Ryan S Renslow

List of Publications by Year
in descending order

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		186265	206112
67	2,518	28	48
papers	citations	h-index	g-index

70	70	70	3538
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NP-MRD: the Natural Products Magnetic Resonance Database. Nucleic Acids Research, 2022, 50, D665-D677.	14.5	39
2	Proton Affinity Values of Fentanyl and Fentanyl Analogues Pertinent to Ambient Ionization and Detection. Journal of the American Society for Mass Spectrometry, 2022, 33, 482-490.	2.8	6
3	DEIMoS: An Open-Source Tool for Processing High-Dimensional Mass Spectrometry Data. Analytical Chemistry, 2022, 94, 6130-6138.	6.5	14
4	A Practical Guide to Metabolomics Software Development. Analytical Chemistry, 2021, 93, 1912-1923.	6.5	30
5	Ligand- and Structure-Based Analysis of Deep Learning-Generated Potential Î±2a Adrenoceptor Agonists. Journal of Chemical Information and Modeling, 2021, 61, 481-492.	5.4	1
6	Exploring the Impacts of Conformer Selection Methods on Ion Mobility Collision Cross Section Predictions. Analytical Chemistry, 2021, 93, 3830-3838.	6.5	8
7	Quantum Chemistry Calculations for Metabolomics. Chemical Reviews, 2021, 121, 5633-5670.	47.7	47
8	Application and assessment of deep learning for the generation of potential NMDA receptor antagonists. Physical Chemistry Chemical Physics, 2021, 23, 1197-1214.	2.8	9
9	An Introduction to the Benchmarking and Publications for Non-Targeted Analysis Working Group. Analytical Chemistry, 2021, 93, 16289-16296.	6.5	30
10	Mass Spectrometry Adduct Calculator. Journal of Chemical Information and Modeling, 2021, 61, 5721-5725.	5.4	7
11	Deep Learning to Generate in Silico Chemical Property Libraries and Candidate Molecules for Small Molecule Identification in Complex Samples. Analytical Chemistry, 2020, 92, 1720-1729.	6.5	62
12	Soil microbial EPS resiliency is influenced by carbon source accessibility. Soil Biology and Biochemistry, 2020, 151, 108037.	8.8	17
13	Nitrogen Source Governs Community Carbon Metabolism in a Model Hypersaline Benthic Phototrophic Biofilm. MSystems, 2020, 5, .	3.8	4
14	Waterâ€dispersible nanocolloids and higher temperatures promote the release of carbon from riparian soil. Vadose Zone Journal, 2020, 19, e20077.	2.2	2
15	Chespa: Streamlining Expansive Chemical Space Evaluation of Molecular Sets. Journal of Chemical Information and Modeling, 2020, 60, 6251-6257.	5.4	2
16	Non-destructive spatial analysis of phosphatase activity and total protein distribution in the rhizosphere using a root blotting method. Soil Biology and Biochemistry, 2020, 146, 107820.	8.8	6
17	Monitoring Electron Transfer Rates of Electrode-Respiring Cells. , 2020, , 76-84.		0
18	Evaluation of In Silico Multifeature Libraries for Providing Evidence for the Presence of Small Molecules in Synthetic Blinded Samples. Journal of Chemical Information and Modeling, 2019, 59, 4052-4060.	5.4	13

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19	Metabolic effects of vitamin B12 on physiology, stress resistance, growth rate and biomass productivity of Cyanobacterium stanieri planktonic and biofilm cultures. Algal Research, 2019, 42, 101580.	4.6	2
20	SLIM Ultrahigh Resolution Ion Mobility Spectrometry Separations of Isotopologues and Isotopomers Reveal Mobility Shifts due to Mass Distribution Changes. Analytical Chemistry, 2019, 91, 11952-11962.	6.5	76
21	New mass spectrometry technologies contributing towards comprehensive and high throughput omics analyses of single cells. Analyst, The, 2019, 144, 794-807.	3.5	67
22	ISiCLE: A Quantum Chemistry Pipeline for Establishing in Silico Collision Cross Section Libraries. Analytical Chemistry, 2019, 91, 4346-4356.	6.5	74
23	High-resolution elemental mapping of the root-rhizosphere-soil continuum using laser-induced breakdown spectroscopy (LIBS). Soil Biology and Biochemistry, 2019, 131, 119-132.	8.8	39
24	Isolation of Tryptanthrin and Reassessment of Evidence for Its Isobaric Isostere Wrightiadione in Plants of theWrightiaGenus. Journal of Natural Products, 2019, 82, 440-448.	3.0	13
25	Structural and metabolic responses of Staphylococcus aureus biofilms to hyperosmotic and antibiotic stress. Biotechnology and Bioengineering, 2018, 115, 1594-1603.	3.3	11
26	NanoSIMS for biological applications: Current practices and analyses. Biointerphases, 2018, 13, 03B301.	1.6	147
27	Efficient discrimination of natural stereoisomers of chicoric acid, an HIV-1 integrase inhibitor. Journal of Photochemistry and Photobiology B: Biology, 2018, 189, 258-266.	3.8	13
28	An automated framework for NMR chemical shift calculations of small organic molecules. Journal of Cheminformatics, 2018, 10, 52.	6.1	37
29	Optimizing colormaps with consideration for color vision deficiency to enable accurate interpretation of scientific data. PLoS ONE, 2018, 13, e0199239.	2.5	101
30	Structural Elucidation of cis/trans Dicaffeoylquinic Acid Photoisomerization Using Ion Mobility Spectrometry-Mass Spectrometry. Journal of Physical Chemistry Letters, 2017, 8, 1381-1388.	4.6	45
31	Toward high-resolution NMR spectroscopy of microscopic liquid samples. Physical Chemistry Chemical Physics, 2017, 19, 14256-14261.	2.8	6
32	PIXiE: an algorithm for automated ion mobility arrival time extraction and collision cross section calculation using global data association. Bioinformatics, 2017, 33, 2715-2722.	4.1	10
33	In situ nuclear magnetic resonance microimaging of live biofilms in a microchannel. Analyst, The, 2017, 142, 2363-2371.	3.5	29
34	Integrating ion mobility spectrometry into mass spectrometry-based exposome measurements: what can it add and how far can it go?. Bioanalysis, 2017, 9, 81-98.	1.5	66
35	High-resolution microstrip NMR detectors for subnanoliter samples. Physical Chemistry Chemical Physics, 2017, 19, 28163-28174.	2.8	12
36	Trade-offs between microbiome diversity and productivity in a stratified microbial mat. ISME Journal, 2017, 11, 405-414.	9.8	26

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37	Enhancing glycan isomer separations with metal ions and positive and negative polarity ion mobility spectrometry-mass spectrometry analyses. Analytical and Bioanalytical Chemistry, 2017, 409, 467-476.	3.7	78
38	Organismal and spatial partitioning of energy and macronutrient transformations within a hypersaline mat. FEMS Microbiology Ecology, 2017, 93, .	2.7	23
39	Modeling Substrate Utilization, Metabolite Production, and Uranium Immobilization in Shewanella oneidensis Biofilms. Frontiers in Environmental Science, 2017, 5, .	3.3	9
40	A Generalized Spatial Measure for Resilience of Microbial Systems. Frontiers in Microbiology, 2016, 7, 443.	3.5	3
41	Quantifying element incorporation in multispecies biofilms using nanoscale secondary ion mass spectrometry image analysis. Biointerphases, 2016, 11, 02A322.	1.6	20
42	SPE-IMS-MS: An automated platform for sub-sixty second surveillance of endogenous metabolites and xenobiotics in biofluids. Clinical Mass Spectrometry, 2016, 2, 1-10.	1.9	63
43	Precursor Ionâ€“Ion Aggregation in the Brustâ€“Schiffrin Synthesis of Alkanethiol Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 19837-19847.	3.1	16
44	Vancomycin and maltodextrin affect structure and activity of Staphylococcus aureus biofilms. Biotechnology and Bioengineering, 2015, 112, 2562-2570.	3.3	15
45	Regulation of electron transfer processes affects phototrophic mat structure and activity. Frontiers in Microbiology, 2015, 6, 909.	3.5	11
46	Integrating Ecological and Engineering Concepts of Resilience in Microbial Communities. Frontiers in Microbiology, 2015, 6, 1298.	3.5	62
47	Colonization of Epidermal Tissue by Staphylococcus aureus Produces Localized Hypoxia and Stimulates Secretion of Antioxidant and Caspase-14 Proteins. Infection and Immunity, 2015, 83, 3026-3034.	2.2	14
48	The mechanism of neutral red-mediated microbial electrosynthesis in Escherichia coli: menaquinone reduction. Bioresource Technology, 2015, 192, 689-695.	9.6	69
49	Excess surface area in bioelectrochemical systems causes ion transport limitations. Biotechnology and Bioengineering, 2015, 112, 858-866.	3.3	11
50	Staphylococcus aureus Induces Hypoxia and Cellular Damage in Porcine Dermal Explants. Infection and Immunity, 2015, 83, 2531-2541.	2.2	52
51	Phototrophic biofilm assembly in microbial-mat-derived unicyanobacterial consortia: model systems for the study of autotroph-heterotroph interactions. Frontiers in Microbiology, 2014, 5, 109.	3.5	97
52	A biofilm microreactor system for simultaneous electrochemical and nuclear magnetic resonance techniques. Water Science and Technology, 2014, 69, 966-973.	2.5	14
53	Reconstruction of biofilm images: combining local and global structural parameters. Biofouling, 2014, 30, 1141-1154.	2.2	6
54	Spatially tracking ¹³<scp>C</scp>â€labelled substrate (bicarbonate) accumulation in microbial communities using laser ablation isotope ratio mass spectrometry. Environmental Microbiology Reports, 2014, 6, 786-791.	2.4	17

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55	Modeling biofilms with dual extracellular electron transfer mechanisms. Physical Chemistry Chemical Physics, 2013, 15, 19262.	2.8	70
56	Diffusion in biofilms respiring on electrodes. Energy and Environmental Science, 2013, 6, 595-607.	30.8	95
57	Metabolic spatial variability in electrode-respiring Geobacter sulfurreducens biofilms. Energy and Environmental Science, 2013, 6, 1827.	30.8	73
58	The epsomitic phototrophic microbial mat of Hot Lake, Washington: community structural responses to seasonal cycling. Frontiers in Microbiology, 2013, 4, 323.	3.5	75
59	Integration of Electrochemical Methods with Magnetic Resonance and Electron Microscopies for the Study of Geobacter sulfurreducens Biofilms. Microscopy and Microanalysis, 2012, 18, 14-15.	0.4	0
60	Biofilm shows spatially stratified metabolic responses to contaminant exposure. Environmental Microbiology, 2012, 14, 2901-2910.	3.8	44
61	Electrochemically active biofilms: facts and fiction. A review. Biofouling, 2012, 28, 789-812.	2.2	183
62	pH, redox potential and local biofilm potential microenvironments within Geobacter sulfurreducens biofilms and their roles in electron transfer. Biotechnology and Bioengineering, 2012, 109, 2651-2662.	3.3	112
63	A voltammetric flavin microelectrode for use in biofilms. Sensors and Actuators B: Chemical, 2012, 161, 929-937.	7.8	28
64	Oxygen reduction kinetics on graphite cathodes in sediment microbial fuel cells. Physical Chemistry Chemical Physics, 2011, 13, 21573.	2.8	53
65	Biofilm image reconstruction for assessing structural parameters. Biotechnology and Bioengineering, 2011, 108, 1383-1394.	3.3	23
66	Increasing parvovirus filter throughput of monoclonal antibodies using ion exchange membrane adsorptive preâ€filtration. Biotechnology and Bioengineering, 2010, 106, 627-637.	3.3	33
67	In situ effective diffusion coefficient profiles in live biofilms using pulsedâ€field gradient nuclear magnetic resonance. Biotechnology and Bioengineering, 2010, 106, 928-937.	3.3	76