Usha P Andley

List of Publications by Year
in descending order

82	8,055	159358 30	76769 74
papers	citations	h-index	g-index

83	83	83	15533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxysterol Compounds in Mouse Mutant Î±A- and Î±B-Crystallin Lenses Can Improve the Optical Properties of the Lens. , 2022, 63, 15.		8
2	Analysis of amyloid-like secondary structure in the Cryab-R120G knock-in mouse model of hereditary cataracts by two-dimensional infrared spectroscopy. PLoS ONE, 2021, 16, e0257098.	1.1	9
3	Alpha-crystallin mutations alter lens metabolites in mouse models of human cataracts. PLoS ONE, 2020, 15, e0238081.	1.1	12
4	Creatine kinase/Î±-crystallin interaction functions in cataract development. Biochemistry and Biophysics Reports, 2020, 22, 100748.	0.7	1
5	Changes in relative histone abundance and heterochromatin in Î±A-crystallin and Î±B-crystallin knock-in mutant mouse lenses. BMC Research Notes, 2020, 13, 315.	0.6	3
6	Mechanism of Action of VP1-001 in cryAB(R120G)-Associated and Age-Related Cataracts. , 2019, 60, 3320.		25
7	In vitro interactions of histones and Î±-crystallin. Biochemistry and Biophysics Reports, 2018, 15, 7-12.	0.7	4
8	Probing the changes in gene expression due to Î±-crystallin mutations in mouse models of hereditary human cataract. PLoS ONE, 2018, 13, e0190817.	1.1	23
9	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
10	Autophagy and UPR in alpha-crystallin mutant knock-in mouse models of hereditary cataracts. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 234-239.	1.1	30
11	Pharmacological chaperone for Î±-crystallin partially restores transparency in cataract models. Science, 2015, 350, 674-677.	6.0	195
12	In Vivo Substrates of the Lens Molecular Chaperones Î±A-Crystallin and Î±B-Crystallin. PLoS ONE, 2014, 9, e95507.	1.1	29
13	p62 expression and autophagy in Î±B-crystallin R120G mutant knock-in mouse model of hereditary cataract. Experimental Eye Research, 2013, 115, 263-273.	1.2	43
14	Comparative Proteomic Analysis Identifies Age-Dependent Increases in the Abundance of Specific Proteins after Deletion of the Small Heat Shock Proteins Î±A- and Î±B-Crystallin. Biochemistry, 2013, 52, 2933-2948.	1.2	16
15	A Knock-In Mouse Model for the R120G Mutation of Î±B-Crystallin Recapitulates Human Hereditary Myopathy and Cataracts. PLoS ONE, 2011, 6, e17671.	1.1	68
16	Immunological Detection of Nâ€formylkynurenine in Porphyrinâ€Mediated Photooxided Lens Î±â€crystallin. Photochemistry and Photobiology, 2011, 87, 1321-1329.	1.3	15
17	Inhibition of Lens Photodamage by UV-Absorbing Contact Lenses. , 2011, 52, 8330.		24
18	Evaluation of the Toxicity of Triamcinolone Acetonide and Dexamethasone Sodium Phosphate on Human Lens Epithelial Cells (HLE B-3). Journal of Ocular Pharmacology and Therapeutics, 2011, 27, 265-271.	0.6	13

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19	Detection and Prevention of Ocular Phototoxicity of Ciprofloxacin and Other Fluoroquinolone Antibiotics^{â€}. Photochemistry and Photobiology, 2010, 86, 798-805.	1.3	39
20	Activation of the unfolded protein response by a cataract-associated Î±A-crystallin mutation. Biochemical and Biophysical Research Communications, 2010, 401, 192-196.	1.0	24
21	In vivo lens deficiency of the R49C Î±A-crystallin mutant. Experimental Eye Research, 2010, 90, 699-702.	1.2	19
22	Î±A-Crystallin associates with Î±6 integrin receptor complexes and regulates cellular signaling. Experimental Eye Research, 2010, 91, 640-651.	1.2	10
23	Quantitative biometric phenotype analysis in mouse lenses. Molecular Vision, 2010, 16, 1041-6.	1.1	6
24	Mechanism of small heat shock protein function in vivo. A knock-in mouse model demonstrates that the R49C mutation in Î±A-crystallin enhances protein insolubility and cell death.. Journal of Biological Chemistry, 2009, 284, 35996.	1.6	0
25	Î±A-crystallin R49Cneomutation influences the architecture of lens fiber cell membranes and causes posterior and nuclear cataracts in mice. BMC Ophthalmology, 2009, 9, 4.	0.6	27
26	Difference in Phototoxicity of Cyclodextrin Complexed Fullerene [(Î³-CyD)₂/C₆₀] and Its Aggregated Derivatives toward Human Lens Epithelial Cells. Chemical Research in Toxicology, 2009, 22, 660-667.	1.7	60
27	Effects of α-Crystallin on Lens Cell Function and Cataract Pathology. Current Molecular Medicine, 2009, 9, 887-892.	0.6	85
28	Phototoxicity and cytotoxicity of fullerol in human lens epithelial cells. Toxicology and Applied Pharmacology, 2008, 228, 49-58.	1.3	100
29	The lens epithelium: Focus on the expression and function of the Î±-crystallin chaperones. International Journal of Biochemistry and Cell Biology, 2008, 40, 317-323.	1.2	68
30	Mechanism of Insolubilization by a Single-Point Mutation in Î±A-Crystallin Linked with Hereditary Human Cataracts. Biochemistry, 2008, 47, 9697-9706.	1.2	30
31	Mechanism of Small Heat Shock Protein Function in Vivo. Journal of Biological Chemistry, 2008, 283, 5801-5814.	1.6	48
32	Non-Thermal Electromagnetic Radiation Damage to Lens Epithelium. Open Ophthalmology Journal, 2008, 2, 102-106.	0.1	14
33	Crystallins in the eye: Function and pathology. Progress in Retinal and Eye Research, 2007, 26, 78-98.	7.3	375
34	Up-regulation of tau, a brain microtubule-associated protein, in lens cortical fractions of aged alphaA-, alphaB-, and alphaA/B-crystallin knockout mice. Molecular Vision, 2007, 13, 1589-600.	1.1	7
35	Crystallins and hereditary cataracts: molecular mechanisms and potential for therapy. Expert Reviews in Molecular Medicine, 2006, 8, 1-19.	1.6	32
36	Alphaâ€crystallin expression affects microtubule assembly and prevents their aggregation. FASEB Journal, 2006, 20, 846-857.	0.2	67

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37	Peroxide resistance in human and mouse lens epithelial cell lines is related to long-term changes in cell biology and architecture. Free Radical Biology and Medicine, 2005, 39, 797-810.	1.3	10
38	Gauri Shankar Singhal (1933â€“2004): A Photochemist, a Photobiologist, a Great Mentor and a Generous Friend. Photosynthesis Research, 2005, 85, 145-148.	1.6	4
39	Mimicking phosphorylation of the small heat-shock protein Î±B-crystallin recruits the F-box protein FBX4 to nuclear SC35 speckles. FEBS Journal, 2004, 271, 4195-4203.	0.2	63
40	Cell kinetic status of mouse lens epithelial cells lacking Î±A- and Î±B-crystallin. Molecular and Cellular Biochemistry, 2004, 265, 115-122.	1.4	17
41	A comparative analysis of Î±A- and Î±B-crystallin expression during the cell cycle in primary mouse lens epithelial cultures. Experimental Eye Research, 2004, 79, 795-805.	1.2	17
42	Identification of Genes Responsive to UVâ€A Radiation in Human Lens Epithelial Cells Using Complementary DNA Microarrays^{Â¶}. Photochemistry and Photobiology, 2004, 80, 61-71.	1.3	0
43	Phototoxicity in Human Lens Epithelial Cells Promoted by St. John's Wort^{Â¶}. Photochemistry and Photobiology, 2004, 80, 583-586.	1.3	0
44	Phototoxicity in Human Lens Epithelial Cells Promoted by St. John's WortÂ¶. Photochemistry and Photobiology, 2004, 80, 583.	1.3	12
45	Identification of Genes Responsive to UV-A Radiation in Human Lens Epithelial Cells Using Complementary DNA MicroarraysÂ¶. Photochemistry and Photobiology, 2004, 80, 61.	1.3	18
46	Phototoxicity in Human Lens Epithelial Cells Promoted by St. John's WortÂ¶. Photochemistry and Photobiology, 2004, 80, 583.	1.3	11
47	A missense mutation in the gammaD crystallin gene (CRYGD) associated with autosomal dominant "coral-like" cataract linked to chromosome 2q. Molecular Vision, 2004, 10, 155-62.	1.1	39
48	Cell death triggered by a novel mutation in the alphaA-crystallin gene underlies autosomal dominant cataract linked to chromosome 21q. European Journal of Human Genetics, 2003, 11, 784-793.	1.4	167
49	Reduced survival of lens epithelial cells in theÎ±A-crystallin-knockout mouse. Journal of Cell Science, 2003, 116, 1073-1085.	1.2	53
50	Hyperproliferation and p53 Status of Lens Epithelial Cells Derived from Î±B-crystallin Knockout Mice. Journal of Biological Chemistry, 2003, 278, 36876-36886.	1.6	37
51	Metabolism of Lipid Derived Aldehyde, 4-Hydroxynonenal in Human Lens Epithelial Cells and Rat Lens. , 2003, 44, 2675.		30
52	Proteome Analysis of Lens Epithelia, Fibers, and the HLE B-3 Cell Line. , 2003, 44, 4829.		52
53	A comprehensive analysis of the expression of crystallins in mouse retina. Molecular Vision, 2003, 9, 410-9.	1.1	95
54	The R116C Mutation in Î±A-crystallin Diminishes Its Protective Ability against Stress-induced Lens Epithelial Cell Apoptosis. Journal of Biological Chemistry, 2002, 277, 10178-10186.	1.6	70

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55	Ubiquitin-activating Enzyme (E1) Isoforms in Lens Epithelial Cells: Origin of Translation, E2 Specificity and Cellular Localization Determined with Novel Site-specific Antibodies. Experimental Eye Research, 2001, 73, 827-836.	1.2	29
56	Lens epithelial cells derived from Î±Bâ€crystallin knockout mice demonstrate hyperproliferation and genomic instability. FASEB Journal, 2001, 15, 221-229.	0.2	66
57	Differential Protective Activity of Î±A- and Î±B-crystallin in Lens Epithelial Cells. Journal of Biological Chemistry, 2000, 275, 36823-36831.	1.6	145
58	Induction of Heme Oxygenase-1 Modulates cis-Aconitase Activity in Lens Epithelial Cells. Biochemical and Biophysical Research Communications, 2000, 270, 324-328.	1.0	9
59	DNA repair and survival in human lens epithelial cells with extended lifespan. Current Eye Research, 1999, 18, 224-230.	0.7	21
60	The Molecular Chaperone Î±A-Crystallin Enhances Lens Epithelial Cell Growth and Resistance to UVA Stress. Journal of Biological Chemistry, 1998, 273, 31252-31261.	1.6	109
61	Cloning, Expression, and Chaperone-like Activity of Human Î±A-Crystallin. Journal of Biological Chemistry, 1996, 271, 31973-31980.	1.6	158
62	ULTRAVIOLET ACTION SPECTRA FOR PHOTOBIOLOGICAL EFFECTS IN CULTURED HUMAN LENS EPITHELIAL CELLS. Photochemistry and Photobiology, 1995, 62, 840-846.	1.3	20
63	Expression of Recombinant Bovine Î³B-, Î³C- and Î³D-Crystallins and Correlation with Native Proteins. Experimental Eye Research, 1994, 58, 573-584.	1.2	23
64	Photoreactions of human lens monomeric crystallins. BBA - Proteins and Proteomics, 1989, 997, 284-291.	2.1	9
65	THE EFFECTS OF NEAR-UV RADIATION ON HUMAN LENS Î²-CRYSTALLINS: PROTEIN STRUCTURAL CHANGES and THE PRODUCTION OF O2_and H2O2. Photochemistry and Photobiology, 1989, 50, 97-105.	1.3	47
66	Conformational changes of Î²H-crystallin in riboflavin-sensitized photooxidation. Experimental Eye Research, 1988, 47, 1-15.	1.2	17
67	Accessibilities of the sulfhydryl groups of native and photooxidized lens crystallins: a fluorescence lifetime and quenching study. Biochemistry, 1988, 27, 810-820.	1.2	12
68	Lens hexokinase deactivation by near-UV irradiation. Current Eye Research, 1988, 7, 257-263.	0.7	24
69	Spectroscopic studies on the riboflavin-sensitized conformational changes of calf lens Î±-crystallin. Experimental Eye Research, 1988, 46, 531-544.	1.2	15
70	Spectroscopic studies on the photooxidation of calf-lens Î³-crystallin. Current Eye Research, 1988, 7, 571-579.	0.7	29
71	Photosensitized Oxidation Of Lens Crystallins: Role Of Conformational Changes In Cataract. Proceedings of SPIE, 1988, , .	0.8	1
72	Oxidative damage to human lens enzymes. Current Eye Research, 1987, 6, 345-350.	0.7	18

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73	PHOTODAMAGE TO THE EYE. Photochemistry and Photobiology, 1987, 46, 1057-1066.	1.3	76
74	CONFORMATIONAL CHANGES OF BOVINE LENS CRYSTALLINS IN A PHOTODYNAMIC SYSTEM. Photochemistry and Photobiology, 1986, 44, 67-74.	1.3	26
75	CHANGE IN SULFHYDRYL GROUP MICROENVIRONMENT OF CALF LENS Î±-CRYSTALLIN BY 300 nm LIGHT. Photochemistry and Photobiology, 1986, 43, 175-181.	1.3	13
76	Spectroscopic studies on human lens crystallins. BBA - Proteins and Proteomics, 1985, 832, 197-203.	2.1	29
77	Fluorescence studies on tryptophan and sulfhydryl group changes of bovine lens crystallins in a photodynamic system: Current Eye Research. Current Eye Research, 1985, 4, 831-842.	0.7	16
78	CHANGES IN TERTIARY STRUCTURE OF CALFâ€ŁENS Î±â€€CRYSTALLIN BY NEARâ€ŁUV IRRADIATION: ROLE OF HYDROGEN PEROXIDE. Photochemistry and Photobiology, 1984, 40, 343-349.	1.3	79
79	Role of singlet oxygen in the degradation of hyaluronic acid. Biochemical and Biophysical Research Communications, 1983, 115, 894-901.	1.0	41
80	Spectroscopic investigations of bovine lens crystallins. 2. Fluorescent probes for polar-apolar nature and sulfhydryl group accessibility. Biochemistry, 1982, 21, 1853-1858.	1.2	62
81	LIGHT-INDUCED CHANGE IN RHODOPSIN EMISSION: PHOSPHORESCENCE and FLUORESCENCE. Photochemistry and Photobiology, 1982, 35, 385-390.	1.3	5
82	Interaction of 8-anilino-1-naphthalenesulfonate with rod outer segment membrane. Biochemistry, 1981, 20, 1687-1693.	1.2	31