# Michael R. Hamblin

## List of Publications by Citations



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|---|---|---|---|
| 782 papers | 50,736 citations | 110 h-index | 198 g-index |
| 886 ext. papers | 61,066 ext. citations | 5.7 avg, IF | 8.42 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 782 | Photodynamic therapy of cancer: an update. *Ca-A Cancer Journal for Clinicians*, **2011**, 61, 250-81 | 220.7 | 3005 |
| 781 | Photodynamic therapy and anti-tumour immunity. *Nature Reviews Cancer*, **2006**, 6, 535-45 | 31.3 | 1826 |
| 780 | Photodynamic therapy: a new antimicrobial approach to infectious disease?. *Photochemical and Photobiological Sciences*, **2004**, 3, 436-50 | 4.2 | 1397 |
| 779 | Mechanisms in photodynamic therapy: part one-photosensitizers, photochemistry and cellular localization. *Photodiagnosis and Photodynamic Therapy*, **2004**, 1, 279-93 | 3.5 | 1326 |
| 778 | New photosensitizers for photodynamic therapy. *Biochemical Journal*, **2016**, 473, 347-64 | 3.8 | 968 |
| 777 | Smart micro/nanoparticles in stimulus-responsive drug/gene delivery systems. *Chemical Society Reviews*, **2016**, 45, 1457-501 | 58.5 | 916 |
| 776 | The nuts and bolts of low-level laser (light) therapy. *Annals of Biomedical Engineering*, **2012**, 40, 516-33 | 4.7 | 746 |
| 775 | Biphasic dose response in low level light therapy. *Dose-Response*, **2009**, 7, 358-83 | 2.3 | 586 |
| 774 | Chitosan preparations for wounds and burns: antimicrobial and wound-healing effects. *Expert Review of Anti-Infective Therapy*, **2011**, 9, 857-79 | 5.5 | 569 |
| 773 | Antimicrobial strategies centered around reactive oxygen species--bactericidal antibiotics, photodynamic therapy, and beyond. *FEMS Microbiology Reviews*, **2013**, 37, 955-89 | 15.1 | 554 |
| 772 | Proposed Mechanisms of Photobiomodulation or Low-Level Light Therapy. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, | 3.8 | 530 |
| 771 | Photodynamic therapy for localized infections--state of the art. *Photodiagnosis and Photodynamic Therapy*, **2009**, 6, 170-88 | 3.5 | 513 |
| 770 | Mechanisms in photodynamic therapy: part two-cellular signaling, cell metabolism and modes of cell death. *Photodiagnosis and Photodynamic Therapy*, **2005**, 2, 1-23 | 3.5 | 454 |
| 769 | Biphasic dose response in low level light therapy - an update. *Dose-Response*, **2011**, 9, 602-18 | 2.3 | 443 |
| 768 | Cell death pathways in photodynamic therapy of cancer. *Cancers*, **2011**, 3, 2516-39 | 6.6 | 421 |
| 767 | Antimicrobial photodynamic inactivation: a bright new technique to kill resistant microbes. *Current Opinion in Microbiology*, **2016**, 33, 67-73 | 7.9 | 403 |
| 766 | Acute and impaired wound healing: pathophysiology and current methods for drug delivery, part 1: normal and chronic wounds: biology, causes, and approaches to care. *Advances in Skin and Wound Care*, **2012**, 25, 304-14 | 1.5 | 352 |

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| 765 | Photodynamic therapy for infections: clinical applications. *Lasers in Surgery and Medicine*, **2011**, 43, 755-67 | 3.6 | 347 |
| 764 | Mechanisms in photodynamic therapy: Part three-Photosensitizer pharmacokinetics, biodistribution, tumor localization and modes of tumor destruction. *Photodiagnosis and Photodynamic Therapy*, **2005**, 2, 91-106 | 3.5 | 340 |
| 763 | Type I and Type II Photosensitized Oxidation Reactions: Guidelines and Mechanistic Pathways. *Photochemistry and Photobiology*, **2017**, 93, 912-919 | 3.6 | 338 |
| 762 | Photoantimicrobials-are we afraid of the light?. *Lancet Infectious Diseases, The*, **2017**, 17, e49-e55 | 25.5 | 334 |
| 761 | Effect of cell-photosensitizer binding and cell density on microbial photoinactivation. *Antimicrobial Agents and Chemotherapy*, **2005**, 49, 2329-35 | 5.9 | 323 |
| 760 | COVID-19: Transmission, prevention, and potential therapeutic opportunities. *Clinica Chimica Acta*, **2020**, 508, 254-266 | 6.2 | 319 |
| 759 | Antimicrobial photodynamic therapy to kill Gram-negative bacteria. *Recent Patents on Anti-infective Drug Discovery*, **2013**, 8, 108-20 | 1.6 | 318 |
| 758 | Mechanisms and applications of the anti-inflammatory effects of photobiomodulation. *AIMS Biophysics*, **2017**, 4, 337-361 | 0.8 | 313 |
| 757 | Low-level laser (light) therapy (LLLT) in skin: stimulating, healing, restoring. *Seminars in Cutaneous Medicine and Surgery*, **2013**, 32, 41-52 | 1.4 | 301 |
| 756 | Chitin and Chitosan: Production and Application of Versatile Biomedical Nanomaterials. *International Journal of Advanced Research*, **2016**, 4, 411-427 | 1.5 | 289 |
| 755 | Low-level laser therapy activates NF-kB via generation of reactive oxygen species in mouse embryonic fibroblasts. *PLoS ONE*, **2011**, 6, e22453 | 3.7 | 282 |
| 754 | Photodynamic therapy targeted to pathogens. *International Journal of Immunopathology and Pharmacology*, **2004**, 17, 245-54 | 3 | 268 |
| 753 | Smart Nanostructures for Cargo Delivery: Uncaging and Activating by Light. *Journal of the American Chemical Society*, **2017**, 139, 4584-4610 | 16.4 | 266 |
| 752 | Molecular and Translational Classifications of DAMPs in Immunogenic Cell Death. *Frontiers in Immunology*, **2015**, 6, 588 | 8.4 | 239 |
| 751 | Mannose-binding lectin-deficient mice are susceptible to infection with Staphylococcus aureus. *Journal of Experimental Medicine*, **2004**, 199, 1379-90 | 16.6 | 236 |
| 750 | Shining light on the head: Photobiomodulation for brain disorders. *BBA Clinical*, **2016**, 6, 113-124 | | 228 |
| 749 | Type I and Type II mechanisms of antimicrobial photodynamic therapy: an in vitro study on gram-negative and gram-positive bacteria. *Lasers in Surgery and Medicine*, **2012**, 44, 490-9 | 3.6 | 221 |
| 748 | Photodynamic therapy with fullerenes. *Photochemical and Photobiological Sciences*, **2007**, 6, 1139-49 | 4.2 | 219 |

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| 747 | Targeted antimicrobial photochemotherapy. *Antimicrobial Agents and Chemotherapy*, **1998**, 42, 2595-601 | 5.9 | 212 |
| 746 | Temperature-Responsive Smart Nanocarriers for Delivery Of Therapeutic Agents: Applications and Recent Advances. *ACS Applied Materials & Interfaces*, **2016**, 8, 21107-33 | 9.5 | 211 |
| 745 | Role of low-level laser therapy in neurorehabilitation. *PM and R*, **2010**, 2, S292-305 | 2.2 | 211 |
| 744 | Nanopharmaceuticals and nanomedicines currently on the market: challenges and opportunities. *Nanomedicine*, **2019**, 14, 93-126 | 5.6 | 211 |
| 743 | Mechanisms and Mitochondrial Redox Signaling in Photobiomodulation. *Photochemistry and Photobiology*, **2018**, 94, 199-212 | 3.6 | 207 |
| 742 | Cationic fullerenes are effective and selective antimicrobial photosensitizers. *Chemistry and Biology* , **2005**, 12, 1127-35 | | 201 |
| 741 | Polycationic photosensitizer conjugates: effects of chain length and Gram classification on the photodynamic inactivation of bacteria. *Journal of Antimicrobial Chemotherapy*, **2002**, 49, 941-51 | 5.1 | 199 |
| 740 | Nanomedicine and advanced technologies for burns: Preventing infection and facilitating wound healing. *Advanced Drug Delivery Reviews*, **2018**, 123, 33-64 | 18.5 | 194 |
| 739 | Blue light for infectious diseases: Propionibacterium acnes, Helicobacter pylori, and beyond?. *Drug Resistance Updates*, **2012**, 15, 223-36 | 23.2 | 191 |
| 738 | Use of chitosan bandage to prevent fatal infections developing from highly contaminated wounds in mice. *Biomaterials*, **2006**, 27, 4157-64 | 15.6 | 191 |
| 737 | Functionalized fullerenes mediate photodynamic killing of cancer cells: Type I versus Type II photochemical mechanism. *Free Radical Biology and Medicine*, **2007**, 43, 711-9 | 7.8 | 188 |
| 736 | PAMAM dendrimers as efficient drug and gene delivery nanosystems for cancer therapy. *Applied Materials Today*, **2018**, 12, 177-190 | 6.6 | 188 |
| 735 | All you need is light: antimicrobial photoinactivation as an evolving and emerging discovery strategy against infectious disease. *Virulence*, **2011**, 2, 509-20 | 4.7 | 184 |
| 734 | Psychological benefits 2 and 4 weeks after a single treatment with near infrared light to the forehead: a pilot study of 10 patients with major depression and anxiety. *Behavioral and Brain Functions*, **2009**, 5, 46 | 4.1 | 184 |
| 733 | Point-of-care microfluidic devices for pathogen detection. *Biosensors and Bioelectronics*, **2018**, 117, 112-128 | 10.8 | 179 |
| 732 | Antimicrobial Photodynamic Therapy to Control Clinically Relevant Biofilm Infections. *Frontiers in Microbiology*, **2018**, 9, 1299 | 5.7 | 177 |
| 731 | Antimicrobial photodynamic therapy combined with conventional endodontic treatment to eliminate root canal biofilm infection. *Lasers in Surgery and Medicine*, **2007**, 39, 59-66 | 3.6 | 174 |
| 730 | Carbon based nanomaterials for tissue engineering of bone: Building new bone on small black scaffolds: A review. *Journal of Advanced Research*, **2019**, 18, 185-201 | 13 | 173 |

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| 729 | Rapid control of wound infections by targeted photodynamic therapy monitored by in vivo bioluminescence imaging. *Photochemistry and Photobiology*, **2002**, 75, 51-7 | 3.6 | 173 |
| 728 | Photodynamic therapy with fullerenes in vivo: reality or a dream?. *Nanomedicine*, **2011**, 6, 1813-25 | 5.6 | 171 |
| 727 | Antimicrobial effects of photodynamic therapy on patients with necrotic pulps and periapical lesion. *Journal of Endodontics*, **2008**, 34, 138-42 | 4.7 | 171 |
| 726 | Effect of pulsing in low-level light therapy. *Lasers in Surgery and Medicine*, **2010**, 42, 450-66 | 3.6 | 169 |
| 725 | Improved cognitive function after transcranial, light-emitting diode treatments in chronic, traumatic brain injury: two case reports. *Photomedicine and Laser Surgery*, **2011**, 29, 351-8 | | 166 |
| 724 | Stimulation of anti-tumor immunity by photodynamic therapy. *Expert Review of Clinical Immunology* , **2011**, 7, 75-91 | 5.1 | 162 |
| 723 | Uptake pathways of anionic and cationic photosensitizers into bacteria. *Photochemical and Photobiological Sciences*, **2009**, 8, 788-95 | 4.2 | 162 |
| 722 | Photodynamic therapy plus low-dose cyclophosphamide generates antitumor immunity in a mouse model. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 5495-500 | 11.5 | 162 |
| 721 | Helicobacter pylori accumulates photoactive porphyrins and is killed by visible light. *Antimicrobial Agents and Chemotherapy*, **2005**, 49, 2822-7 | 5.9 | 161 |
| 720 | Concepts and principles of photodynamic therapy as an alternative antifungal discovery platform. *Frontiers in Microbiology*, **2012**, 3, 120 | 5.7 | 158 |
| 719 | Albumin nanostructures as advanced drug delivery systems. *Expert Opinion on Drug Delivery*, **2016**, 13, 1609-1623 | 8 | 157 |
| 718 | Photoactivation of endogenous latent transforming growth factor-β directs dental stem cell differentiation for regeneration. *Science Translational Medicine*, **2014**, 6, 238ra69 | 17.5 | 156 |
| 717 | Biological effects and medical applications of infrared radiation. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 170, 197-207 | 6.7 | 155 |
| 716 | Topical antimicrobials for burn wound infections. *Recent Patents on Anti-infective Drug Discovery*, **2010**, 5, 124-51 | 1.6 | 155 |
| 715 | Photodynamic therapy for methicillin-resistant Staphylococcus aureus infection in a mouse skin abrasion model. *Lasers in Surgery and Medicine*, **2010**, 42, 38-44 | 3.6 | 151 |
| 714 | Phenothiazinium antimicrobial photosensitizers are substrates of bacterial multidrug resistance pumps. *Antimicrobial Agents and Chemotherapy*, **2006**, 50, 196-203 | 5.9 | 150 |
| 713 | Stimulus-responsive polymeric nanogels as smart drug delivery systems. *Acta Biomaterialia*, **2019**, 92, 1-18 | 10.8 | 149 |
| 712 | Light based anti-infectives: ultraviolet C irradiation, photodynamic therapy, blue light, and beyond. *Current Opinion in Pharmacology*, **2013**, 13, 731-62 | 5.1 | 147 |

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| 711 | Mechanisms of low level light therapy **2006**, 6140, 614001 | | 147 |
| 710 | Effects of growth phase and extracellular slime on photodynamic inactivation of gram-positive pathogenic bacteria. *Antimicrobial Agents and Chemotherapy*, **2004**, 48, 2173-8 | 5.9 | 147 |
| 709 | Significant improvements in cognitive performance post-transcranial, red/near-infrared light-emitting diode treatments in chronic, mild traumatic brain injury: open-protocol study. *Journal of Neurotrauma*, **2014**, 31, 1008-17 | 5.4 | 146 |
| 708 | Can microbial cells develop resistance to oxidative stress in antimicrobial photodynamic inactivation?. *Drug Resistance Updates*, **2017**, 31, 31-42 | 23.2 | 145 |
| 707 | The immune system and COVID-19: Friend or foe?. *Life Sciences*, **2020**, 256, 117900 | 6.8 | 142 |
| 706 | Noble metal nanoparticles in biosensors: recent studies and applications. *Nanotechnology Reviews*, **2017**, 6, 301-329 | 6.3 | 141 |
| 705 | Cytoplasmic molecular delivery with shock waves: importance of impulse. *Biophysical Journal*, **2000**, 79, 1821-32 | 2.9 | 141 |
| 704 | Protease-stable polycationic photosensitizer conjugates between polyethyleneimine and chlorin(e6) for broad-spectrum antimicrobial photoinactivation. *Antimicrobial Agents and Chemotherapy*, **2006**, 50, 1402-10 | 5.9 | 140 |
| 703 | Tumor cell survival pathways activated by photodynamic therapy: a molecular basis for pharmacological inhibition strategies. *Cancer and Metastasis Reviews*, **2015**, 34, 643-90 | 9.6 | 138 |
| 702 | Photodynamic therapy for Staphylococcus aureus infected burn wounds in mice. *Photochemical and Photobiological Sciences*, **2005**, 4, 503-9 | 4.2 | 137 |
| 701 | Optical monitoring and treatment of potentially lethal wound infections in vivo. *Journal of Infectious Diseases*, **2003**, 187, 1717-25 | 7 | 137 |
| 700 | Brain Photobiomodulation Therapy: a Narrative Review. *Molecular Neurobiology*, **2018**, 55, 6601-6636 | 6.2 | 136 |
| 699 | Efficacy and safety of a low-level laser device in the treatment of male and female pattern hair loss: a multicenter, randomized, sham device-controlled, double-blind study. *American Journal of Clinical Dermatology*, **2014**, 15, 115-27 | 7.1 | 136 |
| 698 | The Use of Low Level Laser Therapy (LLLT) For Musculoskeletal Pain. *MOJ Orthopedics & Rheumatology*, **2015**, 2, | 2 | 136 |
| 697 | On the mechanism of the tumour-localising effect in photodynamic therapy. *Journal of Photochemistry and Photobiology B: Biology*, **1994**, 23, 3-8 | 6.7 | 133 |
| 696 | Blue light rescues mice from potentially fatal Pseudomonas aeruginosa burn infection: efficacy, safety, and mechanism of action. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 1238-45 | 5.9 | 132 |
| 695 | Can regenerative medicine and nanotechnology combine to heal wounds? The search for the ideal wound dressing. *Nanomedicine*, **2017**, 12, 2403-2422 | 5.6 | 130 |
| 694 | Low-level laser (light) therapy (LLLT) for treatment of hair loss. *Lasers in Surgery and Medicine*, **2014** , 46, 144-51 | 3.6 | 129 |

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| 693 | Synergistic combination of chitosan acetate with nanoparticle silver as a topical antimicrobial: efficacy against bacterial burn infections. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 3432-8 | 5.9 | 129 |
| 692 | Low-level light stimulates excisional wound healing in mice. *Lasers in Surgery and Medicine*, **2007**, 39, 706-15 | 3.6 | 129 |
| 691 | pH-Sensitive stimulus-responsive nanocarriers for targeted delivery of therapeutic agents. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2016**, 8, 696-716 | 9.2 | 129 |
| 690 | Low-level laser (light) therapy (LLLT) on muscle tissue: performance, fatigue and repair benefited by the power of light. *Photonics & Lasers in Medicine*, **2012**, 1, 267-286 | | 127 |
| 689 | Comparison of therapeutic effects between pulsed and continuous wave 810-nm wavelength laser irradiation for traumatic brain injury in mice. *PLoS ONE*, **2011**, 6, e26212 | 3.7 | 127 |
| 688 | Low-level laser therapy/photobiomodulation in the management of side effects of chemoradiation therapy in head and neck cancer: part 2: proposed applications and treatment protocols. *Supportive Care in Cancer*, **2016**, 24, 2793-805 | 3.9 | 126 |
| 687 | Targeted photodynamic therapy of established soft-tissue infections in mice. *Photochemical and Photobiological Sciences*, **2004**, 3, 451-8 | 4.2 | 124 |
| 686 | Antimicrobial photodynamic inactivation in nanomedicine: small light strides against bad bugs. *Nanomedicine*, **2015**, 10, 2379-404 | 5.6 | 123 |
| 685 | Acute and impaired wound healing: pathophysiology and current methods for drug delivery, part 2: role of growth factors in normal and pathological wound healing: therapeutic potential and methods of delivery. *Advances in Skin and Wound Care*, **2012**, 25, 349-70 | 1.5 | 123 |
| 684 | Antimicrobial blue light inactivation of pathogenic microbes: State of the art. *Drug Resistance Updates*, **2017**, 33-35, 1-22 | 23.2 | 120 |
| 683 | Ultraviolet C irradiation: an alternative antimicrobial approach to localized infections?. *Expert Review of Anti-Infective Therapy*, **2012**, 10, 185-95 | 5.5 | 118 |
| 682 | Low level laser therapy/photobiomodulation in the management of side effects of chemoradiation therapy in head and neck cancer: part 1: mechanisms of action, dosimetric, and safety considerations. *Supportive Care in Cancer*, **2016**, 24, 2781-92 | 3.9 | 116 |
| 681 | Photoactivated rose bengal functionalized chitosan nanoparticles produce antibacterial/biofilm activity and stabilize dentin-collagen. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 491-501 | 6 | 115 |
| 680 | Photodynamic therapy for Acinetobacter baumannii burn infections in mice. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 3929-34 | 5.9 | 115 |
| 679 | Physical energy for drug delivery; poration, concentration and activation. *Advanced Drug Delivery Reviews*, **2014**, 71, 98-114 | 18.5 | 114 |
| 678 | Dose response effects of 810 nm laser light on mouse primary cortical neurons. *Lasers in Surgery and Medicine*, **2011**, 43, 851-9 | 3.6 | 114 |
| 677 | Mesenchymal stem cell-derived exosomes: a new therapeutic approach to osteoarthritis?. *Stem Cell Research and Therapy*, **2019**, 10, 340 | 8.3 | 113 |
| 676 | Far infrared radiation (FIR): its biological effects and medical applications. *Photonics & Lasers in Medicine*, **2012**, 4, 255-266 | | 112 |

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| 675 | Carbon nanotubes part II: a remarkable carrier for drug and gene delivery. *Expert Opinion on Drug Delivery*, **2015**, 12, 1089-105 | 8 | 111 |
| 674 | Mechanisms and Effects of Transcranial Direct Current Stimulation. *Dose-Response*, **2017**, 15, 1559325816685467 | 2.9 | 110 |
| 673 | Photodynamic inactivation of biofilm: taking a lightly colored approach to stubborn infection. *Expert Review of Anti-Infective Therapy*, **2013**, 11, 669-93 | 5.5 | 110 |
| 672 | Low level laser therapy increases angiogenesis in a model of ischemic skin flap in rats mediated by VEGF, HIF-1 and MMP-2. *Journal of Photochemistry and Photobiology B: Biology*, **2013**, 125, 164-70 | 6.7 | 110 |
| 671 | Stable synthetic cationic bacteriochlorins as selective antimicrobial photosensitizers. *Antimicrobial Agents and Chemotherapy*, **2010**, 54, 3834-41 | 5.9 | 110 |
| 670 | Low-level laser therapy for closed-head traumatic brain injury in mice: effect of different wavelengths. *Lasers in Surgery and Medicine*, **2012**, 44, 218-26 | 3.6 | 108 |
| 669 | Circular RNAs and gastrointestinal cancers: Epigenetic regulators with a prognostic and therapeutic role. *Critical Reviews in Oncology/Hematology*, **2020**, 145, 102854 | 7 | 107 |
| 668 | 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 | | 105 |
| 667 | Photodynamic therapy with a cationic functionalized fullerene rescues mice from fatal wound infections. *Nanomedicine*, **2010**, 5, 1525-33 | 5.6 | 105 |
| 666 | Photodynamic therapy in dermatology beyond non-melanoma cancer: An update. *Photodiagnosis and Photodynamic Therapy*, **2017**, 19, 140-152 | 3.5 | 104 |
| 665 | Photobiomodulation (blue and green light) encourages osteoblastic-differentiation of human adipose-derived stem cells: role of intracellular calcium and light-gated ion channels. *Scientific Reports*, **2016**, 6, 33719 | 4.9 | 104 |
| 664 | Antimicrobial and efflux pump inhibitory activity of caffeoylquinic acids from Artemisia absinthium against gram-positive pathogenic bacteria. *PLoS ONE*, **2011**, 6, e18127 | 3.7 | 104 |
| 663 | Advances in antimicrobial photodynamic inactivation at the nanoscale. *Nanophotonics*, **2017**, 6, 853-879 | 6.3 | 103 |
| 662 | Antimicrobial photodynamic inactivation and photodynamic therapy for infections. *Methods in Molecular Biology*, **2010**, 635, 155-73 | 1.4 | 103 |
| 661 | Can nanotechnology potentiate photodynamic therapy?. *Nanotechnology Reviews*, **2012**, 1, 111-146 | 6.3 | 102 |
| 660 | Photodynamic therapy of tumors can lead to development of systemic antigen-specific immune response. *PLoS ONE*, **2010**, 5, e15194 | 3.7 | 101 |
| 659 | Low-level laser therapy for traumatic brain injury in mice increases brain derived neurotrophic factor (BDNF) and synaptogenesis. *Journal of Biophotonics*, **2015**, 8, 502-11 | 3.1 | 100 |
| 658 | Options and Limitations in Clinical Investigation of Bacterial Biofilms. *Clinical Microbiology Reviews*, **2018**, 31, | 34 | 100 |

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| 657 | Chitosan acetate bandage as a topical antimicrobial dressing for infected burns. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 393-400 | 5.9 | 100 |
| 656 | Infrared and skin: Friend or foe. *Journal of Photochemistry and Photobiology B: Biology*, **2016**, 155, 78-85 | 6.7 | 99 |
| 655 | Effect of red and near-infrared wavelengths on low-level laser (light) therapy-induced healing of partial-thickness dermal abrasion in mice. *Lasers in Medical Science*, **2014**, 29, 257-65 | 3.1 | 99 |
| 654 | Immune response after photodynamic therapy increases anti-cancer and anti-bacterial effects. *World Journal of Immunology*, **2014**, 4, 1-11 | 0.5 | 99 |
| 653 | Imidazole metalloporphyrins as photosensitizers for photodynamic therapy: role of molecular charge, central metal and hydroxyl radical production. *Cancer Letters*, **2009**, 282, 63-76 | 9.9 | 99 |
| 652 | Inhibitors of bacterial multidrug efflux pumps potentiate antimicrobial photoinactivation. *Antimicrobial Agents and Chemotherapy*, **2008**, 52, 3202-9 | 5.9 | 99 |
| 651 | Low-level laser therapy for zymosan-induced arthritis in rats: Importance of illumination time. *Lasers in Surgery and Medicine*, **2007**, 39, 543-50 | 3.6 | 99 |
| 650 | Pathogenic role of exosomes and microRNAs in HPV-mediated inflammation and cervical cancer: A review. *International Journal of Cancer*, **2020**, 146, 305-320 | 7.5 | 99 |
| 649 | Bacterial photodynamic inactivation mediated by methylene blue and red light is enhanced by synergistic effect of potassium iodide. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 5203-12 | 5.9 | 98 |
| 648 | Photobiomodulation: lasers vs. light emitting diodes?. *Photochemical and Photobiological Sciences*, **2018**, 17, 1003-1017 | 4.2 | 98 |
| 647 | Antimicrobial blue light therapy for multidrug-resistant Acinetobacter baumannii infection in a mouse burn model: implications for prophylaxis and treatment of combat-related wound infections. *Journal of Infectious Diseases*, **2014**, 209, 1963-71 | 7 | 95 |
| 646 | Cationic porphycenes as potential photosensitizers for antimicrobial photodynamic therapy. *Journal of Medicinal Chemistry*, **2010**, 53, 7796-803 | 8.3 | 95 |
| 645 | Helicobacter pylori in patients can be killed by visible light. *Lasers in Surgery and Medicine*, **2005**, 36, 260-5 | 3.6 | 95 |
| 644 | Microbial efflux systems and inhibitors: approaches to drug discovery and the challenge of clinical implementation. *Open Microbiology Journal*, **2013**, 7, 34-52 | 0.8 | 94 |
| 643 | Transcranial low-level laser therapy improves neurological performance in traumatic brain injury in mice: effect of treatment repetition regimen. *PLoS ONE*, **2013**, 8, e53454 | 3.7 | 94 |
| 642 | Characterization of plant-derived saponin natural products against Candida albicans. *ACS Chemical Biology*, **2010**, 5, 321-32 | 4.9 | 94 |
| 641 | Innovative cationic fullerenes as broad-spectrum light-activated antimicrobials. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2010**, 6, 442-52 | 6 | 94 |
| 640 | The effect of charge on cellular uptake and phototoxicity of polylysine chlorin(e6) conjugates. *Photochemistry and Photobiology*, **1997**, 65, 723-9 | 3.6 | 94 |

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| 639 | Monitoring photodynamic therapy of localized infections by bioluminescence imaging of genetically engineered bacteria. *Journal of Photochemistry and Photobiology B: Biology*, **2005**, 81, 15-25 | 6.7 | 93 |
| 638 | The urgent need for integrated science to fight COVID-19 pandemic and beyond. *Journal of Translational Medicine*, **2020**, 18, 205 | 8.5 | 92 |
| 637 | Strategies to potentiate antimicrobial photoinactivation by overcoming resistant phenotypes. *Photochemistry and Photobiology*, **2012**, 88, 499-511 | 3.6 | 92 |
| 636 | Low-level laser (light) therapy increases mitochondrial membrane potential and ATP synthesis in C2C12 myotubes with a peak response at 3-6 h. *Photochemistry and Photobiology*, **2015**, 91, 411-6 | 3.6 | 91 |
| 635 | Nanocaged platforms: modification, drug delivery and nanotoxicity. Opening synthetic cages to release the tiger. *Nanoscale*, **2017**, 9, 1356-1392 | 7.7 | 89 |
| 634 | Accelerated wound healing in a diabetic rat model using decellularized dermal matrix and human umbilical cord perivascular cells. *Acta Biomaterialia*, **2016**, 45, 234-246 | 10.8 | 89 |
| 633 | Paradoxical potentiation of methylene blue-mediated antimicrobial photodynamic inactivation by sodium azide: role of ambient oxygen and azide radicals. *Free Radical Biology and Medicine*, **2012**, 53, 2062-71 | 7.8 | 88 |
| 632 | In vitro photodynamic therapy and quantitative structure-activity relationship studies with stable synthetic near-infrared-absorbing bacteriochlorin photosensitizers. *Journal of Medicinal Chemistry*, **2010**, 53, 4018-27 | 8.3 | 88 |
| 631 | Animal models of external traumatic wound infections. *Virulence*, **2011**, 2, 296-315 | 4.7 | 88 |
| 630 | Antimicrobial blue light inactivation of Pseudomonas aeruginosa by photo-excitation of endogenous porphyrins: In vitro and in vivo studies. *Lasers in Surgery and Medicine*, **2016**, 48, 562-8 | 3.6 | 88 |
| 629 | Photobiomodulation of human adipose-derived stem cells using 810nm and 980nm lasers operates via different mechanisms of action. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 441-449 | 4 | 87 |
| 628 | Review of transcranial photobiomodulation for major depressive disorder: targeting brain metabolism, inflammation, oxidative stress, and neurogenesis. *Neurophotonics*, **2016**, 3, 031404 | 3.9 | 86 |
| 627 | Bacteriophages and phage-inspired nanocarriers for targeted delivery of therapeutic cargos. *Advanced Drug Delivery Reviews*, **2016**, 106, 45-62 | 18.5 | 86 |
| 626 | Low-level laser therapy (LLLT) reduces oxidative stress in primary cortical neurons in vitro. *Journal of Biophotonics*, **2013**, 6, 829-38 | 3.1 | 86 |
| 625 | Potential for transcranial laser or LED therapy to treat stroke, traumatic brain injury, and neurodegenerative disease. *Photomedicine and Laser Surgery*, **2011**, 29, 443-6 | | 86 |
| 624 | Proteasome inhibition potentiates antitumor effects of photodynamic therapy in mice through induction of endoplasmic reticulum stress and unfolded protein response. *Cancer Research*, **2009**, 69, 4235-43 | 10.1 | 86 |
| 623 | Design features for optimization of tetrapyrrole macrocycles as antimicrobial and anticancer photosensitizers. *Chemical Biology and Drug Design*, **2017**, 89, 192-206 | 2.9 | 85 |
| 622 | Efflux pump inhibitor potentiates antimicrobial photodynamic inactivation of Enterococcus faecalis biofilm. *Photochemistry and Photobiology*, **2010**, 86, 1343-9 | 3.6 | 85 |

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| 621 | Effect of chitosan acetate bandage on wound healing in infected and noninfected wounds in mice. *Wound Repair and Regeneration*, **2008**, 16, 425-31 | 3.6 | 85 |
| 620 | Deficiency of mannose-binding lectin greatly increases susceptibility to postburn infection with Pseudomonas aeruginosa. *Journal of Immunology*, **2006**, 176, 1769-75 | 5.3 | 85 |
| 619 | Potentiation of antimicrobial photodynamic inactivation mediated by a cationic fullerene by added iodide: in vitro and in vivo studies. *Nanomedicine*, **2015**, 10, 603-14 | 5.6 | 84 |
| 618 | Melanoma resistance to photodynamic therapy: new insights. *Biological Chemistry*, **2013**, 394, 239-50 | 4.5 | 84 |
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