

Robert W Redmond

List of Publications by Year in descending order

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89
papers

5,275
citations

87888

38
h-index

88630

70
g-index

90
all docs

90
docs citations

90
times ranked

5749
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Activated Vascular Anastomosis. <i>Surgical Innovation</i> , 2023, 30, 143-149.	0.9	1
2	Light-activated photosealing with human amniotic membrane strengthens bowel anastomosis in a hypotensive, trauma-relevant swine model. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 407-417.	2.1	4
3	A Photosealed Cap Prevents Disorganized Axonal Regeneration and Neuroma following Nerve Transection in Rats. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2022, 10, e4168.	0.6	6
4	Photochemical Tissue Passivation of Arteriovenous Grafts Prevents Long-Term Development of Intimal Hyperplasia in a Swine Model. <i>Journal of Surgical Research</i> , 2020, 253, 280-287.	1.6	3
5	Photochemical Tissue Passivation Prevents Contracture of Full Thickness Wounds in Mice. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 910-919.	2.1	3
6	Medical Applications of Rose Bengal and Riboflavin-Photosensitized Protein Crosslinking. <i>Photochemistry and Photobiology</i> , 2019, 95, 1097-1115.	2.5	47
7	Photochemical Tissue Passivation Attenuates AV Fistula Intimal Hyperplasia. <i>Annals of Surgery</i> , 2018, 267, 183-188.	4.2	8
8	Wide-Field Functional Microscopy of Peripheral Nerve Injury and Regeneration. <i>Scientific Reports</i> , 2018, 8, 14004.	3.3	23
9	Prevention of vein graft intimal hyperplasia with photochemical tissue passivation. <i>Journal of Vascular Surgery</i> , 2017, 65, 190-196.	1.1	12
10	An intraluminal stent facilitates light-activated vascular anastomosis. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 83, S43-S49.	2.1	6
11	Improving Outcomes in Immediate and Delayed Nerve Grafting of Peripheral Nerve Gaps Using Light-Activated Sealing of Neurorrhaphy Sites with Human Amnion Wraps. <i>Plastic and Reconstructive Surgery</i> , 2016, 137, 887-895.	1.4	17
12	A light-activated amnion wrap strengthens colonic anastomosis and reduces peri-anastomotic adhesions. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 530-537.	2.1	16
13	No midterm advantages in the middle term using small intestinal submucosa and human amniotic membrane in Achilles tendon transverse tenotomy. <i>Journal of Orthopaedic Surgery and Research</i> , 2016, 11, 125.	2.3	8
14	Light-Activated Sealing of Acellular Nerve Allografts following Nerve Gap Injury. <i>Journal of Reconstructive Microsurgery</i> , 2016, 32, 421-430.	1.8	12
15	Photochemical Tissue Passivation Reduces Vein Graft Intimal Hyperplasia in a Swine Model of Arteriovenous Bypass Grafting. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	15
16	Hyaline Articular Matrix Formed by Dynamic Self-Regenerating Cartilage and Hydrogels. <i>Tissue Engineering - Part A</i> , 2016, 22, 962-970.	3.1	6
17	Bioabsorbable polymer optical waveguides for deep-tissue photomedicine. <i>Nature Communications</i> , 2016, 7, 10374.	12.8	173
18	Light-activated wound healing and tissue modification. <i>Biochemist</i> , 2016, 38, 20-23.	0.5	0

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19	Light-Activated sealing of skin wounds. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 17-29.	2.1	29
20	Light-Activated Sealing of Nerve Graft Coaptation Sites Improves Outcome following Large Gap Peripheral Nerve Injury. <i>Plastic and Reconstructive Surgery</i> , 2015, 136, 739-750.	1.4	25
21	Enhancing the stiffness of collagen hydrogels for delivery of encapsulated chondrocytes to articular lesions for cartilage regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1332-1338.	4.0	34
22	Why is Rose Bengal More Phototoxic to Fibroblasts <i>In Vitro</i> Than <i>In Vivo</i> ? <i>Photochemistry and Photobiology</i> , 2014, 90, 297-305.	2.5	18
23	Melanocytes Are Selectively Vulnerable to UVA-Mediated Bystander Oxidative Signaling. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1083-1090.	0.7	24
24	Prevention of Capsular Contracture with Photochemical Tissue Passivation. <i>Plastic and Reconstructive Surgery</i> , 2014, 133, 571-577.	1.4	20
25	Use of a Light-Activated Stent for Sutureless Vascular Anastomosis. <i>Journal of Hand Surgery</i> , 2013, 38, e28-e29.	1.6	0
26	Collagen Cross-Linking Using Rose Bengal and Green Light to Increase Corneal Stiffness. , 2013, 54, 3426.		134
27	A photoactivated nanofiber graft material for augmented Achilles tendon repair. <i>Lasers in Surgery and Medicine</i> , 2012, 44, 645-652.	2.1	42
28	Light-Activated sutureless closure of wounds in thin skin. <i>Lasers in Surgery and Medicine</i> , 2012, 44, 163-167.	2.1	29
29	Photochemical repair of vocal fold microflap defects. <i>Laryngoscope</i> , 2011, 121, 1244-1251.	2.0	24
30	Photochemical tissue bonding: A potential strategy for treating limbal stem cell deficiency. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 433-442.	2.1	25
31	A light-Activated method for repair of corneal surface defects. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 481-489.	2.1	26
32	Light-Initiated Bonding of Amniotic Membrane to Cornea. , 2011, 52, 9470.		50
33	Phototoxicity is not associated with photochemical tissue bonding of skin. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 123-131.	2.1	64
34	Two-photon irradiation of an intracellular singlet oxygen photosensitizer: Achieving localized sub-cellular excitation in spatially-resolved experiments. <i>Free Radical Research</i> , 2010, 44, 1383-1397.	3.3	33
35	Phototoxicity of Hoechst 33342 in time-lapse fluorescence microscopy. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 1634-1639.	2.9	84
36	Engineering Cartilage in a Photochemically Crosslinked Collagen Gel. <i>Journal of Knee Surgery</i> , 2009, 22, 72-81.	1.6	24

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37	Improving electrophysiologic and histologic outcomes by photochemically sealing amnion to the peripheral nerve repair site. <i>Surgery</i> , 2009, 145, 313-321.	1.9	62
38	Real-time imaging of novel spatial and temporal responses to photodynamic stress. <i>Free Radical Biology and Medicine</i> , 2009, 47, 283-290.	2.9	23
39	Optical probing and imaging of live cells using SERS labels. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1-5.	2.5	143
40	Photochemical Sealing Improves Outcome Following Peripheral Neurotomy. <i>Journal of Surgical Research</i> , 2009, 151, 33-39.	1.6	51
41	Spatial and temporal dynamics of in vitro photodynamic cell killing: extracellular hydrogen peroxide mediates neighbouring cell death. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 457-464.	2.9	43
42	Bystander Effects Induced by Diffusing Mediators after Photodynamic Stress. <i>Radiation Research</i> , 2009, 172, 74-81.	1.5	53
43	Preparation and Integration of Human Amnion Nerve Conduits Using a Light-Activated Technique. <i>Plastic and Reconstructive Surgery</i> , 2009, 124, 428-437.	1.4	34
44	Photochemical Tissue Bonding: A Promising Technique for Peripheral Nerve Repair. <i>Journal of Surgical Research</i> , 2007, 143, 224-229.	1.6	60
45	Photochemically Cross-Linked Collagen Gels as Three-Dimensional Scaffolds for Tissue Engineering. <i>Tissue Engineering</i> , 2007, 13, 1995-2001.	4.6	111
46	Microvascular anastomosis using a photochemical tissue bonding technique. <i>Lasers in Surgery and Medicine</i> , 2007, 39, 716-722.	2.1	76
47	Time-lapse microscopy studies of bystander effects induced by photosensitization. , 2006, , .		0
48	Spatially Resolved Cellular Responses to Singlet Oxygen. <i>Photochemistry and Photobiology</i> , 2006, 82, 1178.	2.5	368
49	Evaluation of photochemical tissue bonding for closure of skin incisions and excisions. <i>Lasers in Surgery and Medicine</i> , 2005, 37, 264-270.	2.1	74
50	Photochemical repair of Achilles tendon rupture in a rat model. <i>Journal of Surgical Research</i> , 2005, 124, 274-279.	1.6	50
51	Photochemical Tissue Bonding of Apligraf to Skin. <i>Wound Repair and Regeneration</i> , 2005, 13, A28-A48.	3.0	0
52	Photochemical Keratodesmos for Bonding Corneal Incisions. , 2004, 45, 2177.		41
53	Photochemical keratodesmos as an adjunct to sutures for bonding penetrating keratoplasty corneal incisions. <i>Journal of Cataract and Refractive Surgery</i> , 2004, 30, 2420-2424.	1.5	31
54	Secondary Reactive Oxygen Species Extend the Range of Photosensitization Effects in Cells: DNA Damage Produced Via Initial Membrane Photosensitization. <i>Photochemistry and Photobiology</i> , 2003, 77, 192-203.	2.5	65

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55	Enhancement of Porcine Skin Graft Adherence Using a Light-Activated Process. <i>Journal of Surgical Research</i> , 2002, 108, 77-84.	1.6	85
56	A Compilation of Singlet Oxygen Yields from Biologically Relevant Molecules. <i>Photochemistry and Photobiology</i> , 1999, 70, 391-475.	2.5	943
57	Evidence for peroxyxynitrite formation during S-nitrosoglutathione photolysis in air saturated solutions. <i>FEBS Letters</i> , 1999, 449, 79-82.	2.8	6
58	Can Cellular Phototoxicity be Accurately Predicted on the Basis of Sensitizer Photophysics?. <i>Photochemistry and Photobiology</i> , 1999, 69, 306-316.	2.5	1
59	Can Cellular Phototoxicity be Accurately Predicted on the Basis of Sensitizer Photophysics?. <i>Photochemistry and Photobiology</i> , 1999, 69, 306.	2.5	57
60	Environmental Effects on Cellular Photosensitization: Correlation of Phototoxicity Mechanism with Transient Absorption Spectroscopy Measurements. <i>Photochemistry and Photobiology</i> , 1998, 68, 51-62.	2.5	44
61	Photophysical Properties of Tin Ethyl Etiopurpurin I (SnET2) and Tin Octaethylbenzochlorin (SnOEBC) in Solution and Bound to Albumin. <i>Photochemistry and Photobiology</i> , 1998, 68, 809-815.	2.5	43
62	Exclusive Free Radical Mechanisms of Cellular Photosensitization. <i>Photochemistry and Photobiology</i> , 1998, 68, 266-275.	2.5	11
63	Environmental Effects on Cellular Photosensitization: Correlation of Phototoxicity Mechanism with Transient Absorption Spectroscopy Measurements. <i>Photochemistry and Photobiology</i> , 1998, 68, 51.	2.5	1
64	Exclusive Free Radical Mechanisms of Cellular Photosensitization. <i>Photochemistry and Photobiology</i> , 1998, 68, 266.	2.5	1
65	Photophysical Properties of Tin Ethyl Etiopurpurin I (SnET2) and Tin Octaethylbenzochlorin (SnOEBC) in Solution and Bound to Albumin. <i>Photochemistry and Photobiology</i> , 1998, 68, 809.	2.5	3
66	Photochemical Mechanisms Responsible for the Versatile Application of Naphthalimides and Naphthalaldimides in Biological Systems. <i>Journal of the American Chemical Society</i> , 1997, 119, 11785-11795.	13.7	148
67	Triplet State Interactions between Nucleic Acid Bases in Solution at Room Temperature: Intermolecular Energy and Electron Transfer. <i>Journal of the American Chemical Society</i> , 1996, 118, 4256-4263.	13.7	95
68	N-Hydroxypyridine-2(1H)-thione: Not a Selective Generator of Hydroxyl Radicals in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 1996, 118, 289-290.	13.7	31
69	Photochemistry of the Nonspecific Hydroxyl Radical Generator, N-Hydroxypyridine-2(1H)-thione. <i>Journal of the American Chemical Society</i> , 1996, 118, 10113-10123.	13.7	60
70	Interaction of Triplet Photosensitizers with Nucleotides and DNA in Aqueous Solution at Room Temperature. <i>Journal of the American Chemical Society</i> , 1996, 118, 2366-2373.	13.7	127
71	Photochemistry of N-Hydroxy-2(1H)-pyridone, a More Selective Source of Hydroxyl Radicals Than N-Hydroxypyridine-2(1H)-thione. <i>Journal of the American Chemical Society</i> , 1996, 118, 10124-10133.	13.7	39
72	The Mechanism of Photochemical Release of Nitric Oxide from S-nitrosoglutathione. <i>Photochemistry and Photobiology</i> , 1996, 64, 518-524.	2.5	87

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73	The effects of aggregation, protein binding and cellular incorporation on the photophysical properties of benzoporphyrin derivative monoacid ring A (BPDMA). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1995, 30, 161-169.	3.8	165
74	Photochemistry of N-Hydroxypyridine-2-thione Derivatives: Involvement of the 2-Pyridylthiyl Radical in the Radical Chain Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 1995, 117, 9699-9708.	13.7	67
75	Triplet energy level of β -carotene. <i>Chemical Physics Letters</i> , 1994, 228, 495-498.	2.6	37
76	PHOTOPHYSICAL AND PHOTSENSITIZING PROPERTIES OF BENZOPORPHYRIN DERIVATIVE MONOACID RING A (BPDMA)*. <i>Photochemistry and Photobiology</i> , 1994, 59, 328-335.	2.5	202
77	MERCYANINE DYES: EFFECT OF STRUCTURAL MODIFICATIONS ON PHOTOPHYSICAL PROPERTIES AND BIOLOGICAL ACTIVITY. <i>Photochemistry and Photobiology</i> , 1994, 60, 348-355.	2.5	47
78	Effects of structural modifications on the photosensitizing properties of dialkylcarbocyanine dyes in homogeneous and heterogeneous solutions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994, 1199, 149-156.	2.4	29
79	Photophysical Techniques used in Photobiology and Photomedicine. , 1994, , 1-28.		5
80	PHOTOPHYSICAL PROPERTIES OF 3,3'-DIALKYLTHIACARBOCYANINE DYES IN HOMOGENEOUS SOLUTION. <i>Photochemistry and Photobiology</i> , 1993, 57, 472-479.	2.5	87
81	Photophysical properties of 3,3'-dialkylthiacarbocyanine dyes in organized media: unilamellar liposomes and thin polymer films. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1151, 168-174.	2.6	46
82	A wavelength dependent mechanism for rose bengal-sensitized photoinhibition of red cell acetylcholinesterase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1075, 42-49.	2.4	46
83	Thiophenes as mosquito larvicides: Structure-toxicity relationship analysis. <i>Pesticide Biochemistry and Physiology</i> , 1991, 41, 89-100.	3.6	41
84	ENHANCEMENT OF THE SENSITIVITY OF RADIATIVE and NON-RADIATIVE DETECTION TECHNIQUES IN THE STUDY OF PHOTSENSITIZATION BY WATER SOLUBLE SENSITIZERS USING A REVERSE MICELLE SYSTEMS*, $\hat{\text{a}}$. <i>Photochemistry and Photobiology</i> , 1991, 54, 547-556.	2.5	38
85	The photophysical properties of porphycene incorporated in small unilamellar lipid vesicles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1989, 3, 193-207.	3.8	27
86	Time-resolved thermal lensing and phosphorescence studies on photosensitized singlet molecular oxygen formation. Influence of the electronic configuration of the sensitizer on sensitization efficiency. <i>Chemical Physics Letters</i> , 1988, 148, 523-529.	2.6	133
87	THERMAL-LENSING AND PHOSPHORESCENCE STUDIES OF THE QUANTUM YIELD AND LIFETIME OF SINGLET MOLECULAR OXYGEN ($^1\text{O}_2$) SENSITIZED BY HEMATOPORPHYRIN AND RELATED PORPHYRINS IN DEUTERATED AND NON-DEUTERATED ETHANOLS. <i>Photochemistry and Photobiology</i> , 1987, 45, 209-213.	2.5	57
88	THE PHOTOPHYSICAL PROPERTIES OF PORPHYCENES: POTENTIAL PHOTODYNAMIC THERAPY AGENTS*. <i>Photochemistry and Photobiology</i> , 1986, 44, 555-559.	2.5	110
89	Laser flash photolysis of haematoporphyrins in some homogeneous and heterogeneous environments. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1984, 80, 2293.	1.0	26