

Jonathan Brewer

List of Publications by Year in descending order

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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	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
2	Insights into the Cellular Response Triggered by Silver Nanoparticles Using Quantitative Proteomics. <i>ACS Nano</i> , 2014, 8, 2161-2175.	7.3	189
3	Exposure to silver nanoparticles induces size- and dose-dependent oxidative stress and cytotoxicity in human colon carcinoma cells. <i>Toxicology in Vitro</i> , 2014, 28, 1280-1289.	1.1	146
4	Organic Molecular Nanotechnology. <i>Small</i> , 2008, 4, 176-181.	5.2	93
5	<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
6	Tetraaryl-, Pentaaryl-, and Hexaaryl-1,4-dihydropyrrolo[3,2- <i>b</i>]pyrroles: Synthesis and Optical Properties. <i>Journal of Organic Chemistry</i> , 2014, 79, 3119-3128.	1.7	71
7	Texture of Lipid Bilayer Domains. <i>Journal of the American Chemical Society</i> , 2009, 131, 14130-14131.	6.6	67
8	Nanofiber Frequency Doublers. <i>Nano Letters</i> , 2006, 6, 2656-2659.	4.5	66
9	Membrane Orientation and Lateral Diffusion of BODIPY-Cholesterol as a Function of Probe Structure. <i>Biophysical Journal</i> , 2013, 105, 2082-2092.	0.2	60
10	Multiphoton excitation fluorescence microscopy in planar membrane systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1301-1308.	1.4	58
11	Spatially Resolved Two-Color Diffusion Measurements in Human Skin Applied to Transdermal Liposome Penetration. <i>Journal of Investigative Dermatology</i> , 2013, 133, 1260-1268.	0.3	56
12	Lipid Lateral Organization on Giant Unilamellar Vesicles Containing Lipopolysaccharides. <i>Biophysical Journal</i> , 2011, 100, 978-986.	0.2	48
13	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
14	Preparing giant unilamellar vesicles (GUVs) of complex lipid mixtures on demand: Mixing small unilamellar vesicles of compositionally heterogeneous mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 3175-3180.	1.4	45
15	Light-induced atomic desorption from porous silica. <i>Europhysics Letters</i> , 2004, 67, 983-989.	0.7	42
16	Fundamental constraints in synchronous muscle limit superfast motor control in vertebrates. <i>ELife</i> , 2017, 6, .	2.8	41
17	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
18	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

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19	Quadrupolar, emission-tunable π -expanded 1,4-dihydropyrrolo[3,2-b]pyrroles synthesis and optical properties. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2874-2881.	1.5	38
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	Multi-Color Single Particle Tracking with Quantum Dots. <i>PLoS ONE</i> , 2012, 7, e48521.	1.1	37
22	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
23	Thermotropic behavior and lateral distribution of very long chain sphingolipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1310-1320.	1.4	33
24	Tight Coupling of Metabolic Oscillations and Intracellular Water Dynamics in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2015, 10, e0117308.	1.1	32
25	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
26	π -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
27	A 3D view on free-floating, space-fixed and surface-bound para-phenylene nanofibres. <i>Nanotechnology</i> , 2005, 16, 2396-2401.	1.3	26
28	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
29	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
30	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
31	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
32	Elastin Organization in Pig and Cardiovascular Disease Patients' Pericardial Resistance Arteries. <i>Journal of Vascular Research</i> , 2015, 52, 1-11.	0.6	21
33	Texture defects in lipid membrane domains. <i>Soft Matter</i> , 2012, 8, 4894.	1.2	19
34	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
35	Pulsed laser desorption of alkali atoms from PDMS thin films. <i>Applied Surface Science</i> , 2004, 228, 40-47.	3.1	18
36	First order optical nonlinearities for organic nanofibers from functionalized para-phenylenes. <i>Optics Communications</i> , 2008, 281, 3892-3896.	1.0	18

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37	Structural Characterization and Lipid Composition of Acquired Cholesteatoma. <i>Otology and Neurotology</i> , 2012, 33, 177-183.	0.7	18
38	Endothelin ϵ_1 shifts the mediator of bradykinin ϵ_1 -induced relaxation from NO to H ₂ O ₂ in resistance arteries from patients with cardiovascular disease. <i>British Journal of Pharmacology</i> , 2016, 173, 1653-1664.	2.7	16
39	Enzyme-Free Detection of Mutations in Cancer DNA Using Synthetic Oligonucleotide Probes and Fluorescence Microscopy. <i>PLoS ONE</i> , 2015, 10, e0136720.	1.1	15
40	Patched regulates lipid homeostasis by controlling cellular cholesterol levels. <i>Nature Communications</i> , 2021, 12, 4898.	5.8	15
41	Accelerated redevelopment of vocal skills is preceded by lasting reorganization of the song motor circuitry. <i>ELife</i> , 2019, 8, .	2.8	15
42	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
43	Structural and dynamical aspects of skin studied by multiphoton excitation fluorescence microscopy-based methods. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 50, 586-594.	1.9	14
44	The nanoscopic molecular pathway through human skin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1226-1233.	1.1	14
45	Laser-induced alkali atom desorption from thin sodium films on quartz prisms. <i>Chemical Physics</i> , 2004, 303, 1-6.	0.9	13
46	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
47	Epidermal Acyl-CoA-binding protein is indispensable for systemic energy homeostasis. <i>Molecular Metabolism</i> , 2021, 44, 101144.	3.0	13
48	Dynamics of alkali-metal atom photodesorption from polymer thin films. <i>Physical Review A</i> , 2004, 69, .	1.0	12
49	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
50	Systematic Variation of Gel-Phase Texture in Phospholipid Membranes. <i>Langmuir</i> , 2014, 30, 10678-10685.	1.6	10
51	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
52	Nanofibers made to order: free floating, transferred and gel-packed organic nanoaggregates. , 2005, , .		9
53	Single Molecule Applications of Quantum Dots. <i>Journal of Modern Physics</i> , 2013, 04, 27-42.	0.3	9
54	Effect of detergents on the physicochemical properties of skin stratum corneum: a two-photon excitation fluorescence microscopy study. <i>International Journal of Cosmetic Science</i> , 2014, 36, 39-45.	1.2	8

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55	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
56	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
57	Evaluation of native and non-native biomaterials for engineering human skin tissue. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	8
58	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
59	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
60	Biophysical Evaluation of Food Decontamination Effects on Tissue and Bacteria. <i>Food Biophysics</i> , 2011, 6, 170-182.	1.4	6
61	Slow Relaxation of Shape and Orientational Texture in Membrane Gel Domains. <i>Langmuir</i> , 2015, 31, 12699-12707.	1.6	6
62	Biochemical and Bioimaging Evidence of Cholesterol in Acquired Cholesteatoma. <i>Annals of Otology, Rhinology and Laryngology</i> , 2016, 125, 627-633.	0.6	6
63	Dynamic Changes in the Protein Localization in the Nuclear Environment in Pancreatic β^2 -Cell after Brief Glucose Stimulation. <i>Journal of Proteome Research</i> , 2018, 17, 1664-1676.	1.8	6
64	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
65	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
66	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
67	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
68	Hydrophobic Mismatch Triggering Texture Defects in Membrane Gel Domains. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2789-2793.	2.1	3
69	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
70	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
71	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
72	Enhancing the sweat resistance of sunscreens. <i>Skin Research and Technology</i> , 2022, 28, 225-235.	0.8	3

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73	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
74	Printed second harmonic active organic nanofiber arrays. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
75	Effects of Fluorescent Probes on Lipid Membrane Physical Properties. <i>Biophysical Journal</i> , 2014, 106, 507a-508a.	0.2	2
76	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
77	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
78	Local field enhanced second-harmonic response of organic nanofibers deposited on encapsulated plasmonic substrates. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
79	Laurdan generalized polarization analysis as a tool in skin diagnostics. <i>Chemistry and Physics of Lipids</i> , 2008, 154, S21.	1.5	0
80	Texture of Membrane Gel Domains. <i>Biophysical Journal</i> , 2010, 98, 230a-231a.	0.2	0
81	Exploring Molecular and Supramolecular Aspects of Sphingomyelin-Containing Membranes Upon Action of Sphingomyelinase D. <i>Biophysical Journal</i> , 2010, 98, 87a.	0.2	0
82	Comparison of Orientational Texture in Lipid Bilayers and Langmuir Monolayers. <i>Biophysical Journal</i> , 2012, 102, 503a.	0.2	0
83	Orientational Texture of Membrane Domains: Effect of Lipid Composition and Binding of a Bacterial Toxin. <i>Biophysical Journal</i> , 2015, 108, 18a-19a.	0.2	0
84	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
85	Multiphoton STED and FRET in Human Skin: Resolving the Skin Barrier. <i>Biophysical Journal</i> , 2016, 110, 482a-483a.	0.2	0
86	Surface plasmons excited by the photoluminescence of organic nanofibers in hybrid plasmonic systems. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
87	Nanoscale optical frequency doublers. <i>SPIE Newsroom</i> , 2007, , .	0.1	0
88	Device-Oriented Studies on Electrical, Optical and Mechanical Properties of Individual Organic Nanofibers. , 2008, , 301-324.		0