

Michael W Berns

List of Publications by Year in descending order

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376
papers

11,357
citations

30070

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49909

87
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387
all docs

387
docs citations

387
times ranked

9418
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing the mechanical activation of Src. <i>Nature</i> , 2005, 434, 1040-1045.	27.8	632
2	Microhomology-mediated End Joining and Homologous Recombination share the initial end resection step to repair DNA double-strand breaks in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7720-7725.	7.1	387
3	The Interaction of CtIP and Nbs1 Connects CDK and ATM to Regulate HR-Mediated Double-Strand Break Repair. <i>PLoS Genetics</i> , 2013, 9, e1003277.	3.5	200
4	Laser induced cell fusion in combination with optical tweezers: The laser cell fusion trap. <i>Cytometry</i> , 1991, 12, 505-510.	1.8	199
5	CtIP Links DNA Double-Strand Break Sensing to Resection. <i>Molecular Cell</i> , 2009, 36, 954-969.	9.7	197
6	Comparative analysis of different laser systems to study cellular responses to DNA damage in mammalian cells. <i>Nucleic Acids Research</i> , 2009, 37, e68-e68.	14.5	187
7	Dynamics of Centromere and Kinetochores Proteins. <i>Current Biology</i> , 2004, 14, 942-952.	3.9	170
8	Influence of optical properties on two-photon fluorescence imaging in turbid samples. <i>Applied Optics</i> , 2000, 39, 1194.	2.1	165
9	SKIN PHOTOSENSITIVITY AND PHOTODESTRUCTION OF SEVERAL POTENTIAL PHOTODYNAMIC SENSITIZERS. <i>Photochemistry and Photobiology</i> , 1989, 49, 431-438.	2.5	145
10	Ablation of bone and methacrylate by a prototype mid-infrared erbium:YAG laser. <i>Lasers in Surgery and Medicine</i> , 1988, 8, 494-500.	2.1	144
11	Micromanipulation of sperm by a laser generated optical trap. <i>Fertility and Sterility</i> , 1989, 52, 870-873.	1.0	143
12	Mid-infrared erbium:YAG laser ablation of bone: The effect of laser osteotomy on bone healing. <i>Lasers in Surgery and Medicine</i> , 1989, 9, 362-374.	2.1	138
13	Polarity reveals intrinsic cell chirality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9296-9300.	7.1	136
14	Double-strand DNA breaks recruit the centromeric histone CENP-A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15762-15767.	7.1	134
15	Laser-Micropipet Combination for Single-Cell Analysis. <i>Analytical Chemistry</i> , 1998, 70, 4570-4577.	6.5	132
16	In vitro photosensitization I. Cellular uptake and subcellular localization of mono-L-aspartyl chlorin e6, chloro-aluminum sulfonated phthalocyanine, and photofrin II. <i>Lasers in Surgery and Medicine</i> , 1989, 9, 90-101.	2.1	128
17	In Vitro Characterization of Monoaspartyl Chlorin e6 and Diaspartyl Chlorin e6 for Photodynamic Therapy. <i>Journal of the National Cancer Institute</i> , 1988, 80, 330-336.	6.3	125
18	Micromanipulation of Chromosomes in PTK2 Cells Using Laser Microsurgery (Optical Scalpel) in Combination with Laser-Induced Optical Force (Optical Tweezers). <i>Experimental Cell Research</i> , 1993, 204, 110-120.	2.6	124

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19	CtIP Maintains Stability at Common Fragile Sites and Inverted Repeats by End Resection-Independent Endonuclease Activity. <i>Molecular Cell</i> , 2014, 54, 1012-1021.	9.7	122
20	A photon-driven micromotor can direct nerve fibre growth. <i>Nature Photonics</i> , 2012, 6, 62-67.	31.4	118
21	Comparison of glycolysis and oxidative phosphorylation as energy sources for mammalian sperm motility, using the combination of fluorescence imaging, laser tweezers, and real-time automated tracking and trapping. <i>Journal of Cellular Physiology</i> , 2008, 217, 745-751.	4.1	112
22	In vitro Production of Chromosomal Lesions with an Argon Laser Microbeam. <i>Nature</i> , 1969, 221, 74-75.	27.8	108
23	TUMOR DESTRUCTION IN PHOTODYNAMIC THERAPY. <i>Photochemistry and Photobiology</i> , 1987, 46, 829-836.	2.5	100
24	Laser Microbeam as a Tool in Cell Biology. <i>International Review of Cytology</i> , 1991, 129, 1-44.	6.2	97
25	Controlled Ablation of Microtubules Using a Picosecond Laser. <i>Biophysical Journal</i> , 2004, 87, 4203-4212.	0.5	96
26	Force generated by human sperm correlated to velocity and determined using a laser generated optical trap. <i>Fertility and Sterility</i> , 1990, 53, 944-947.	1.0	92
27	A Novel Doxorubicin Prodrug with Controllable Photolysis Activation for Cancer Chemotherapy. <i>Pharmaceutical Research</i> , 2010, 27, 1848-1860.	3.5	92
28	NAD ⁺ consumption by PARP1 in response to DNA damage triggers metabolic shift critical for damaged cell survival. <i>Molecular Biology of the Cell</i> , 2019, 30, 2584-2597.	2.1	91
29	Distinct mechanisms regulating mechanical force-induced Ca ²⁺ signals at the plasma membrane and the ER in human MSCs. <i>ELife</i> , 2015, 4, e04876.	6.0	90
30	Optical trapping in animal and fungal cells using a tunable, near-infrared titanium-sapphire laser. <i>Experimental Cell Research</i> , 1992, 198, 375-378.	2.6	87
31	Quantitative near-infrared spectroscopy of cervical dysplasia in vivo. <i>Human Reproduction</i> , 1999, 14, 2908-2916.	0.9	87
32	Digital holographic microscopy for quantitative cell dynamic evaluation during laser microsurgery. <i>Optics Express</i> , 2009, 17, 12031.	3.4	84
33	In-Depth Activation of Channelrhodopsin 2-Sensitized Excitable Cells with High Spatial Resolution Using Two-Photon Excitation with a Near-Infrared Laser Microbeam. <i>Biophysical Journal</i> , 2008, 95, 3916-3926.	0.5	77
34	Distinct Functions of Human Cohesin-SA1 and Cohesin-SA2 in Double-Strand Break Repair. <i>Molecular and Cellular Biology</i> , 2014, 34, 685-698.	2.3	77
35	A positive-feedback-based mechanism for constriction rate acceleration during cytokinesis in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2018, 7, .	6.0	75
36	Selective photosensitizer distribution in vulvar condyloma acuminatum after topical application of 5-aminolevulinic acid. <i>American Journal of Obstetrics and Gynecology</i> , 1996, 174, 951-957.	1.3	73

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37	Dosimetry model for photodynamic therapy with topically administered photosensitizers. , 1996, 18, 139-149.		73
38	Differential Vascular Response to Laser Photothermolysis. Journal of Investigative Dermatology, 1994, 103, 693-700.	0.7	70
39	Chemosensory Ca ²⁺ Dynamics Correlate with Diverse Behavioral Phenotypes in Human Sperm. Journal of Biological Chemistry, 2011, 286, 17311-17325.	3.4	69
40	Thoracoscopic laser ablation of pulmonary bullae: Radiographic selection and treatment response. Journal of Thoracic and Cardiovascular Surgery, 1994, 107, 883-890.	0.8	68
41	Reflectance measurements of layered media with diffuse photon-density waves: a potential tool for evaluating deep burns and subcutaneous lesions. Physics in Medicine and Biology, 1999, 44, 801-813.	3.0	65
42	The Centriolar Complex. International Review of Cytology, 1980, 64, 81-106.	6.2	64
43	Laser Surgery. Scientific American, 1991, 264, 84-90.	1.0	64
44	Distribution of hematoporphyrin derivative in the rat 9L gliosarcoma brain tumor analyzed by digital video fluorescence microscopy. Journal of Neurosurgery, 1984, 61, 1113-1119.	1.6	63
45	Effect of ND:YAG Laser Irradiation and Root Planing on the Root Surface: Structural and Thermal Effects. Journal of Periodontology, 1995, 66, 1032-1039.	3.4	63
46	Photodynamic therapy of high-grade cervical intraepithelial neoplasia with 5-aminolevulinic acid. Lasers in Surgery and Medicine, 2002, 31, 289-293.	2.1	63
47	The use of optical tweezers to study sperm competition and motility in primates. Journal of the Royal Society Interface, 2008, 5, 297-302.	3.4	63
48	CtIP Protein Dimerization Is Critical for Its Recruitment to Chromosomal DNA Double-stranded Breaks. Journal of Biological Chemistry, 2012, 287, 21471-21480.	3.4	63
49	Manipulation of mammalian cells using a single-fiber optical microbeam. Journal of Biomedical Optics, 2008, 13, 1.	2.6	62
50	Root canal preparation using the second harmonic KTP:YAG laser: A thermographic and scanning electron microscopic study. Journal of Endodontics, 1995, 21, 88-91.	3.1	60
51	Laser photoradiation therapy of cancer following hematoporphyrin sensitization. Lasers in Surgery and Medicine, 1982, 2, 163-168.	2.1	59
52	Phycocyanin: Laser activation, cytotoxic effects, and uptake in human atherosclerotic plaque. Lasers in Surgery and Medicine, 1988, 8, 10-17.	2.1	59
53	Selectivity, efficiency, and surface characteristics of hard dental tissues ablated with ArF pulsed excimer lasers. Lasers in Surgery and Medicine, 1991, 11, 499-510.	2.1	58
54	Incision properties and thermal effects of three CO ₂ lasers in soft tissue. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 1995, 79, 685-691.	1.4	57

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55	Internet-based robotic laser scissors and tweezers microscopy. <i>Microscopy Research and Technique</i> , 2005, 68, 65-74.	2.2	57
56	Organization of microscale objects using a microfabricated optical fiber. <i>Optics Letters</i> , 2008, 33, 2155.	3.3	57
57	Laser Scissors and Tweezers. <i>Scientific American</i> , 1998, 278, 62-67.	1.0	56
58	Intravitreal VEGF and bFGF produce florid retinal neovascularization and hemorrhage in the rabbit. <i>Current Eye Research</i> , 2001, 22, 140-147.	1.5	56
59	MUTATION AND SISTER CHROMATID EXCHANGE INDUCTION IN CHINESE HAMSTER OVARY (CHO) CELLS BY PULSED EXCIMER LASER RADIATION AT 93 nm AND 308 nm AND CONTINUOUS UV RADIATION AT 254 nm. <i>Photochemistry and Photobiology</i> , 1989, 49, 413-418.	2.5	55
60	Centriole behavior in early mitosis of rat kangaroo cells (PTK2). <i>Chromosoma</i> , 1976, 54, 387-395.	2.2	54
61	Response of psoriasis to red laser light (630 nm) following systemic injection of hematoporphyrin derivative. <i>Lasers in Surgery and Medicine</i> , 1984, 4, 73-77.	2.1	54
62	In vitro photosensitization II. An electron microscopy study of cellular destruction with mono-L-aspartyl chlorin e6 and photofrin II. <i>Lasers in Surgery and Medicine</i> , 1989, 9, 102-108.	2.1	53
63	Ablation of bone and polymethylmethacrylate by an XeCl (308 nm) excimer laser. <i>Lasers in Surgery and Medicine</i> , 1989, 9, 141-147.	2.1	53
64	Laser-assisted thermal angioplasty in human peripheral artery occlusions: Mechanism of recanalization. <i>Journal of the American College of Cardiology</i> , 1989, 13, 1547-1554.	2.8	53
65	Photodynamic Therapy Using Topically Applied Dihematoporphyrin Ether in the Treatment of Cervical Intraepithelial Neoplasia. <i>Gynecologic Oncology</i> , 1997, 64, 70-75.	1.4	53
66	Photochemotherapy of hypervascular dermal lesions: A possible alternative to photothermal therapy?. <i>Lasers in Surgery and Medicine</i> , 1990, 10, 334-343.	2.1	51
67	Phagocytic response of astrocytes to damaged neighboring cells. <i>PLoS ONE</i> , 2018, 13, e0196153.	2.5	49
68	Photoradiation therapy of head and neck cancer. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 1984, 7, 39-44.	1.3	48
69	Analysis of sperm motility using optical tweezers. <i>Journal of Biomedical Optics</i> , 2006, 11, 044001.	2.6	48
70	Directed Movement of Chromosome Arms and Fragments in Mitotic Newt Lung Cells Using Optical Scissors and Optical Tweezers. <i>Experimental Cell Research</i> , 1994, 213, 308-312.	2.6	47
71	Laser photoradiation therapy of cancer: Possible role of hyperthermia. <i>Lasers in Surgery and Medicine</i> , 1984, 4, 87-92.	2.1	46
72	The RING Finger Protein RNF8 Ubiquitinates Nbs1 to Promote DNA Double-strand Break Repair by Homologous Recombination. <i>Journal of Biological Chemistry</i> , 2012, 287, 43984-43994.	3.4	46

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73	An, Acute Light and Electron Microscopic Study of Ultraviolet 193-nm Excimer Laser Corneal Incisions. <i>Ophthalmology</i> , 1988, 95, 1422-1433.	5.2	44
74	Laser trabecular ablation (LTA). <i>Lasers in Surgery and Medicine</i> , 1991, 11, 341-346.	2.1	42
75	Monitoring Tumor Response During Photodynamic Therapy Using Near-infrared Photon-migration Spectroscopy. <i>Photochemistry and Photobiology</i> , 2001, 73, 669.	2.5	41
76	LIGHT AND ELECTRON MICROSCOPY OF LASER MICROIRRADIATED CHROMOSOMES. <i>Journal of Cell Biology</i> , 1974, 62, 526-533.	5.2	39
77	In Vivo Fluorescence Detection of Ovarian Cancer in the NuTu-19 Epithelial Ovarian Cancer Animal Model Using 5-Aminolevulinic Acid (ALA). <i>Gynecologic Oncology</i> , 1997, 66, 122-132.	1.4	39
78	Computer-based tracking of single sperm. <i>Journal of Biomedical Optics</i> , 2006, 11, 054009.	2.6	39
79	Analysis of DNA double-strand break response and chromatin structure in mitosis using laser microirradiation. <i>Nucleic Acids Research</i> , 2010, 38, e202-e202.	14.5	39
80	Organelle Size Equalization by a Constitutive Process. <i>Current Biology</i> , 2012, 22, 2173-2179.	3.9	39
81	Photosensitization of experimental atheromas by porphyrins. <i>Journal of the American College of Cardiology</i> , 1987, 9, 639-646.	2.8	38
82	Laser-mediated gene transfer in rice. <i>Physiologia Plantarum</i> , 1995, 93, 19-24.	5.2	38
83	Effects of nanosecond pulsed Nd:YAG laser irradiation on dentin resistance to artificial caries-like lesions. , 1997, 20, 15-21.		38
84	Laser microirradiation of stress fibers and intermediate filaments in non-muscle cells from cultured rat heart. <i>Experimental Cell Research</i> , 1979, 119, 31-45.	2.6	37
85	Photodynamic parameters in the chick chorioallantoic membrane (CAM) bioassay for topically applied photosensitizers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999, 53, 44-52.	3.8	37
86	Fluorescence correlation spectroscopy investigation of a GFP mutant-enhanced cyan fluorescent protein and its tubulin fusion in living cells with two-photon excitation. <i>Journal of Biomedical Optics</i> , 2004, 9, 395.	2.6	37
87	Cell biology of hematoporphyrin derivative (hpd). <i>Lasers in Surgery and Medicine</i> , 1983, 2, 261-266.	2.1	36
88	Effects of pulse width on erbium: YAG laser photothermal trabecular ablation (LTA). <i>Lasers in Surgery and Medicine</i> , 1993, 13, 440-446.	2.1	36
89	Photosensitization of the rat endometrium following 5-aminolevulinic acid induced photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 1996, 18, 301-308.	2.1	36
90	LSD1 mediated changes in the local redox environment during the DNA damage response. <i>PLoS ONE</i> , 2018, 13, e0201907.	2.5	36

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91	Photoradiation therapy of gynecologic malignancies. <i>Gynecologic Oncology</i> , 1984, 17, 200-206.	1.4	35
92	Laser VS, Suture Nerve Anastomosis. <i>Otolaryngology - Head and Neck Surgery</i> , 1992, 107, 14-20.	1.9	35
93	Opening of the mouse zona pellucida by laser without a micromanipulator. <i>Human Reproduction</i> , 1993, 8, 939-944.	0.9	35
94	Highly Selective Targeting of Ovarian Cancer with the Photosensitizer PEG α -m α -THPC in a Rat Model. <i>Photochemistry and Photobiology</i> , 1999, 70, 624-629.	2.5	35
95	Argon laser micro-irradiation of mitochondria in rat myocardial cells in tissue culture. <i>Journal of Cellular Physiology</i> , 1970, 76, 207-213.	4.1	34
96	Exposure of human spermatozoa to the cumulus oophorus results in increased relative force as measured by a 760 nm laser optical trap. <i>Human Reproduction</i> , 1993, 8, 1083-1086.	0.9	34
97	Time-resolved and steady-state fluorescence measurements of F^{12} -nicotinamide adenine dinucleotide-alcohol dehydrogenase complex during UVA exposure. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997, 37, 91-95.	3.8	34
98	Laparoscopic Photodynamic Diagnosis of Ovarian Cancer Using 5-Aminolevulinic Acid in a Rat Model. <i>Gynecologic Oncology</i> , 2002, 87, 64-70.	1.4	34
99	Dynamically adjustable annular laser trapping based on axicons. <i>Applied Optics</i> , 2006, 45, 6421.	2.1	34
100	Hematoporphyrin phototherapy of cancer. <i>Radiotherapy and Oncology</i> , 1986, 7, 233-240.	0.6	33
101	Effect of freezing on the relative escape force of sperm as measured by a laser optical trap* $\hat{\alpha}$ *Presented at the 8th World Congress of In Vitro Fertilization and Alternate Assisted Reproduction, Kyoto, Japan, September 11 to 15, 1993. $\hat{\alpha}$ Supported by grant RR-01192 from the National Institutes of Health, Bethesda, Maryland; by grant 000-14-91-C-0134 from the Office of Naval Research, Arlington, Virginia; and by grant DE-FG03-91 ER 61227 from the Department of Energy, Washington, D.C... <i>Fertility and Sterility</i> , 1995, 63, 185-188.	1.0	33
102	Chapter 5 Laser Scissors and Tweezers. <i>Methods in Cell Biology</i> , 1997, 55, 71-98.	1.1	33
103	Real-time automated tracking and trapping system for sperm. <i>Microscopy Research and Technique</i> , 2006, 69, 894-902.	2.2	33
104	Laser Microbeams for Partial Cell Irradiation. <i>International Review of Cytology</i> , 1972, 33, 131-156.	6.2	32
105	Alteration of membrane electrical activity in rat myocardial cells following selective laser microbeam irradiation. <i>Journal of Cellular Physiology</i> , 1977, 93, 99-104.	4.1	32
106	Microscope-delivered ultraviolet laser zona dissection: Principles and practices. <i>Journal of Assisted Reproduction and Genetics</i> , 1992, 9, 513-523.	2.5	32
107	Photomedicine of the endometrium: experimental concepts. <i>Human Reproduction</i> , 1995, 10, 221-226.	0.9	32
108	Two-Photon Excitation of 4'-Hydroxymethyl-4,5',8-Trimethylpsoralen. <i>Photochemistry and Photobiology</i> , 1997, 65, 91-95.	2.5	32

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109	Gene inactivation by multiphoton-targeted photochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9504-9507.	7.1	32
110	Red light improves spermatozoa motility and does not induce oxidative DNA damage. Scientific Reports, 2017, 7, 46480.	3.3	32
111	Laser assisted fixation of ear prostheses after stapedectomy. Lasers in Surgery and Medicine, 1990, 10, 444-447.	2.1	31
112	In vitro and in vivo photosensitizing capabilities of 5-ALA versus Photofrin $\frac{1}{2}$ in vascular endothelial cells. Lasers in Surgery and Medicine, 1999, 24, 178-186.	2.1	31
113	A polarity dependent fluorescence "switch" in live cells. Journal of Photochemistry and Photobiology B: Biology, 2004, 75, 51-56.	3.8	31
114	Laser nanosurgery of single microtubules reveals location-dependent depolymerization rates. Journal of Biomedical Optics, 2007, 12, 024022.	2.6	31
115	Rad50 Zinc Hook Is Important for the Mre11 Complex to Bind Chromosomal DNA Double-stranded Breaks and Initiate Various DNA Damage Responses. Journal of Biological Chemistry, 2012, 287, 31747-31756.	3.4	31
116	Measurements of forces produced by the mitotic spindle using optical tweezers. Molecular Biology of the Cell, 2013, 24, 1375-1386.	2.1	31
117	Condensin I Recruitment to Base Damage-Enriched DNA Lesions Is Modulated by PARP1. PLoS ONE, 2011, 6, e23548.	2.5	30
118	An Intact Centrosome Is Required for the Maintenance of Polarization during Directional Cell Migration. PLoS ONE, 2010, 5, e15462.	2.5	30
119	Cell Surgery by Laser. Scientific American, 1970, 222, 98-110.	1.0	29
120	Systemic application of photosensitizers in the chick chorioallantoic membrane (CAM) model: photodynamic response of CAM vessels and 5-aminolevulinic acid uptake kinetics by transplantable tumors. Journal of Photochemistry and Photobiology B: Biology, 1999, 49, 41-49.	3.8	29
121	CtIP Is Required to Initiate Replication-Dependent Interstrand Crosslink Repair. PLoS Genetics, 2012, 8, e1003050.	3.5	29
122	Genetic microsurgery by laser: establishment of a clonal population of rat kangaroo cells (PTK2) with a directed deficiency in a chromosomal nucleolar organizer. Chromosoma, 1979, 73, 1-8.	2.2	28
123	Micromanipulation of mitotic chromosomes in PTK2 cells using laser-induced optical forces (optical) Tj ETQq1 1 0.784314 rgBT / Qv 2.6	2.6	28
124	Subcellular phototoxicity of 5-aminolaevulinic acid (ALA)., 1998, 22, 14-24.		28
125	In Vivo Quantitative Studies of Dynamic Intracellular Processes Using Fluorescence Correlation Spectroscopy. Biophysical Journal, 2006, 91, 343-351.	0.5	28
126	Laser endarterectomy. Lasers in Surgery and Medicine, 1985, 5, 265-274.	2.1	27

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127	Photodynamic parameters in the chick chorioallantoic membrane (CAM) bioassay for photosensitizers administered intraperitoneally (IP) into the chick embryo. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 721-728.	2.9	27
128	A History of Laser Scissors (Microbeams). <i>Methods in Cell Biology</i> , 2007, 82, 1-58.	1.1	27
129	Laser microirradiation of kinetochores in mitotic Ptk2 cells. <i>Cell Biophysics</i> , 1980, 2, 139-152.	0.4	26
130	Experimental arteriosclerosis treated by conventional and laser endarterectomy. <i>Journal of Surgical Research</i> , 1985, 39, 31-38.	1.6	26
131	Developmental competence of mouse embryos following zona drilling using a non-contact holmium: yttrium scandium gallium garnet (Ho: YSGG) laser system. <i>Human Reproduction</i> , 1995, 10, 1821-1824.	0.9	26
132	Structural and functional effects of endometrial photodynamic therapy in a rat model. <i>American Journal of Obstetrics and Gynecology</i> , 1996, 175, 115-121.	1.3	26
133	Scanning electron microscopy comparison of corneal epithelial removal techniques before photorefractive keratectomy. <i>Journal of Cataract and Refractive Surgery</i> , 1999, 25, 1093-1096.	1.5	25
134	Comparison of laser and diode sources for acceleration of <i>in vitro</i> wound healing by low-level light therapy. <i>Journal of Biomedical Optics</i> , 2014, 19, 038001.	2.6	25
135	Laser microsurgery reveals conserved viscoelastic behavior of the kinetochore. <i>Journal of Cell Biology</i> , 2016, 212, 767-776.	5.2	25
136	Femtosecond near-infrared laser microirradiation reveals a crucial role for PARP signaling on factor assemblies at DNA damage sites. <i>Nucleic Acids Research</i> , 2016, 44, e27-e27.	14.5	25
137	Laser Microirradiation of Chinese Hamster Cells at Wavelength 365 nm: Effects of Psoralen and Caffeine. <i>Radiation Research</i> , 1981, 85, 529.	1.5	24
138	Fluorescence detection of cervical intraepithelial neoplasia for photodynamic therapy with the topical agents 5-aminolevulinic acid and benzoporphyrin-derivative monoacid ring. <i>American Journal of Obstetrics and Gynecology</i> , 2001, 184, 1164-1169.	1.3	24
139	An automatic system to study sperm motility and energetics. <i>Biomedical Microdevices</i> , 2008, 10, 573-583.	2.8	24
140	Spectroscopic, morphologic, and cytotoxic studies on major fractions of hematoporphyrin derivative and Photofrin II. <i>Lasers in Surgery and Medicine</i> , 1987, 7, 171-179.	2.1	23
141	Scanning electron microscopy and thermal characteristics of dentin ablated by a short-pulse XeCl excimer laser. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 353-362.	2.1	23
142	Zona opening with 308 nm XeCl excimer laser improves fertilization by spermatozoa from long-term vasectomized mice. <i>Human Reproduction</i> , 1993, 8, 464-466.	0.9	23
143	In vivo detection of metastatic ovarian cancer by means of 5-aminolevulinic acid-induced fluorescence in a rat model. <i>Journal of Minimally Invasive Gynecology</i> , 1998, 5, 141-148.	1.2	23
144	Minimally-invasive debulking of ovarian cancer in the rat pelvis by means of photodynamic therapy using the pegylated photosensitizer PEG-m-THPC. <i>British Journal of Cancer</i> , 1999, 81, 631-637.	6.4	23

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145	AUTOFLUORESCENCE SPECTROSCOPY OF OPTICALLY TRAPPED CELLS. Photochemistry and Photobiology, 1995, 62, 830-835.	2.5	23
146	Quantitative phase evaluation of dynamic changes on cell membrane during laser microsurgery. Journal of Biomedical Optics, 2008, 13, 050508.	2.6	23
147	Mitosis in flat PTK2-human hybrid cells. Experimental Cell Research, 1979, 120, 223-236.	2.6	22
148	Relative force of human epididymal sperm**Supported by grant RR01192 from the National Institutes of Health, Bethesda, Maryland; by grant 000â€“14â€“91-C-0134 from the Office of Naval Research, Arlington, Virginia; and by grant DE-FG03â€“91 ER 61227 from the Department of Energy, Washington, D.C.. Fertility and Sterility, 1994, 62, 585-590.	1.0	22
149	Thermal effects of CO2 laser on the pulpal chamber and enamel of human primary teeth: An in vitro investigation. Lasers in Surgery and Medicine, 1995, 16, 343-350.	2.1	22
150	Laser Microdissection for Generation of a Human Chromosome Region-specific Library. Microscopy and Microanalysis, 1997, 3, 47-52.	0.4	22
151	<title>Cell permeabilization and molecular transport by laser microirradiation</title>. , 1998, 3260, 38.		22
152	Nitrosyl-cobinamide (NO-Cbi), a new nitric oxide donor, improves wound healing through cGMP/cGMP-dependent protein kinase. Cellular Signalling, 2013, 25, 2374-2382.	3.6	22
153	Ultraviolet 308-nm excimer laser ablation of bone: an acute and chronic study. Applied Optics, 1989, 28, 2350.	2.1	21
154	Effect of administration route and estrogen manipulation on endometrial uptake of Photofrin porfimer sodium. American Journal of Obstetrics and Gynecology, 1993, 168, 685-692.	1.3	21
155	High-throughput sorting and analysis of human sperm with a ring-shaped laser trap. Biomedical Microdevices, 2007, 9, 361-369.	2.8	21
156	Use of laser tweezers to analyze sperm motility and mitochondrial membrane potential. Journal of Biomedical Optics, 2008, 13, 014002.	2.6	21
157	Laser applications to arteriosclerosis: Angioplasty, angioscopy, and open endarterectomy. Lasers in Surgery and Medicine, 1985, 5, 309-320.	2.1	20
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