

Sanjoy K Bhattacharya

List of Publications by Year in descending order

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121
papers

2,788
citations

279487

23
h-index

253896

43
g-index

129
all docs

129
docs citations

129
times ranked

2920
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous Humor Dynamics: A Review~!2010-03-03~!2010-06-17~!2010-09-02~!. Open Ophthalmology Journal, 2010, 4, 52-59.	0.1	582
2	Aqueous outflow - A continuum from trabecular meshwork to episcleral veins. Progress in Retinal and Eye Research, 2017, 57, 108-133.	7.3	205
3	Proteomics Reveal Cochlin Deposits Associated with Glaucomatous Trabecular Meshwork. Journal of Biological Chemistry, 2005, 280, 6080-6084.	1.6	140
4	Proteomics Implicates Peptidyl Arginine Deiminase 2 and Optic Nerve Citrullination in Glaucoma Pathogenesis. , 2006, 47, 2508.		106
5	Increased Endoplasmic Reticulum Stress in Human Glaucomatous Trabecular Meshwork Cells and Tissues. , 2015, 56, 3860.		69
6	Strategies to recover proteins from ocular tissues for proteomics. Proteomics, 2008, 8, 1055-1070.	1.3	52
7	Network analysis of human glaucomatous optic nerve head astrocytes. BMC Medical Genomics, 2009, 2, 24.	0.7	51
8	Cochlin Expression in Anterior Segment Organ Culture Models after TGF β 2 Treatment. , 2009, 50, 551.		47
9	Hypoxia-Driven Oncometabolite L-2HG Maintains Stemness-Differentiation Balance and Facilitates Immune Evasion in Pancreatic Cancer. Cancer Research, 2021, 81, 4001-4013.	0.4	39
10	Cochlin deposits in the trabecular meshwork of the glaucomatous DBA/2J mouse. Experimental Eye Research, 2005, 80, 741-744.	1.2	38
11	Proteomics Characterization of Cell Membrane Blebs in Human Retinal Pigment Epithelium Cells. Molecular and Cellular Proteomics, 2009, 8, 2201-2211.	2.5	38
12	Phospholipid profiles of control and glaucomatous human aqueous humor. Biochimie, 2014, 101, 232-247.	1.3	36
13	Cochlin, Intraocular Pressure Regulation and Mechanosensing. PLoS ONE, 2012, 7, e34309.	1.1	36
14	Retinal deimination in aging and disease. IUBMB Life, 2009, 61, 504-509.	1.5	33
15	Comparative Phospholipid Profiles of Control and Glaucomatous Human Trabecular Meshwork. , 2013, 54, 3037.		33
16	Modulation of Peptidyl Arginine Deiminase 2 and Implication for Neurodegeneration. Current Eye Research, 2006, 31, 1063-1071.	0.7	32
17	Extensive Citrullination Promotes Immunogenicity of HSP90 through Protein Unfolding and Exposure of Cryptic Epitopes. Journal of Immunology, 2016, 197, 1926-1936.	0.4	32
18	Cochlin in the eye: Functional implications. Progress in Retinal and Eye Research, 2007, 26, 453-469.	7.3	29

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19	Isolevuglandin-Modified Proteins, Including Elevated Levels of Inactive Calpain-1, Accumulate in Glaucomatous Trabecular Meshwork. <i>Biochemistry</i> , 2008, 47, 817-825.	1.2	29
20	The Use of Bromodeoxyuridine Incorporation Assays to Assess Corneal Stem Cell Proliferation. <i>Methods in Molecular Biology</i> , 2013, 1014, 65-70.	0.4	29
21	Cochlin Induced TREK-1 Co-Expression and Annexin A2 Secretion: Role in Trabecular Meshwork Cell Elongation and Motility. <i>PLoS ONE</i> , 2011, 6, e23070.	1.1	28
22	Cholesterol and Glycosphingolipids of Human Trabecular Meshwork and Aqueous Humor: Comparative Profiles from Control and Glaucomatous Donors. <i>Current Eye Research</i> , 2013, 38, 1017-1026.	0.7	28
23	Aqueous humor metabolite profile of pseudoexfoliation glaucoma is distinctive. <i>Molecular Omics</i> , 2020, 16, 425-435.	1.4	28
24	Optic Nerve Lipidomics Reveal Impaired Glucosylsphingosine Lipids Pathway in Glaucoma. , 2019, 60, 1789.		27
25	Retinal deimination and PAD2 levels in retinas from donors with age-related macular degeneration (AMD). <i>Experimental Eye Research</i> , 2013, 111, 71-78.	1.2	26
26	Recent Advances in Shotgun Lipidomics and Their Implication for Vision Research and Ophthalmology. <i>Current Eye Research</i> , 2013, 38, 417-427.	0.7	26
27	Mechanotransduction Channels of the Trabecular Meshwork. <i>Current Eye Research</i> , 2014, 39, 291-303.	0.7	26
28	Segmental outflow of aqueous humor in mouse and human. <i>Experimental Eye Research</i> , 2017, 158, 59-66.	1.2	26
29	Differentiation of soluble aqueous humor metabolites in primary open angle glaucoma and controls. <i>Experimental Eye Research</i> , 2020, 194, 108024.	1.2	26
30	Multi-Omic Analyses of Growth Cones at Different Developmental Stages Provides Insight into Pathways in Adult Neuroregeneration. <i>IScience</i> , 2020, 23, 100836.	1.9	25
31	Laser Trabeculoplasty Induces Changes in the Trabecular Meshwork Glycoproteome: A Pilot Study. <i>Journal of Proteome Research</i> , 2009, 8, 3727-3736.	1.8	24
32	Identification and Characterization of Adipose Tissue-Derived Human Antibodies With "Anti-self" Specificity. <i>Frontiers in Immunology</i> , 2020, 11, 392.	2.2	23
33	COCH Transgene Expression in Cultured Human Trabecular Meshwork Cells and Its Effect on Outflow Facility in Monkey Organ Cultured Anterior Segments. , 2010, 51, 2060.		22
34	Evaluation of a Transgenic Mouse Model of Multiple Sclerosis with Noninvasive Methods. , 2011, 52, 2405.		22
35	Mass Spectrometric Analyses of Phosphatidylcholines in Alkali-Exposed Corneal Tissue. , 2012, 53, 7122.		22
36	Cochlin and glaucoma: A mini-review. <i>Visual Neuroscience</i> , 2005, 22, 605-613.	0.5	21

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37	Proteomic Analysis of Climatic Keratopathy Droplets. , 2008, 49, 2829.		21
38	Interaction of cochlin and mechanosensitive channel TREK-1 in trabecular meshwork cells influences the regulation of intraocular pressure. Scientific Reports, 2017, 7, 452.	1.6	21
39	Sphingolipids and ceramides in human aqueous humor. Molecular Vision, 2013, 19, 1966-84.	1.1	21
40	Focus on Molecules: Cochlin. Experimental Eye Research, 2006, 82, 355-356.	1.2	20
41	Consensus Recommendation for Mouse Models of Ocular Hypertension to Study Aqueous Humor Outflow and Its Mechanisms. , 2022, 63, 12.		20
42	The effect of extrinsic Wnt/ β -catenin signaling in Muller glia on retinal ganglion cell neurite growth. Developmental Neurobiology, 2020, 80, 98-110.	1.5	19
43	Consensus Statement for the Management and Treatment of Sturge-Weber Syndrome: Neurology, Neuroimaging, and Ophthalmology Recommendations. Pediatric Neurology, 2021, 121, 59-66.	1.0	19
44	Age-related reduction in retinal deimination levels in the F344BN rat. Aging Cell, 2008, 7, 441-444.	3.0	18
45	Increased isolevuglandin-modified proteins in glaucomatous astrocytes. Molecular Vision, 2009, 15, 1079-91.	1.1	18
46	Sphingolipids and ceramides of mouse aqueous humor: Comparative profiles from normotensive and hypertensive DBA/2J mice. Biochimie, 2014, 105, 99-109.	1.3	17
47	Parallel Multi-Omics in High-Risk Subjects for the Identification of Integrated Biomarker Signatures of Type 1 Diabetes. Biomolecules, 2021, 11, 383.	1.8	17
48	Ionic Currents of Human Trabecular Meshwork Cells from Control and Glaucoma Subjects. Journal of Membrane Biology, 2013, 246, 167-175.	1.0	14
49	Aqueous humor phospholipids of DBA/2J and DBA/2J-Gpmb+/Sjl mice. Biochimie, 2015, 113, 59-68.	1.3	14
50	MIF Inhibitor ISO-1 Protects Photoreceptors and Reduces Gliosis in Experimental Retinal Detachment. Scientific Reports, 2017, 7, 14336.	1.6	14
51	Translational proteomic study to address host protein changes during aspergillosis. PLoS ONE, 2018, 13, e0200843.	1.1	14
52	Alteration in Lysophospholipids and Converting Enzymes in Glaucomatous Optic Nerves. , 2020, 61, 60.		14
53	Stool Phospholipid Signature is Altered by Diet and Tumors. PLoS ONE, 2014, 9, e114352.	1.1	14
54	Biochemical engineering: cues from cells. Trends in Biotechnology, 2003, 21, 204-209.	4.9	13

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55	Ocular Effects of Exposure to Industrial Chemicals: Clinical Management and Proteomic Approaches to Damage Assessment. <i>Cutaneous and Ocular Toxicology</i> , 2007, 26, 203-225.	0.5	13
56	Deimination restores inner retinal visual function in murine demyelinating disease. <i>Journal of Clinical Investigation</i> , 2013, 123, 646-56.	3.9	13
57	Human Trabecular Meshwork Sphingolipid and Ceramide Profiles and Potential Latent Fungal Commensalism. , 2014, 55, 3413.		13
58	Lipid profile dataset of optogenetics induced optic nerve regeneration. <i>Data in Brief</i> , 2020, 31, 106001.	0.5	13
59	Endogenous ocular lipids as potential modulators of intraocular pressure. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 3856-3900.	1.6	13
60	Proteomic Analyses of Corneal Tissue Subjected to Alkali Exposure. , 2011, 52, 1819.		12
61	Comparative lipid profiling dataset of the inflammation-induced optic nerve regeneration. <i>Data in Brief</i> , 2019, 24, 103950.	0.5	12
62	Proteomic Analyses of Zebra Finch Optic Tectum and Comparative Histochemistry. <i>Journal of Proteome Research</i> , 2007, 6, 2341-2350.	1.8	11
63	Mechanical Stretching Elevates Peptidyl Arginine Deiminase 2 Expression in Astrocytes. <i>Current Eye Research</i> , 2008, 33, 994-1001.	0.7	11
64	Neuroprotection in Glaucoma Using Calpain-1 Inhibitors: Regional Differences in Calpain-1 Activity in the Trabecular Meshwork, Optic Nerve and Implications for Therapeutics. <i>CNS and Neurological Disorders - Drug Targets</i> , 2008, 7, 295-304.	0.8	11
65	Detection of Magnetic Particles in Live DBA/2J Mouse Eyes Using Magnetomotive Optical Coherence Tomography. <i>Eye and Contact Lens</i> , 2010, 36, 346-351.	0.8	11
66	The role of deimination in ATP5b mRNA transport in a transgenic mouse model of multiple sclerosis. <i>EMBO Reports</i> , 2012, 13, 230-236.	2.0	11
67	Aberrant glycosylation in the human trabecular meshwork. <i>Proteomics - Clinical Applications</i> , 2014, 8, 130-142.	0.8	11
68	Histologic Analysis of Trabecular Meshwork Obtained From Kahook Dual Blade Goniotomy. <i>American Journal of Ophthalmology</i> , 2018, 192, 198-205.	1.7	11
69	Review of application of mass spectrometry for analyses of anterior eye proteome. <i>World Journal of Biological Chemistry</i> , 2014, 5, 106-14.	1.7	11
70	Proteomic Analyses of Songbird (Zebra finch; <i>Taeniopygia guttata</i>) Retina. <i>Journal of Proteome Research</i> , 2007, 6, 1093-1100.	1.8	10
71	Phospholipidomic Studies in Human Cornea From Climatic Droplet Keratopathy. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 3920-3931.	1.2	10
72	Lipidomic mass spectrometry and its application in neuroscience. <i>World Journal of Biological Chemistry</i> , 2013, 4, 102.	1.7	10

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73	Potential for Transcriptional Upregulation of Cochlin in Glaucomatous Trabecular Meshwork: A Combinatorial Bioinformatic and Biochemical Analytical Approach. , 2009, 50, 3106.		9
74	Proteomics of the Nucleus Ovoidalis and Field L Brain Regions of Zebra Finch. Journal of Proteome Research, 2008, 7, 2121-2132.	1.8	8
75	A Comparison of Trabecular Meshwork Sphingolipids and Ceramides of Ocular Normotensive and Hypertensive States of DBA/2J Mice. Journal of Ocular Pharmacology and Therapeutics, 2014, 30, 283-290.	0.6	8
76	Phospholipid makeup of the breast adipose tissue is impacted by obesity and mammary cancer in the mouse: Results of a pilot study. Biochimie, 2015, 108, 133-139.	1.3	8
77	In vivo quantification of cochlin in glaucomatous DBA/2J mice using optical coherence tomography. Scientific Reports, 2015, 5, 11092.	1.6	7
78	Myelin Basic Protein Phospholipid Complexation Likely Competes with Deimination in Experimental Autoimmune Encephalomyelitis Mouse Model. ACS Omega, 2020, 5, 15454-15467.	1.6	7
79	Phospholipid secretions of organ cultured ciliary body. Journal of Cellular Biochemistry, 2018, 119, 2556-2566.	1.2	6
80	A novel myelin basic protein transcript variant in the murine central nervous system. Molecular Biology Reports, 2019, 46, 2547-2553.	1.0	6
81	Nuclear prelamin a recognition factor and iron dysregulation in multiple sclerosis. Metabolic Brain Disease, 2020, 35, 275-282.	1.4	6
82	Proteomics of pseudoexfoliation materials in the anterior eye segment. Advances in Protein Chemistry and Structural Biology, 2021, 127, 271-290.	1.0	6
83	Lipidomics dataset of PTEN deletion-induced optic nerve regeneration mouse model. Data in Brief, 2021, 34, 106699.	0.5	6
84	Lyso-Lipid-Induced Oligodendrocyte Maturation Underlies Restoration of Optic Nerve Function. ENeuro, 2022, 9, ENEURO.0429-21.2022.	0.9	6
85	The Role of Deimination in Regenerative Reprogramming of Neurons. Molecular Neurobiology, 2019, 56, 2618-2639.	1.9	5
86	Lipid profiling dataset of the Wnt3a-induced optic nerve regeneration. Data in Brief, 2019, 25, 103966.	0.5	5
87	Labeled quantitative mass spectrometry to study the host response during aspergillosis in the common bottlenose dolphin (<i>Tursiops truncatus</i>). Veterinary Microbiology, 2019, 232, 42-49.	0.8	5
88	An overview of lipidomics utilizing cadaver derived biological samples. Expert Review of Proteomics, 2021, 18, 453-461.	1.3	5
89	Quantitative Metabolomics Using Isotope Residue Outlier Analysis (IROA®) with Internal Standards. Methods in Molecular Biology, 2019, 1996, 41-46.	0.4	5
90	Capillary Electrophoresis Assessment of Plasma Protein Changes in an African Penguin (<i>Spheniscus</i>)	1.6	5

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91	Mass spectrometric analyses of phospholipids in the S334ter-3 rat model of retinal degeneration. <i>Molecular Vision</i> , 2014, 20, 1605-11.	1.1	5
92	Deimination level and peptidyl arginine deiminase 2 expression are elevated in astrocytes with increased incubation temperature. <i>Journal of Neuroscience Research</i> , 2015, 93, 1388-1398.	1.3	4
93	Lipidomics dataset of Danio rerio optic nerve regeneration model. <i>Data in Brief</i> , 2021, 37, 107260.	0.5	4
94	Quantitative proteomic analysis after neuroprotective MyD88 inhibition in the retinal degeneration 10 mouse. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 9533-9542.	1.6	4
95	Sample Preparation and Analysis for Imaging Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2017, 1609, 43-50.	0.4	3
96	Shotgun Sphingolipid Analysis of Human Aqueous Humor. <i>Methods in Molecular Biology</i> , 2018, 1695, 97-107.	0.4	3
97	Quantitative Proteomic Analysis of Human Aqueous Humor Using iTRAQ 4plex Labeling. <i>Methods in Molecular Biology</i> , 2018, 1695, 89-95.	0.4	3
98	Analyses of Cholesterol Metabolites of Optic Nerve Using GC-MS Methods. <i>Methods in Molecular Biology</i> , 2019, 1996, 47-51.	0.4	3
99	Mitochondrial lipid profiling data of a traumatic optic neuropathy model. <i>Data in Brief</i> , 2020, 30, 105649.	0.5	3
100	Lipidomics dataset of sonication-induced traumatic optic neuropathy in mice. <i>Data in Brief</i> , 2020, 29, 105147.	0.5	3
101	Towards a matrix mechanics framework for dynamic protein network. <i>Systems and Synthetic Biology</i> , 2010, 4, 139-144.	1.0	2
102	Toward failure analyses in systems biology. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2010, 2, 507-517.	6.6	2
103	Protein-Lipid Complex Separation Utilizing a Capillary Electrophoresis System. <i>Methods in Molecular Biology</i> , 2019, 1996, 95-100.	0.4	2
104	Dataset of growth cone-enriched lipidome and proteome of embryonic to early postnatal mouse brain. <i>Data in Brief</i> , 2019, 24, 103865.	0.5	2
105	Tissue protein and lipid alterations in response to metallic impaction. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 2347-2361.	1.2	2
106	Proteomics and systems biology in optic nerve regeneration. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 127, 249-270.	1.0	2
107	Analyses of pseudoexfoliation aqueous humor lipidome. <i>Molecular Omics</i> , 2022, 18, 387-396.	1.4	2
108	Significant upregulation of small heat shock protein α -crystallin in retinal detachment. <i>Experimental Eye Research</i> , 2019, 189, 107811.	1.2	1

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109	Immature and Mature Collagen Crosslinks Quantification Using High-Performance Liquid Chromatography and High-Resolution Mass Spectrometry in Orbitrap. Methods in Molecular Biology, 2019, 1996, 101-111.	0.4	1
110	Analyses of Cholesterol and Derivatives in Ocular Tissues Using LC-MS/MS Methods. Methods in Molecular Biology, 2019, 1996, 53-59.	0.4	1
111	Isotopic Ratio Outlier Analysis (IROA) of Aqueous Humor for Metabolites. Methods in Molecular Biology, 2019, 1996, 179-185.	0.4	1
112	Multi-omics insights into neuronal regeneration and re-innervation. Neural Regeneration Research, 2021, 16, 296.	1.6	1
113	Axon regeneration: membrane expansion and lipidomics. Neural Regeneration Research, 2022, 17, 989.	1.6	1
114	Protein Deimination in Aging and Age-Related Diseases with Ocular Manifestations. , 2017, , 241-251.		1
115	Metabolomics dataset of mouse optogenetic axon regeneration after optic nerve crush. Data in Brief, 2022, 42, 108306.	0.5	1
116	Deimination level and peptidyl arginine deiminase 2 expression are elevated in astrocytes with increased incubation temperature. Journal of Neuroscience Research, 2015, 93, Spc1-Spc1.	1.3	0
117	Bioinformatics Pertinent to Lipid Analysis in Biological Samples. Methods in Molecular Biology, 2017, 1609, 141-147.	0.4	0
118	HSD18B7 Enzyme Assay Technique Using a Triple Quadrupole Mass Spectrometer. Methods in Molecular Biology, 2019, 1996, 155-159.	0.4	0
119	Chemical Modification and Mass Spectrometric Approaches for Detection of Brain Protein Deimination. , 2017, , 253-273.		0
120	Assessment of Transport of Lipid Metabolites Within Trabecular Meshwork Cells. Methods in Molecular Biology, 2019, 1996, 187-197.	0.4	0
121	Labeled quantitative proteomics dataset of optogenetics induced axon regeneration in mice. Data in Brief, 2022, 42, 108304.	0.5	0