

Jonathan Brewer

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,216
citations

236612

25
h-index

243296

44
g-index

95
all docs

95
docs citations

95
times ranked

3476
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the sweat resistance of sunscreens. <i>Skin Research and Technology</i> , 2022, 28, 225-235.	0.8	3
2	Evaluation of native and non-native biomaterials for engineering human skin tissue. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	8
3	Fractional CO ₂ laser ablation leads to enhanced permeation of a fluorescent dye in healthy and mycotic nails—An imaging investigation of laser tissue effects and their impact on unguinal drug delivery. <i>Lasers in Surgery and Medicine</i> , 2022, , .	1.1	3
4	Multiple Na,K-ATPase Subunits Colocalize in the Brush Border of Mouse Choroid Plexus Epithelial Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1569.	1.8	2
5	Epidermal Acyl-CoA-binding protein is indispensable for systemic energy homeostasis. <i>Molecular Metabolism</i> , 2021, 44, 101144.	3.0	13
6	In vitro skin model for characterization of sunscreen substantivity upon perspiration. <i>International Journal of Cosmetic Science</i> , 2021, 43, 359-371.	1.2	3
7	Patched regulates lipid homeostasis by controlling cellular cholesterol levels. <i>Nature Communications</i> , 2021, 12, 4898.	5.8	15
8	Substituted 9-Diethylaminobenzo[<i>a</i>]phenoxazin-5-ones (Nile Red Analogues): Synthesis and Photophysical Properties. <i>Journal of Organic Chemistry</i> , 2021, 86, 1471-1488.	1.7	19
9	Water Diffusion in Polymer Composites Probed by Impedance Spectroscopy and Time-Resolved Chemical Imaging. <i>ACS Applied Polymer Materials</i> , 2020, 2, 837-845.	2.0	10
10	Drinking and Water Handling in the Medaka Intestine: A Possible Role of Claudin-15 in Paracellular Absorption?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1853.	1.8	3
11	Vibrational Spectroscopic Characterization and Coherent Anti-Stokes Raman Spectroscopy (CARS) Imaging of Artepillin C. <i>Applied Spectroscopy</i> , 2020, 74, 751-757.	1.2	4
12	Acoustic attenuation spectroscopy and helium ion microscopy study of rehydration of dairy powder. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 600, 124795.	2.3	5
13	Measuring molecular order for lipid membrane phase studies: Linear relationship between Laurdan generalized polarization and deuterium NMR order parameter. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183053.	1.4	25
14	Label free noninvasive spatially resolved NaCl concentration measurements using Coherent Anti-Stokes Raman Scattering microscopy applied to butter. <i>Food Chemistry</i> , 2019, 297, 124881.	4.2	7
15	Strain-Dependent Structural Changes in Major and Minor Ampullate Spider Silk Revealed by Two-Photon Excitation Polarization. <i>Biomacromolecules</i> , 2019, 20, 2384-2391.	2.6	2
16	The nanoscopic molecular pathway through human skin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1226-1233.	1.1	14
17	Accelerated redevelopment of vocal skills is preceded by lasting reorganization of the song motor circuitry. <i>ELife</i> , 2019, 8, .	2.8	15
18	Dynamic Changes in the Protein Localization in the Nuclear Environment in Pancreatic β -Cell after Brief Glucose Stimulation. <i>Journal of Proteome Research</i> , 2018, 17, 1664-1676.	1.8	6

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19	Assessing Collagen and Elastin Pressure-dependent Microarchitectures in Live, Human Resistance Arteries by Label-free Fluorescence Microscopy. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	6
20	The diffusion dynamics of PEGylated liposomes in the intact vitreous of the ex vivo porcine eye: A fluorescence correlation spectroscopy and biodistribution study. <i>International Journal of Pharmaceutics</i> , 2017, 522, 90-97.	2.6	38
21	Enzymatic studies on planar supported membranes using a widefield fluorescence LAURDAN Generalized Polarization imaging approach. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 888-895.	1.4	7
22	The impact of interplay between electronic and steric effects on the synthesis and the linear and non-linear optical properties of diketopyrrolopyrrole bearing benzofuran moieties. <i>Organic Chemistry Frontiers</i> , 2017, 4, 724-736.	2.3	24
23	Evidence of proteolipid domain formation in an inner mitochondrial membrane mimicking model. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 969-976.	1.1	8
24	Imaging and modeling of acute pressure-induced changes of collagen and elastin microarchitectures in pig and human resistance arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H164-H178.	1.5	13
25	Mapping charge carrier density in organic thin-film transistors by time-resolved photoluminescence lifetime studies. <i>Organic Electronics</i> , 2017, 49, 69-75.	1.4	3
26	Fundamental constraints in synchronous muscle limit superfast motor control in vertebrates. <i>ELife</i> , 2017, 6, .	2.8	41
27	Superresolution and Fluorescence Dynamics Evidence Reveal That Intact Liposomes Do Not Cross the Human Skin Barrier. <i>PLoS ONE</i> , 2016, 11, e0146514.	1.1	47
28	Two-Photon Excitation STED-FCS with Far-Red Dyes in Tissue - Measuring Diffusion in Stratum Corneum. <i>Biophysical Journal</i> , 2016, 110, 488a.	0.2	0
29	Multiphoton STED and FRET in Human Skin: Resolving the Skin Barrier. <i>Biophysical Journal</i> , 2016, 110, 482a-483a.	0.2	0
30	Surface plasmons excited by the photoluminescence of organic nanofibers in hybrid plasmonic systems. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
31	Endothelin-1 shifts the mediator of bradykinin-induced relaxation from NO to H_2O_2 in resistance arteries from patients with cardiovascular disease. <i>British Journal of Pharmacology</i> , 2016, 173, 1653-1664.	2.7	16
32	Spatial distribution and activity of $Na^+ / K^+ -ATPase$ in lipid bilayer membranes with phase boundaries. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1390-1399.	1.4	36
33	Biochemical and Bioimaging Evidence of Cholesterol in Acquired Cholesteatoma. <i>Annals of Otolaryngology and Laryngology</i> , 2016, 125, 627-633.	0.6	6
34	A new approach for a blood-brain barrier model based on phospholipid vesicles: Membrane development and siRNA-loaded nanoparticles permeability. <i>Journal of Membrane Science</i> , 2016, 503, 8-15.	4.1	8
35	"Expanded 1,3-diketones" synthesis, optical properties and application in two-photon polymerization. <i>Journal of Materials Chemistry C</i> , 2016, 4, 167-177.	2.7	28
36	Nanostructure induced changes in lifetime and enhanced second-harmonic response of organic-plasmonic hybrids. <i>Applied Physics Letters</i> , 2015, 107, 251102.	1.5	5

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37	Enzyme-Free Detection of Mutations in Cancer DNA Using Synthetic Oligonucleotide Probes and Fluorescence Microscopy. PLoS ONE, 2015, 10, e0136720.	1.1	15
38	Elastin Organization in Pig and Cardiovascular Disease Patients' Pericardial Resistance Arteries. Journal of Vascular Research, 2015, 52, 1-11.	0.6	21
39	Slow Relaxation of Shape and Orientational Texture in Membrane Gel Domains. Langmuir, 2015, 31, 12699-12707.	1.6	6
40	Orientational Texture of Membrane Domains: Effect of Lipid Composition and Binding of a Bacterial Toxin. Biophysical Journal, 2015, 108, 18a-19a.	0.2	0
41	Preparing giant unilamellar vesicles (GUVs) of complex lipid mixtures on demand: Mixing small unilamellar vesicles of compositionally heterogeneous mixtures. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 3175-3180.	1.4	45
42	Local field enhanced second-harmonic response of organic nanofibers deposited on encapsulated plasmonic substrates. Proceedings of SPIE, 2015, , .	0.8	1
43	Tight Coupling of Metabolic Oscillations and Intracellular Water Dynamics in Saccharomyces cerevisiae. PLoS ONE, 2015, 10, e0117308.	1.1	32
44	Effect of detergents on the physicochemical properties of skin stratum corneum: a two-photon excitation fluorescence microscopy study. International Journal of Cosmetic Science, 2014, 36, 39-45.	1.2	8
45	Tetraaryl-, Pentaaryl-, and Hexaaryl-1,4-dihydropyrrolo[3,2- <i>b</i>]pyrroles: Synthesis and Optical Properties. Journal of Organic Chemistry, 2014, 79, 3119-3128.	1.7	71
46	Systematic Variation of Gel-Phase Texture in Phospholipid Membranes. Langmuir, 2014, 30, 10678-10685.	1.6	10
47	Exposure to silver nanoparticles induces size- and dose-dependent oxidative stress and cytotoxicity in human colon carcinoma cells. Toxicology in Vitro, 2014, 28, 1280-1289.	1.1	146
48	Quadrupolar, emission-tunable β -expanded 1,4-dihydropyrrolo[3,2- <i>b</i>]pyrroles synthesis and optical properties. Organic and Biomolecular Chemistry, 2014, 12, 2874-2881.	1.5	38
49	Insights into the Cellular Response Triggered by Silver Nanoparticles Using Quantitative Proteomics. ACS Nano, 2014, 8, 2161-2175.	7.3	189
50	Effects of Fluorescent Probes on Lipid Membrane Physical Properties. Biophysical Journal, 2014, 106, 507a-508a.	0.2	2
51	Hydrophobic Mismatch Triggering Texture Defects in Membrane Gel Domains. Journal of Physical Chemistry Letters, 2013, 4, 2789-2793.	2.1	3
52	Membrane Orientation and Lateral Diffusion of BODIPY-Cholesterol as a Function of Probe Structure. Biophysical Journal, 2013, 105, 2082-2092.	0.2	60
53	Spatially Resolved Two-Color Diffusion Measurements in Human Skin Applied to Transdermal Liposome Penetration. Journal of Investigative Dermatology, 2013, 133, 1260-1268.	0.3	56
54	Structural and dynamical aspects of skin studied by multiphoton excitation fluorescence microscopy-based methods. European Journal of Pharmaceutical Sciences, 2013, 50, 586-594.	1.9	14

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55	Single Molecule Applications of Quantum Dots. <i>Journal of Modern Physics</i> , 2013, 04, 27-42.	0.3	9
56	The acyl-CoA binding protein is required for normal epidermal barrier function in mice. <i>Journal of Lipid Research</i> , 2012, 53, 2162-2174.	2.0	29
57	Structural Characterization and Lipid Composition of Acquired Cholesteatoma. <i>Otology and Neurotology</i> , 2012, 33, 177-183.	0.7	18
58	Comparison of Orientational Texture in Lipid Bilayers and Langmuir Monolayers. <i>Biophysical Journal</i> , 2012, 102, 503a.	0.2	0
59	Texture defects in lipid membrane domains. <i>Soft Matter</i> , 2012, 8, 4894.	1.2	19
60	The Human Skin Barrier Is Organized as Stacked Bilayers of Fully Extended Ceramides with Cholesterol Molecules Associated with the Ceramide Sphingoid Moiety. <i>Journal of Investigative Dermatology</i> , 2012, 132, 2215-2225.	0.3	194
61	<i>Escherichia coli</i> Uropathogenesis <i>In Vitro</i> : Invasion, Cellular Escape, and Secondary Infection Analyzed in a Human Bladder Cell Infection Model. <i>Infection and Immunity</i> , 2012, 80, 1858-1867.	1.0	83
62	Sphingomyelinase D Activity in Model Membranes: Structural Effects of in situ Generation of Ceramide-1-Phosphate. <i>PLoS ONE</i> , 2012, 7, e36003.	1.1	25
63	Multi-Color Single Particle Tracking with Quantum Dots. <i>PLoS ONE</i> , 2012, 7, e48521.	1.1	37
64	Lipid Lateral Organization on Giant Unilamellar Vesicles Containing Lipopolysaccharides. <i>Biophysical Journal</i> , 2011, 100, 978-986.	0.2	48
65	Biophysical Evaluation of Food Decontamination Effects on Tissue and Bacteria. <i>Food Biophysics</i> , 2011, 6, 170-182.	1.4	6
66	Potential of ultraviolet wide-field imaging and multiphoton microscopy for analysis of dehydroergosterol in cellular membranes. <i>Microscopy Research and Technique</i> , 2011, 74, 92-108.	1.2	26
67	Second Harmonic Generation Microscopy: A Tool for Spatially and Temporally Resolved Studies of Heat Induced Structural Changes in Meat. <i>Food Biophysics</i> , 2010, 5, 1-8.	1.4	40
68	Nonlinear optical properties of CNHP4 nanofibers: Molecular dipole orientations and two photon absorption cross-sections. <i>Optics Communications</i> , 2010, 283, 1514-1518.	1.0	14
69	Selective Visualization of Fluorescent Sterols in <i>Caenorhabditis elegans</i> by Bleach-Rate-Based Image Segmentation. <i>Traffic</i> , 2010, 11, 440-454.	1.3	39
70	Texture of Membrane Gel Domains. <i>Biophysical Journal</i> , 2010, 98, 230a-231a.	0.2	0
71	Exploring Molecular and Supramolecular Aspects of Sphingomyelin-Containing Membranes Upon Action of Sphingomyelinase D. <i>Biophysical Journal</i> , 2010, 98, 87a.	0.2	0
72	Multiphoton excitation fluorescence microscopy in planar membrane systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1301-1308.	1.4	58

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73	Texture of Lipid Bilayer Domains. <i>Journal of the American Chemical Society</i> , 2009, 131, 14130-14131.	6.6	67
74	Thermotropic behavior and lateral distribution of very long chain sphingolipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1310-1320.	1.4	33
75	Laurdan generalized polarization analysis as a tool in skin diagnostics. <i>Chemistry and Physics of Lipids</i> , 2008, 154, S21.	1.5	0
76	Organic Molecular Nanotechnology. <i>Small</i> , 2008, 4, 176-181.	5.2	93
77	First order optical nonlinearities for organic nanofibers from functionalized para-phenylenes. <i>Optics Communications</i> , 2008, 281, 3892-3896.	1.0	18
78	Device-Oriented Studies on Electrical, Optical and Mechanical Properties of Individual Organic Nanofibers. , 2008, , 301-324.		0
79	Printed second harmonic active organic nanofiber arrays. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
80	Nanoscale optical frequency doublers. <i>SPIE Newsroom</i> , 2007, , .	0.1	0
81	Nanofiber Frequency Doublers. <i>Nano Letters</i> , 2006, 6, 2656-2659.	4.5	66
82	Nanofibers made to order: free floating, transferred and gel-packed organic nanoaggregates. , 2005, , .		9
83	Angular distribution of luminescence from quasi single crystalline organic nanofibers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 4058-4061.	0.8	10
84	A 3D view on free-floating, space-fixed and surface-bound para-phenylene nanofibres. <i>Nanotechnology</i> , 2005, 16, 2396-2401.	1.3	26
85	Light-induced atomic desorption from porous silica. <i>Europhysics Letters</i> , 2004, 67, 983-989.	0.7	42
86	Dynamics of alkali-metal atom photodesorption from polymer thin films. <i>Physical Review A</i> , 2004, 69, .	1.0	12
87	Laser-induced alkali atom desorption from thin sodium films on quartz prisms. <i>Chemical Physics</i> , 2004, 303, 1-6.	0.9	13
88	Pulsed laser desorption of alkali atoms from PDMS thin films. <i>Applied Surface Science</i> , 2004, 228, 40-47.	3.1	18