

Significant Improvements in Cognitive Performance Following Light-Emitting Diode Treatments in Chronic, Mild Traumatic Brain Injury Study

Journal of Neurotrauma

31, 1008-1017

DOI: [10.1089/neu.2013.3244](https://doi.org/10.1089/neu.2013.3244)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Low-Level Laser Therapy Applied Transcranially to Mice following Traumatic Brain Injury Significantly Reduces Long-term Neurological Deficits. <i>Journal of Neurotrauma</i> , 2007, 24, 651-656.	1.7	178
2	Treatment of Poststroke Aphasia: Current Practice and New Directions. <i>Seminars in Neurology</i> , 2014, 34, 504-513.	0.5	33
3	Treatments for traumatic brain injury with emphasis on transcranial near-infrared laser phototherapy. <i>Neuropsychiatric Disease and Treatment</i> , 2015, 11, 2159.	1.0	108
4	Clinical utility of brain stimulation modalities following traumatic brain injury: current evidence. <i>Neuropsychiatric Disease and Treatment</i> , 2015, 11, 1573.	1.0	61
5	Transcranial Near-Infrared Laser Transmission (NILT) Profiles (800 nm): Systematic Comparison in Four Common Research Species. <i>PLoS ONE</i> , 2015, 10, e0127580.	1.1	59
6	Near-Infrared Transcranial Radiation for Major Depressive Disorder: Proof of Concept Study. <i>Psychiatry Journal</i> , 2015, 2015, 1-8.	0.7	90
7	An Overview of Biofield Devices. <i>Global Advances in Health and Medicine</i> , 2015, 4, gahmj.2015.022..	0.7	20
9	Red/near-infrared light-emitting diode therapy for traumatic brain injury. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
10	Low level laser (light) therapy and photobiomodulation: the path forward. <i>Proceedings of SPIE</i> , 2015, , .	0.8	13
11	Traumatic Brain Injury: A Major Medical Problem That Could Be Treated Using Transcranial, Red/Near-Infrared LED Photobiomodulation. <i>Photomedicine and Laser Surgery</i> , 2015, 33, 443-446.	2.1	37
12	Turning On Lights to Stop Neurodegeneration: The Potential of Near Infrared Light Therapy in Alzheimer's and Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2015, 9, 500.	1.4	122
13	Human Brain Reacts to Transcranial Extraocular Light. <i>PLoS ONE</i> , 2016, 11, e0149525.	1.1	21
14	Interventions that May Increase Cerebral Blood Flow. , 2016, , 217-228.		2
15	Chapter 39 Low-Level Laser (Light) Therapy for Rehabilitation in Traumatic Brain Injury and Stroke, including Chronic Aphasia. , 2016, , 761-808.		0
16	Chapter 54 Bright New World. , 2016, , 1093-1106.		1
17	Interplay between up-regulation of cytochrome-c-oxidase and hemoglobin oxygenation induced by near-infrared laser. <i>Scientific Reports</i> , 2016, 6, 30540.	1.6	144
18	Transcranial, Red/Near-Infrared Light-Emitting Diode Therapy to Improve Cognition in Chronic Traumatic Brain Injury. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 610-626.	2.1	69
19	Transcranial Low-Level Laser (Light) Therapy for Brain Injury. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 587-598.	2.1	61

#	ARTICLE	IF	CITATIONS
20	Chapter 40 Transcranial Near-Infrared Light for Major Depressive Disorder. , 2016, , 809-824.		0
21	Cognitive enhancement by transcranial laser stimulation and acute aerobic exercise. Lasers in Medical Science, 2016, 31, 1151-1160.	1.0	87
22	Shining light on the head: Photobiomodulation for brain disorders. BBA Clinical, 2016, 6, 113-124.	4.1	388
23	Transcranial laser stimulation improves human cerebral oxygenation. Lasers in Surgery and Medicine, 2016, 48, 343-349.	1.1	116
24	Therapeutic effects of 10-Hz Pulsed wave lasers in rat depression model: A comparison between near-infrared and red wavelengths. Lasers in Surgery and Medicine, 2016, 48, 695-705.	1.1	42
25	Repeated transcranial low-level laser therapy for traumatic brain injury in mice: biphasic dose response and long-term treatment outcome. Journal of Biophotonics, 2016, 9, 1263-1272.	1.1	54
26	Alzheimer's Turning Point. , 2016, , .		8
27	Review of transcranial photobiomodulation for major depressive disorder: targeting brain metabolism, inflammation, oxidative stress, and neurogenesis. Neurophotonics, 2016, 3, 031404.	1.7	136
28	The dark art of light measurement: accurate radiometry for low-level light therapy. Lasers in Medical Science, 2016, 31, 789-809.	1.0	69
29	Improving executive function using transcranial infrared laser stimulation. Journal of Neuropsychology, 2017, 11, 14-25.	0.6	119
30	Light in diagnosis, therapy and surgery. Nature Biomedical Engineering, 2017, 1, .	11.6	523
31	The potential of transcranial photobiomodulation therapy for treatment of major depressive disorder. Reviews in the Neurosciences, 2017, 28, 441-453.	1.4	51
32	Treating cognitive impairment with transcranial low level laser therapy. Journal of Photochemistry and Photobiology B: Biology, 2017, 168, 149-155.	1.7	39
33	Mechanisms and Effects of Transcranial Direct Current Stimulation. Dose-Response, 2017, 15, 155932581668546.	0.7	147
34	Significant Improvement in Cognition in Mild to Moderately Severe Dementia Cases Treated with Transcranial Plus Intranasal Photobiomodulation: Case Series Report. Photomedicine and Laser Surgery, 2017, 35, 432-441.	2.1	184
35	Effects of Near-Infrared Light on Cerebral Bioenergetics Measured with Phosphorus Magnetic Resonance Spectroscopy. Photomedicine and Laser Surgery, 2017, 35, 395-400.	2.1	14
36	Biological effects and medical applications of infrared radiation. Journal of Photochemistry and Photobiology B: Biology, 2017, 170, 197-207.	1.7	253
37	Photostimulation of mitochondria as a treatment for retinal neurodegeneration. Mitochondrion, 2017, 36, 85-95.	1.6	19

#	ARTICLE	IF	CITATIONS
38	Visual light effects on mitochondria: The potential implications in relation to glaucoma. <i>Mitochondrion</i> , 2017, 36, 29-35.	1.6	37
40	Transcranial infrared laser stimulation improves rule-based, but not information-integration, category learning in humans. <i>Neurobiology of Learning and Memory</i> , 2017, 139, 69-75.	1.0	59
41	Photobiomodulation and the brain: a new paradigm. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 013003.	1.0	141
42	Audio-Visual Entrainment: Physiological Mechanisms and Clinical Outcomes. , 2017, , 51-95.		4
43	Photobiomodulation and Other Light Stimulation Procedures. , 2017, , 97-129.		7
44	Interventions for Posttraumatic Brain Injury Fatigue: An Updated Review. <i>Current Physical Medicine and Rehabilitation Reports</i> , 2017, 5, 12-21.	0.3	1
45	Photobiomodulation for Stroke. <i>Translational Medicine Research</i> , 2017, , 397-414.	0.0	2
46	Multi-Watt Near-Infrared Phototherapy for the Treatment of Comorbid Depression: An Open-Label Single-Arm Study. <i>Frontiers in Psychiatry</i> , 2017, 8, 187.	1.3	36
47	Photobiomodulation with Near Infrared Light Helmet in a Pilot, Placebo Controlled Clinical Trial in Dementia Patients Testing Memory and Cognition. <i>Journal of Neurology and Neuroscience</i> , 2017, 08, .	0.4	114
48	An optical system via liquid crystal photonic devices for photobiomodulation. <i>Scientific Reports</i> , 2018, 8, 4251.	1.6	9
49	Photobiomodulation using low-level laser therapy (LLLT) for patients with chronic traumatic brain injury: a randomized controlled trial study protocol. <i>Trials</i> , 2018, 19, 17.	0.7	20
50	The Structure of the Rivermead Post-Concussion Symptoms Questionnaire in Australian Adults with Traumatic Brain Injury. <i>Brain Impairment</i> , 2018, 19, 166-182.	0.5	17
51	Brain Photobiomodulation Therapy: a Narrative Review. <i>Molecular Neurobiology</i> , 2018, 55, 6601-6636.	1.9	294
52	Nano-Pulsed Laser Therapy Is Neuroprotective in a Rat Model of Blast-Induced Neurotrauma. <i>Journal of Neurotrauma</i> , 2018, 35, 1510-1522.	1.7	25
53	Photobiomodulation for traumatic brain injury and stroke. <i>Journal of Neuroscience Research</i> , 2018, 96, 731-743.	1.3	147
54	A case control series for the effect of photobiomodulation in patients with low back pain and concurrent depression. <i>Laser Therapy</i> , 2018, 27, 167-173.	0.8	13
55	Acquired Resilience: An Evolved System of Tissue Protection in Mammals. <i>Dose-Response</i> , 2018, 16, 155932581880342.	0.7	29
56	Pulsed Transcranial Red/Near-Infrared Light Therapy Using Light-Emitting Diodes Improves Cerebral Blood Flow and Cognitive Function in Veterans with Chronic Traumatic Brain Injury: A Case Series. <i>Photomedicine and Laser Surgery</i> , 2018, , .	2.1	14

#	ARTICLE	IF	CITATIONS
57	Current Status of Light-Emitting Diode Phototherapy in Dermatological Practice. , 2018, , 285-337.		0
58	Transcranial Photobiomodulation for Psychiatric Disorders: Past and Future Directions. , 2018, ,		0
59	Transcranial Photobiomodulation for the Treatment of Major Depressive Disorder. The ELATED-2 Pilot Trial. Photomedicine and Laser Surgery, 2018, 36, 634-646.	2.1	73
60	ATR-IR study of skin components: Lipids, proteins and water. Part II: Near infrared radiation effect. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 202, 93-101.	2.0	2
61	Effects of Low-Level Laser Therapy in Autism Spectrum Disorder. Advances in Experimental Medicine and Biology, 2018, 1116, 111-130.	0.8	23
62	Photodynamic Therapy and Photobiomodulation: Can All Diseases be Treated with Light?. , 2018, , 100-135.		3
63	Transcranial light-emitting diode therapy for neuropsychological improvement after traumatic brain injury: a new perspective for diffuse axonal lesion management. Medical Devices: Evidence and Research, 2018, Volume 11, 139-146.	0.4	3
64	Effects of transcranial LED therapy on the cognitive rehabilitation for diffuse axonal injury due to severe acute traumatic brain injury: study protocol for a randomized controlled trial. Trials, 2018, 19, 249.	0.7	10
65	Safety and penetration of light into the brain. , 2019, , 49-66.		2
66	Light sources and dosimetry for the brain and whole body. , 2019, , 89-95.		0
67	Near-infrared photonic energy penetrationâ€™ principles and practice. , 2019, , 67-88.		2
68	Photobiomodulation for depression in animal models. , 2019, , 189-205.		1
69	Transcranial, red/near-infrared light-emitting diode therapy for chronic traumatic brain injury and poststroke aphasia: clinical studies. , 2019, , 309-331.		0
70	Photobiomodulation as a potential therapeutic strategy for improving cognitive and functional outcomes in traumatic brain injury. , 2019, , 333-361.		1
71	Treatment of traumatic brain injury with near-infrared light. , 2019, , 377-399.		0
72	Electroencephalography as the diagnostic adjunct to transcranial photobiomodulation. , 2019, , 419-426.		0
73	Can photobiomodulation enhance brain function in older adults?. , 2019, , 427-446.		1
74	Noninvasive neurotherapeutic treatment of neurodegeneration: integrating photobiomodulation and neurofeedback training. , 2019, , 447-462.		2

#	ARTICLE	IF	CITATIONS
75	Transcranial photobiomodulation for major depressive and anxiety disorders and for posttraumatic stress disorder. , 2019, , 479-487.		2
76	What we donâ€™t know and what the future holds. , 2019, , 599-613.		1
77	Transcranial Photobiomodulation Therapy in the Cognitive Rehabilitation of Patients with Cranioencephalic Trauma. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 657-666.	0.7	15
78	Transcranial Photobiomodulation Improves Cognitive Performance in Young Healthy Adults: A Systematic Review and Meta-Analysis. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 635-643.	0.7	23
79	Penetration Profiles of Visible and Near-Infrared Lasers and Light-Emitting Diode Light Through the Head Tissues in Animal and Human Species: A Review of Literature. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 581-595.	0.7	84
80	Exploring the Effects of Near Infrared Light on Resting and Evoked Brain Activity in Humans Using Magnetic Resonance Imaging. Neuroscience, 2019, 422, 161-171.	1.1	29
81	Transcranial Photobiomodulation with Near-Infrared Light for Generalized Anxiety Disorder: A Pilot Study. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 644-650.	0.7	24
82	â€œBucketsâ€ Early Observations on the Use of Red and Infrared Light Helmets in Parkinson's Disease Patients. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 615-622.	0.7	30
83	Transcranial Photobiomodulation for Down Syndrome. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 579-580.	0.7	3
84	The effect of 808â€%nm and 905â€%nm wavelength light on recovery after spinal cord injury. Scientific Reports, 2019, 9, 7660.	1.6	17
85	Photobiomodulation and Coenzyme Q10 Treatments Attenuate Cognitive Impairment Associated With Model of Transient Global Brain Ischemia in Artificially Aged Mice. Frontiers in Cellular Neuroscience, 2019, 13, 74.	1.8	57
86	Improvements in Gulf War Illness Symptoms After Near-Infrared Transcranial and Intranasal Photobiomodulation: Two Case Reports. Military Medicine, 2019, 184, e568-e574.	0.4	8
87	Pulsed Transcranial Red/Near-Infrared Light Therapy Using Light-Emitting Diodes Improves Cerebral Blood Flow and Cognitive Function in Veterans with Chronic Traumatic Brain Injury: A Case Series. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 77-84.	0.7	29
88	<p>Transcranial Photobiomodulation For The Management Of Depression: Current Perspectives</p>. Neuropsychiatric Disease and Treatment, 2019, Volume 15, 3255-3272.	1.0	35
89	A Critical Review on Selected External Physical Cues and Modulation of Cell Behavior: Magnetic Nanoparticles, Non-thermal Plasma and Lasers. Journal of Functional Biomaterials, 2019, 10, 2.	1.8	16
90	Photobiomodulation improves the frontal cognitive function of older adults. International Journal of Geriatric Psychiatry, 2019, 34, 369-377.	1.3	55
91	Light-Emitting Diodes. Solid State Lighting Technology and Application Series, 2019, , .	0.3	6
93	Photobiomodulation. , 2019, , 233-246.		2

#	ARTICLE	IF	CITATIONS
94	Increased Functional Connectivity Within Intrinsic Neural Networks in Chronic Stroke Following Treatment with Red/Near-Infrared Transcranial Photobiomodulation: Case Series with Improved Naming in Aphasia. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2020, 38, 115-131.	0.7	44
95	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
96	Therapeutic potential of intranasal photobiomodulation therapy for neurological and neuropsychiatric disorders: a narrative review. <i>Reviews in the Neurosciences</i> , 2020, 31, 269-286.	1.4	40
97	Changes in Brain Function and Structure After Self-Administered Home Photobiomodulation Treatment in a Concussion Case. <i>Frontiers in Neurology</i> , 2020, 11, 952.	1.1	19
98	Concussions in Ice Hockey – Moving Toward Objective Diagnoses and Point-of-care Treatment: A Review. <i>Current Sports Medicine Reports</i> , 2020, 19, 380-386.	0.5	5
99	A Novel Treatment of Opioid Cravings With an Effect Size of .73 for Unilateral Transcranial Photobiomodulation Over Sham. <i>Frontiers in Psychiatry</i> , 2020, 11, 827.	1.3	8
100	Photobiomodulation for Alzheimer’s Disease: Translating Basic Research to Clinical Application. <i>Journal of Alzheimer’s Disease</i> , 2020, 75, 1073-1082.	1.2	35
101	Photobiomodulation – Underlying Mechanism and Clinical Applications. <i>Journal of Clinical Medicine</i> , 2020, 9, 1724.	1.0	240
102	Red-Light (670nm) Therapy Reduces Mechanical Sensitivity and Neuronal Cell Death, and Alters Glial Responses after Spinal Cord Injury in Rats. <i>Journal of Neurotrauma</i> , 2020, 37, 2244-2260.	1.7	5
103	Tissue engineering and regenerative medicine in spinal cord injury repair. , 2020, , 291-332.		1
104	Analyses of IR stimulation influence on EEG. , 2020, , .		1
105	Management of unfavorable outcome after mild traumatic brain injury: Review of physical and cognitive rehabilitation and of psychological care in post-concussive syndrome. <i>Neurochirurgie</i> , 2021, 67, 283-289.	0.6	8
106	Does photobiomodulation influence the resting-state brain networks in young human subjects?. <i>Experimental Brain Research</i> , 2021, 239, 435-449.	0.7	7
107	Impact of Combined Photo-Biomodulation and Aerobic Exercise on Cognitive Function and Quality-of-Life in Elderly Alzheimer Patients with Anemia: A Randomized Clinical Trial. <i>International Journal of General Medicine</i> , 2021, Volume 14, 141-152.	0.8	11
108	Current application and future directions of photobiomodulation in central nervous diseases. <i>Neural Regeneration Research</i> , 2021, 16, 1177.	1.6	26
109	Unilateral transcranial photobiomodulation for opioid addiction in a clinical practice: A clinical overview and case series. <i>Journal of Psychiatric Research</i> , 2021, 133, 134-141.	1.5	5
110	Transcranial Near Infrared Light Stimulations Improve Cognition in Patients with Dementia. , 2021, 12, 954.		46
111	The effect of phototherapy on sleep during acute rehabilitation after traumatic brain injury: a randomized controlled trial. <i>Brain Injury</i> , 2021, 35, 180-188.	0.6	4

#	ARTICLE	IF	CITATIONS
112	Preclinical studies of transcranial photobiomodulation in the neurological diseases. <i>Translational Biophotonics</i> , 2021, 3, e202000024.	1.4	3
113	Photobiomodulation Therapy Ameliorates Glutamatergic Dysfunction in Mice with Chronic Unpredictable Mild Stress-Induced Depression. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-20.	1.9	13
114	Inhibiting Mitochondrial Cytochrome c Oxidase Downregulates Gene Transcription After Traumatic Brain Injury in <i>Drosophila</i> . <i>Frontiers in Physiology</i> , 2021, 12, 628777.	1.3	10
115	Exploring the Use of Intracranial and Extracranial (Remote) Photobiomodulation Devices in Parkinson's Disease: A Comparison of Direct and Indirect Systemic Stimulations. <i>Journal of Alzheimer's Disease</i> , 2021, 83, 1399-1413.	1.2	18
117	Photobiomodulation Enhances Memory Processing in Older Adults with Mild Cognitive Impairment: A Functional Near-Infrared Spectroscopy Study. <i>Journal of Alzheimer's Disease</i> , 2021, 83, 1471-1480.	1.2	27
118	Sleep Disorders and Mood, Anxiety, and Post-Traumatic Stress Disorders. <i>Nursing Clinics of North America</i> , 2021, 56, 229-247.	0.7	5
119	Improvements in clinical signs of Parkinson's disease using photobiomodulation: a prospective proof-of-concept study. <i>BMC Neurology</i> , 2021, 21, 256.	0.8	50
120	Photoneuromodulation makes a difficult cognitive task less arduous. <i>Scientific Reports</i> , 2021, 11, 13688.	1.6	9
121	Treatment of Psychiatric Problems After Traumatic Brain Injury. <i>Biological Psychiatry</i> , 2022, 91, 508-521.	0.7	5
122	Transcranial photobiomodulation in the management of brain disorders. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 221, 112207.	1.7	19
123	An Effective and Safe Novel Treatment of Opioid Use Disorder: Unilateral Transcranial Photobiomodulation. <i>Frontiers in Psychiatry</i> , 2021, 12, 713686.	1.3	5
125	Dosimetry and Clinical Efficacy of Transcranial Photobiomodulation for Major Depression Disorder: Could they Guide Dosimetry for Alzheimer's Disease?. <i>Journal of Alzheimer's Disease</i> , 2021, 83, 1453-1469.	1.2	10
126	Transcranial Laser Photobiomodulation Improves Intracellular Signaling Linked to Cell Survival, Memory and Glucose Metabolism in the Aged Brain: A Preliminary Study. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 683127.	1.8	11
127	Transcranial photobiomodulation and thermal stimulation induce distinct topographies of EEG alpha and beta power changes in healthy humans. <i>Scientific Reports</i> , 2021, 11, 18917.	1.6	26
129	Transcranial Photobiomodulation to Improve Cognition in Gulf War Illness. <i>Frontiers in Neurology</i> , 2020, 11, 574386.	1.1	10
130	Light-Emitting Diodes for Healthcare and Well-being. <i>Solid State Lighting Technology and Application Series</i> , 2019, , 485-511.	0.3	3
132	A Potential Role for Photobiomodulation Therapy in Disease Treatment and Prevention in the Era of COVID-19. , 2020, 11, 1352.		10
133	Short-term Effects of Transcranial Near-Infrared Photobiomodulation on Motor Performance in Healthy Human Subjects: An Experimental Single-Blind Randomized Clinical Trial. <i>Journal of Lasers in Medical Sciences</i> , 2019, 10, 317-323.	0.4	5

#	ARTICLE	IF	CITATIONS
134	Transcranial Near-infrared Laser Therapy in Improving Cognitive Recovery of Function Following Traumatic Brain Injury. <i>Current Neuropharmacology</i> , 2018, 16, 1320-1326.	1.4	6
135	Multi-watt near-infrared light therapy as a neuroregenerative treatment for traumatic brain injury. <i>Neural Regeneration Research</i> , 2016, 11, 563.	1.6	22
136	Physical energies to the rescue of damaged tissues. <i>World Journal of Stem Cells</i> , 2019, 11, 297-321.	1.3	16
137	Beneficial Effects of Transcranial Light Emitting Diode (LED) Therapy on Attentional Performance: An Experimental Design. <i>Iranian Red Crescent Medical Journal</i> , 2017, 19, .	0.5	9
138	Preface to The Special Issue on "Leading Edge of Neurophotonics". <i>The Review of Laser Engineering</i> , 2016, 44, 222.	0.0	0
139	Application of Photobiomodulation to Light Therapy for the Central Nervous System Disease: Control of Spreading Depolarization. <i>The Review of Laser Engineering</i> , 2016, 44, 250.	0.0	0
140	Optoacoustic theranostics. , 2018, , .		0
142	Transcranial Photobiomodulation for Anxiety Disorders and Post-traumatic Stress Disorder. <i>Current Clinical Psychiatry</i> , 2020, , 283-295.	0.2	1
143	Differential effects of photobiomodulation interval schedules on brain cytochrome c-oxidase and proto-oncogene expression. <i>Neurophotonics</i> , 2020, 7, 045011.	1.7	4
144	Transcranial Laser Therapy Does Not Improve Cognitive and Post-Traumatic Stress Disorder-Related Behavioral Traits in Rats Exposed to Repetitive Low-Level Blast Injury. <i>Neurotrauma Reports</i> , 2021, 2, 548-563.	0.5	2
146	Transcranial Photobiomodulation in Adults with High-Functioning Autism Spectrum Disorder: Positive Findings from a Proof-of-Concept Study. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2022, 40, 4-12.	0.7	10
147	Reversal of Acquired Prosopagnosia Using Quantitative Electroencephalography-Guided Laser Therapy. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2022, , .	0.7	2
148	Advanced brain age in deployment-related traumatic brain injury: A LIMBIC-CENC neuroimaging study. <i>Brain Injury</i> , 2022, 36, 662-672.	0.6	6
149	Remote Photobiomodulation Treatment for the Clinical Signs of Parkinson's Disease: A Case Series Conducted During COVID-19. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2022, 40, 112-122.	0.7	11
150	Glutamatergic System in Depression and Its Role in Neuromodulatory Techniques Optimization. <i>Frontiers in Psychiatry</i> , 2022, 13, 886918.	1.3	16
155	Transcranial photobiomodulation (laser) therapy for cognitive impairment: a review of molecular mechanisms and potential application to canine cognitive dysfunction (CCD). <i>Open Veterinary Journal</i> , 2022, 12, 256.	0.3	6
156	Immune-endocrine interactions in the pathophysiology of sleep-wake disturbances following traumatic brain injury: A narrative review. <i>Brain Research Bulletin</i> , 2022, 185, 117-128.	1.4	8
157	Nanocrystalline Yttria-Stabilized Zirconia Ceramics for Cranial Window Applications. <i>ACS Applied Bio Materials</i> , 2022, 5, 2664-2675.	2.3	0

#	ARTICLE	IF	CITATIONS
158	Photobiomodulation in Acute Traumatic Brain Injury: A Systematic Review and Meta-Analysis. <i>Journal of Neurotrauma</i> , 2023, 40, 210-227.	1.7	10
159	Shifting patterns of cellular energy production (adenosine triphosphate) over the day and key timings for the effect of optical manipulation. <i>Journal of Biophotonics</i> , 2022, 15, .	1.1	3
160	Transcranial near-infrared light in treatment of neurodegenerative diseases. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	14
161	Noninvasive Brain Treatment Modalities. , 2022, , 103-111.		0
162	Repeated transcranial photobiomodulation improves working memory of healthy older adults: behavioral outcomes of poststimulation including a three-week follow-up. <i>Neurophotonics</i> , 2022, 9, .	1.7	14
163	Photobiomodulation promotes repair following spinal cord injury by restoring neuronal mitochondrial bioenergetics via AMPK/PGC-1 β /TFAM pathway. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	6
164	Photobiomodulation for modulation of neuropathic pain and improvement of scar tissue. <i>Scars, Burns & Healing</i> , 2022, 8, 205951312211340.	0.6	3
165	Neuromodulation of brain power topography and network topology by prefrontal transcranial photobiomodulation. <i>Journal of Neural Engineering</i> , 2022, 19, 066013.	1.8	8
167	Can transcranial photobiomodulation improve cognitive function? A systematic review of human studies. <i>Ageing Research Reviews</i> , 2023, 83, 101786.	5.0	14
168	The effects of transcranial laser photobiomodulation and neuromuscular electrical stimulation in the treatment of post-stroke dysfunctions. <i>Journal of Biophotonics</i> , 2023, 16, .	1.1	4
169	Photobiomodulation improves frontal lobe cognitive functions and mental health of older adults with non-amnesic mild cognitive impairment: Case studies. <i>Frontiers in Psychology</i> , 0, 13, .	1.1	5
170	Photophysical Mechanisms of Photobiomodulation Therapy as Precision Medicine. <i>Biomedicines</i> , 2023, 11, 237.	1.4	13
171	Transcranial near-infrared laser improves postoperative neurocognitive disorder in aged mice via SIRT3/AMPK/Nrf2 pathway. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	2
172	Transcranial Photobiomodulation Treatment: Significant Improvements in Four Ex-Football Players with Possible Chronic Traumatic Encephalopathy. <i>Journal of Alzheimer's Disease Reports</i> , 2023, 7, 77-105.	1.2	9
173	Advances in photobiomodulation for cognitive improvement by near-infrared derived multiple strategies. <i>Journal of Translational Medicine</i> , 2023, 21, .	1.8	13
174	Photobiomodulation with Super-Pulsed Laser Shows Efficacy for Stroke and Aphasia: Case Studies. <i>World Journal of Neuroscience</i> , 2023, 13, 12-20.	0.1	3
175	A systematic review of the effects of transcranial photobiomodulation on brain activity in humans. <i>Reviews in the Neurosciences</i> , 2023, 34, 671-693.	1.4	6
176	Repeated Photobiomodulation Induced Reduction of Bilateral Cortical Hemodynamic Activation during a Working Memory Task in Healthy Older Adults. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2023, , 1-10.	3.9	2

#	ARTICLE	IF	CITATIONS
177	Photobiomodulation. <i>Psychiatric Clinics of North America</i> , 2023, 46, 331-348.	0.7	3
178	Stress Disorder After Blast Injury. , 2023, , 281-292.		0
179	Increased Improvement in Speech-Language Skills After Transcranial Photobiomodulation Plus Speech-Language Therapy, Compared to Speech-Language Therapy Alone: Case Report with Aphasia. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2023, 41, 234-240.	0.7	2
180	Use of either transcranial or <scp>wholeâ€body</scp> photobiomodulation treatments improves <scp>COVID</scp>â€19 brain fog. <i>Journal of Biophotonics</i> , 2023, 16, .	1.1	3
186	Photobiomodulation Therapy for Psychiatric Disorders. <i>Synthesis Lectures on Biomedical Engineering</i> , 2023, , 283-315.	0.1	0
187	Action Mechanisms of Photobiomodulation in Neuronal Cells and the Brain. <i>Synthesis Lectures on Biomedical Engineering</i> , 2023, , 49-85.	0.1	1
188	Photobiomodulation Therapy for Tnraumatic Brain Injury. <i>Synthesis Lectures on Biomedical Engineering</i> , 2023, , 259-282.	0.1	0
189	Light Penetration into Brain. <i>Synthesis Lectures on Biomedical Engineering</i> , 2023, , 33-48.	0.1	0
193	Effectiveness of photobiomodulation for people with age-related cognitive impairment: a systematic review and meta-analysis. <i>Lasers in Medical Science</i> , 2023, 38, .	1.0	0
196	Transcranial Photobiomodulation. , 2023, , 169-176.		0