

# Irene E Kochevar

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,711  
citations

394421

19  
h-index

377865

34  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Transfer Quenching of the Rose Bengal Triplet State. <i>Photochemistry and Photobiology</i> , 1997, 66, 15-25.	2.5	140
2	Collagen Cross-Linking Using Rose Bengal and Green Light to Increase Corneal Stiffness. , 2013, 54, 3426.		134
3	Cytotoxicity and mutagenicity of excimer laser radiation. <i>Lasers in Surgery and Medicine</i> , 1989, 9, 440-445.	2.1	120
4	UV-A Irradiation Activates Nrf2-Regulated Antioxidant Defense and Induces p53/Caspase3-Dependent Apoptosis in Corneal Endothelial Cells. , 2016, 57, 2319.		72
5	PHOTOSENSITIZATION OF SINGLE-STRAND BREAKS IN pBR322 DNA BY ROSE BENGAL. <i>Photochemistry and Photobiology</i> , 1989, 49, 293-298.	2.5	71
6	Singlet Oxygen Signaling: From Intimate to Global. <i>Science Signaling</i> , 2004, 2004, pe7-pe7.	3.6	61
7	Photochemical Tissue Bonding: A Promising Technique for Peripheral Nerve Repair. <i>Journal of Surgical Research</i> , 2007, 143, 224-229.	1.6	60
8	Chronic Photodamage in Skin of Mast Cell-deficient Mice. <i>Photochemistry and Photobiology</i> , 1999, 70, 248-253.	2.5	57
9	Decreased DJ-1 Leads to Impaired Nrf2-Regulated Antioxidant Defense and Increased UV-Induced Apoptosis in Corneal Endothelial Cells. , 2014, 55, 5551.		56
10	THE ROLE OF GROUND STATE COMPLEXATION IN THE ELECTRON TRANSFER QUENCHING OF METHYLENE BLUE FLUORESCENCE BY PURINE NUCLEOTIDES. <i>Photochemistry and Photobiology</i> , 1991, 53, 47-56.	2.5	54
11	Protein kinase C inhibits singlet oxygen-induced apoptosis by decreasing caspase-8 activation. <i>Oncogene</i> , 2001, 20, 6764-6776.	5.9	51
12	Photochemical Sealing Improves Outcome Following Peripheral Neurotomy. <i>Journal of Surgical Research</i> , 2009, 151, 33-39.	1.6	51
13	UV-INDUCED PROTEIN ALTERATIONS AND LIPID OXIDATION IN ERYTHROCYTE MEMBRANES. <i>Photochemistry and Photobiology</i> , 1990, 52, 795-800.	2.5	50
14	Light-Initiated Bonding of Amniotic Membrane to Cornea. , 2011, 52, 9470.		50
15	Corneal Crosslinking With Rose Bengal and Green Light. <i>Cornea</i> , 2016, 35, 1234-1241.	1.7	49
16	RELAXATION OF VASCULAR SMOOTH MUSCLE INDUCED BY LOW-POWER LASER RADIATION. <i>Photochemistry and Photobiology</i> , 1993, 58, 661-669.	2.5	48
17	Medical Applications of Rose Bengal and Riboflavin-Photosensitized Protein Crosslinking. <i>Photochemistry and Photobiology</i> , 2019, 95, 1097-1115.	2.5	47
18	Rose Bengal Binding to Collagen and Tissue Photobonding. <i>ACS Omega</i> , 2017, 2, 6646-6657.	3.5	41

#	ARTICLE	IF	CITATIONS
19	PHOTOCHEMISTRY OF DNA USING 193 nm EXCIMER LASER RADIATION. <i>Photochemistry and Photobiology</i> , 1990, 51, 527-532.	2.5	35
20	Activation of protein kinase C is required for protection of cells against apoptosis induced by singlet oxygen. <i>FEBS Letters</i> , 1998, 437, 158-162.	2.8	35
21	Corneal Biomechanical Response Following Collagen Cross-Linking With Rose Bengalâ€“Green Light and Riboflavin-UVA. , 2016, 57, 992.		35
22	ULTRAVIOLET RADIATION INDUCES A CHANGE IN CELL MEMBRANE POTENTIAL in vitro: A POSSIBLE SIGNAL FOR ULTRAVIOLET RADIATION INDUCED ALTERATION IN CELL ACTIVITY. <i>Photochemistry and Photobiology</i> , 1989, 49, 655-662.	2.5	32
23	Enhancing Rose Bengal-Photosensitized Protein Crosslinking in the Cornea. , 2019, 60, 1845.		28
24	Biomechanical Changes After In Vivo Collagen Cross-Linking With Rose Bengalâ€“Green Light and Riboflavin-UVA. , 2017, 58, 1612.		27
25	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
26	Corneal Wound Repair After Rose Bengal and Green Light Crosslinking: Clinical and Histologic Study. , 2017, 58, 3471.		24
27	Antimicrobial Blue Light Therapy for Infectious Keratitis: Ex Vivo and In Vivo Studies. , 2017, 58, 586.		23
28	Collagen-Based Photoactive Agent for Tissue Bonding. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9265-9270.	8.0	22
29	Flexible Optical Waveguides for Uniform Periscleral Cross-Linking. , 2017, 58, 2596.		22
30	Corneal Resistance to Keratolysis After Collagen Crosslinking With Rose Bengal and Green Light. , 2016, 57, 6610.		21
31	UPPER EXCITED STATE PHOTOCHEMISTRY OF DNA. <i>Photochemistry and Photobiology</i> , 1993, 58, 313-317.	2.5	19
32	Rose Bengal and Green Light Versus Riboflavinâ€“UVA Cross-Linking: Corneal Wound Repair Response. , 2018, 59, 4821.		17
33	Selective Equatorial Sclera Crosslinking in the Orbit Using a Metal-Coated Polymer Waveguide. , 2019, 60, 2563.		17
34	Photoaddition to DNA by Nonintercalated Chlorpromazine Molecules. <i>Photochemistry and Photobiology</i> , 1998, 68, 692-697.	2.5	16
35	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
36	Multiphoton Photochemistry in Biological Systems Introduction. <i>Photochemistry and Photobiology</i> , 1997, 66, 562-565.	2.5	13

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37	Light-Activated Sealing of Acellular Nerve Allografts following Nerve Gap Injury. Journal of Reconstructive Microsurgery, 2016, 32, 421-430.	1.8	12
38	Detection of singlet oxygen luminescence for experimental corneal rose bengal photodynamic antimicrobial therapy. Biomedical Optics Express, 2021, 12, 272.	2.9	11
39	Effects of UVR and UVR-induced Cytokines on Production of Extracellular Matrix Proteins and Proteases by Dermal Fibroblasts Cultured in Collagen Gels. Photochemistry and Photobiology, 2004, 79, 86-93.	2.5	10
40	Interface Bonding With Corneal Crosslinking (CXL) After LASIK Ex Vivo. , 2017, 58, 6292.		8
41	Influence of Rose Bengal Dimerization on Photosensitization. Photochemistry and Photobiology, 2021, 97, 718-726.	2.5	8
42	Arginine as an Enhancer in Rose Bengal Photosensitized Corneal Crosslinking. Translational Vision Science and Technology, 2020, 9, 24.	2.2	7
43	Sealing of Corneal Lacerations Using Photoactivated Rose Bengal Dye and Amniotic Membrane. Cornea, 2018, 37, 211-217.	1.7	6
44	Probing Deep-Tissue Structures by Two-Photon Fluorescence Microscopy. , 0, , 221-237.		2
45	Ultraviolet A Radiation Induces Rapid Apoptosis of Human Leukemia Cells by Fas Ligand-Independent Activation of the Fas Death Pathway. Photochemistry and Photobiology, 2003, 78, 61-67.	2.5	2
46	Singlet Oxygen-induced Activation of Akt/Protein Kinase B is Independent of Growth Factor Receptors. Photochemistry and Photobiology, 2007, 78, 361-371.	2.5	2
47	Variations in the endogenous fluorescence of rabbit corneas after mechanical property alterations. Journal of Biomedical Optics, 2017, 22, 1.	2.6	2
48	Singlet Oxygen, but not Oxidizing Radicals, Induces Apoptosis in HL-60 Cells. Photochemistry and Photobiology, 2007, 72, 548-553.	2.5	1
49	Antagonism between G $\beta$ 2 and G $\beta$ 3 in CXCR3-mediated signaling. FASEB Journal, 2006, 20, LB77.	0.5	1
50	Cell damage induced by Angiovis-370 and 308nm excimer laser radiation. , 1997, 20, 111-118.		0
51	Photochemical Tissue Bonding of Apligraf to Skin. Wound Repair and Regeneration, 2005, 13, A28-A48.	3.0	0
52	Light-activated wound healing and tissue modification. Biochemist, 2016, 38, 20-23.	0.5	0