

Matthew R Lockett

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9504081/matthew-r-lockett-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

2,109
citations

24
h-index

45
g-index

59
ext. papers

2,357
ext. citations

7.3
avg, IF

4.8
L-index

#	Paper	IF	Citations
58	Physiologically relevant oxygen tensions differentially regulate hepatotoxic responses in HepG2 cells. <i>Toxicology in Vitro</i> , 2021 , 74, 105156	3.6	1
57	Spatially resolved quantification of drug metabolism and efficacy in 3D paper-based tumor mimics. <i>Analytica Chimica Acta</i> , 2021 , 1186, 339091	6.6	1
56	Tracking the invasion of breast cancer cells in paper-based 3D cultures by OCT motility analysis. <i>Biomedical Optics Express</i> , 2020 , 11, 3181-3194	3.5	4
55	Generating linear oxygen gradients across 3D cell cultures with block-layered oxygen controlled chips (BLOCCs). <i>Analytical Methods</i> , 2020 , 12, 18-24	3.2	5
54	Quantitative Effects of Disorder on Chemically Modified Amorphous Carbon Electrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8038-8047	6.1	4
53	Hypoxia differentially regulates estrogen receptor alpha in 2D and 3D culture formats. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 671, 8-17	4.1	7
52	Mitochondrial Protease ClpP is a Target for the Anticancer Compounds ONC201 and Related Analogues. <i>ACS Chemical Biology</i> , 2019 , 14, 1020-1029	4.9	58
51	Tissue Papers: Leveraging Paper-Based Microfluidics for the Next Generation of 3D Tissue Models. <i>Analytical Chemistry</i> , 2019 , 91, 10916-10926	7.8	23
50	Azide-alkyne click reactions to prepare chemically modified amorphous carbon electrodes. <i>Applied Surface Science</i> , 2019 , 480, 1109-1115	6.7	6
49	Developing a Drug Screening Platform: MALDI-Mass Spectrometry Imaging of Paper-Based Cultures. <i>Analytical Chemistry</i> , 2019 , 91, 15370-15376	7.8	12
48	Paper-based Transwell assays: an inexpensive alternative to study cellular invasion. <i>Analyst, The</i> , 2018 , 144, 206-211	5	18
47	A pH-Sensing Optode for Mapping Spatiotemporal Gradients in 3D Paper-Based Cell Cultures. <i>Analytical Chemistry</i> , 2018 , 90, 2376-2383	7.8	32
46	Mechanistic Insights into UV-Initiated ThiolEne Reactions on Amorphous Carbon Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21854-21860	3.8	6
45	Screening Estrogen Receptor Modulators in a Paper-Based Breast Cancer Model. <i>Analytical Chemistry</i> , 2018 , 90, 11981-11988	7.8	14
44	3D cellular invasion platforms: how do paper-based cultures stack up?. <i>Chemical Communications</i> , 2017 , 53, 7194-7210	5.8	20
43	Paper-based Invasion Assays for Quantifying Cellular Movement in Three-dimensional Tissue-like Structures. <i>Current Protocols in Chemical Biology</i> , 2017 , 9, 75-95	1.8	13
42	Assessing chemotherapeutic effectiveness using a paper-based tumor model. <i>Analyst, The</i> , 2017 , 142, 2819-2827	5	24

41	Real-time imaging of cancer cell chemotaxis in paper-based scaffolds. <i>Analyst, The</i> , 2016 , 141, 661-8	5	39
40	Microfabricated Devices for Studying the Metabolism and Cytotoxicity of Drug Candidates. <i>Current Pharmaceutical Biotechnology</i> , 2016 , 17, 755-71	2.6	4
39	Metabolic response of lung cancer cells to radiation in a paper-based 3D cell culture system. <i>Biomaterials</i> , 2016 , 95, 47-59	15.6	49
38	Oxygen as a chemoattractant: confirming cellular hypoxia in paper-based invasion assays. <i>Analyst, The</i> , 2016 , 141, 3874-82	5	21
37	Quantifying oxygen in paper-based cell cultures with luminescent thin film sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 2985-92	4.4	28
36	Thiol-Ene Modified Amorphous Carbon Substrates: Surface Patterning and Chemically Modified Electrode Preparation. <i>Langmuir</i> , 2016 , 32, 10529-10536	4	12
35	A paper-based invasion assay: assessing chemotaxis of cancer cells in gradients of oxygen. <i>Biomaterials</i> , 2015 , 52, 262-71	15.6	111
34	Interactions between Hofmeister anions and the binding pocket of a protein. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3859-66	16.4	76
33	Tracking the Invasion of Small Numbers of Cells in Paper-Based Assays with Quantitative PCR. <i>Analytical Chemistry</i> , 2015 , 87, 11263-70	7.8	28
32	Disulfide-Based Diblock Copolymer Worm Gels: A Wholly-Synthetic Thermoreversible 3D Matrix for Sheet-Based Cultures. <i>Biomacromolecules</i> , 2015 , 16, 3952-8	6.9	53
31	Carbon Substrates: A Stable Foundation for Biomolecular Arrays. <i>Annual Review of Analytical Chemistry</i> , 2015 , 8, 263-85	12.5	7
30	Three-dimensional paper-based model for cardiac ischemia. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1036-43	6.4	102
29	Rectification in tunneling junctions: 2,2'-bipyridyl-terminated n-alkanethiolates. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17155-62	16.4	78
28	Is it the shape of the cavity, or the shape of the water in the cavity?. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 853-891	2.3	101
27	Analyzing forensic evidence based on density with magnetic levitation. <i>Journal of Forensic Sciences</i> , 2013 , 58, 40-5	1.8	46
26	The binding of benzoarylsulfonamide ligands to human carbonic anhydrase is insensitive to formal fluorination of the ligand. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7714-7	16.4	43
25	Filter-based assay for Escherichia coli in aqueous samples using bacteriophage-based amplification. <i>Analytical Chemistry</i> , 2013 , 85, 7213-20	7.8	47
24	The Binding of Benzoarylsulfonamide Ligands to Human Carbonic Anhydrase is Insensitive to Formal Fluorination of the Ligand. <i>Angewandte Chemie</i> , 2013 , 125, 7868-7871	3.6	11

23	Water networks contribute to enthalpy/entropy compensation in protein-ligand binding. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15579-84	16.4	230
22	Fabrication of oligonucleotide and protein arrays on rigid and flexible substrates coated with reactive polymer multilayers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 351-9	9.5	17
21	In situ Synthesis of Oligonucleotide Arrays on Surfaces Coated with Crosslinked Polymer Multilayers. <i>Chemistry of Materials</i> , 2012 , 24, 939-945	9.6	10
20	Selective precipitation and purification of monovalent proteins using oligovalent ligands and ammonium sulfate. <i>Bioconjugate Chemistry</i> , 2012 , 23, 293-9	6.3	10
19	RNA-Mediated Gene Assembly from DNA Arrays. <i>Angewandte Chemie</i> , 2012 , 124, 4706-4710	3.6	3
18	RNA-mediated gene assembly from DNA arrays. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4628-32	16.4	8
17	Hydroxycarboxylic acid-derived organosulfates: synthesis, stability, and quantification in ambient aerosol. <i>Environmental Science & Technology</i> , 2011 , 45, 6468-74	10.3	87
16	Reply to Comment on Hydroxycarboxylic Acid-Derived Organosulfates: Synthesis, Stability and Quantification in Ambient Aerosol. <i>Environmental Science & Technology</i> , 2011 , 45, 9111-9111	10.3	1
15	Mechanism of the hydrophobic effect in the biomolecular recognition of arylsulfonamides by carbonic anhydrase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17889-94	11.5	268
14	The Formation and Stability of Alkylthiol Monolayers on Carbon Substrates. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12635-12641	3.8	12
13	Halogenation of carbon substrates for increased reactivity with alkenes. <i>Langmuir</i> , 2010 , 26, 16642-6	4	5
12	Attaching Molecules to Chlorinated and Brominated Amorphous Carbon Substrates via Grignard Reactions. <i>Langmuir</i> , 2009 , 25, 3340-3343	4	28
11	Fabrication and characterization of DNA arrays prepared on carbon-on-metal substrates. <i>Analytical Chemistry</i> , 2009 , 81, 6429-37	7.8	23
10	Rapid determination of RNA accessible sites by surface plasmon resonance detection of hybridization to DNA arrays. <i>Analytical Chemistry</i> , 2009 , 81, 8949-56	7.8	23
9	Acyl chloride-modified amorphous carbon substrates for the attachment of alcohol-, thiol-, and amine-containing molecules. <i>Langmuir</i> , 2009 , 25, 5120-6	4	16
8	Attaching molecules to chlorinated and brominated amorphous carbon substrates via Grignard reactions. <i>Langmuir</i> , 2009 , 25, 3340-3	4	
7	A tetrafluorophenyl activated ester self-assembled monolayer for the immobilization of amine-modified oligonucleotides. <i>Langmuir</i> , 2008 , 24, 69-75	4	55
6	Carbon-on-metal films for surface plasmon resonance detection of DNA arrays. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8611-3	16.4	54

5	Aldehyde-terminated amorphous carbon substrates for the fabrication of biomolecule arrays. <i>Langmuir</i> , 2008 , 24, 9198-203	4	15
4	In situ oligonucleotide synthesis on carbon materials: stable substrates for microarray fabrication. <i>Nucleic Acids Research</i> , 2008 , 36, e7	20.1	30
3	Molecular beacon-style hybridization assay for quantitative analysis of surface invasive cleavage reactions. <i>Analytical Chemistry</i> , 2007 , 79, 6031-6	7.8	9
2	Characterization of vascular endothelial growth factor receptors on the endothelial cell surface during hypoxia using whole cell binding arrays. <i>Analytical Biochemistry</i> , 2007 , 369, 241-7	3.1	10
1	Covalent photochemical functionalization of amorphous carbon thin films for integrated real-time biosensing. <i>Langmuir</i> , 2006 , 22, 9598-605	4	90