using evidences from precision molecular pathway analyses (Conference Presentation). , 2017, , .		0

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109	Photobiomodulation therapy and the brain: an innovative tool for therapy and discovery. , 2019, , 3-7.		0
110	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
111	Photobiomodulation therapy in diabetic wound healing. , 2020, , 305-321.		0
112	Enhancing Skin Grafts with Primed Gingival Mesenchymal Stromal Cells. Journal of Investigative Dermatology, 2020, 140, 519-520.	0.3	0
113	Photoimmunotherapy: a confluence of multiple biophotonics treatments. , 2021, , .		0
114	Welcome and Introduction to Conference 11628B. , 2021, , .		0
115	[Ru(bipy)3]2+ nanoparticle-incorporate dental light cure resin to promote photobiomodulation therapy for enhanced vital pulp tissue repair. , 2018, , .		0
116	Photoceuticals: a mechanistic pharmacological approach to photobiomodulation dosimetry (Conference Presentation). , 2018, , .		0
117	Precision photomedicine: biomarkers for clinical translation of PBM therapy (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		0
118	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
119	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