Peter C St John

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6189577/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Biochemical Production with Purified Cell-Free Systems. Biochemical Engineering Journal, 2021, 166, 107002.	3.6	7
2	Elucidating the chemical pathways responsible for the sooting tendency of 1 and 2-phenylethanol. Proceedings of the Combustion Institute, 2021, 38, 1327-1334.	3.9	7
3	Understanding how chemical structure affects ignition-delay-time <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mi>i-</mml:mi>-sensitivity. Combustion and Flame, 2021, 225, 377-387.</mml:math 	5.2	7
4	A comparison of computational models for predicting yield sooting index. Proceedings of the Combustion Institute, 2021, 38, 1385-1393.	3.9	17
5	Investigation of structural effects of aromatic compounds on sooting tendency with mechanistic insight into ethylphenol isomers. Proceedings of the Combustion Institute, 2021, 38, 1143-1151.	3.9	10
6	Real-time prediction of ¹ H and ¹³ C chemical shifts with DFT accuracy using a 3D graph neural network. Chemical Science, 2021, 12, 12012-12026.	7.4	50
7	Advances in integrative structural biology: Towards understanding protein complexes in their cellular context. Computational and Structural Biotechnology Journal, 2021, 19, 214-225.	4.1	23
8	Importance of Engineered and Learned Molecular Representations in Predicting Organic Reactivity, Selectivity, and Chemical Properties. Accounts of Chemical Research, 2021, 54, 827-836.	15.6	47
9	Thermodynamic and Kinetic Modeling of Co-utilization of Glucose and Xylose for 2,3-BDO Production by Zymomonas mobilis. Frontiers in Bioengineering and Biotechnology, 2021, 9, 707749.	4.1	3
10	Property predictions demonstrate that structural diversity can improve the performance of polyoxymethylene ethers as potential bio-based diesel fuels. Fuel, 2021, 295, 120509.	6.4	21
11	Predicting energy and stability of known and hypothetical crystals using graph neural network. Patterns, 2021, 2, 100361.	5.9	16
12	A quantitative metric for organic radical stability and persistence using thermodynamic and kinetic features. Chemical Science, 2021, 12, 13158-13166.	7.4	30
13	Bayesian Inference for Integrating <i>Yarrowia lipolytica</i> Multiomics Datasets with Metabolic Modeling. ACS Synthetic Biology, 2021, 10, 2968-2981.	3.8	4
14	Quantum chemical calculations for over 200,000 organic radical species and 40,000 associated closed-shell molecules. Scientific Data, 2020, 7, 244.	5.3	49
15	Prediction of Hydroxymethylfurfural Yield in Glucose Conversion through Investigation of Lewis Acid and Organic Solvent Effects. ACS Catalysis, 2020, 10, 14707-14721.	11.2	41
16	Towards quantitative prediction of ignition-delay-time sensitivity on fuel-to-air equivalence ratio. Combustion and Flame, 2020, 214, 103-115.	5.2	16
17	Prediction of organic homolytic bond dissociation enthalpies at near chemical accuracy with sub-second computational cost. Nature Communications, 2020, 11, 2328.	12.8	128
18	A perspective on biomass-derived biofuels: From catalyst design principles to fuel properties. Journal of Hazardous Materials, 2020, 400, 123198.	12.4	23

Peter C St John

#	Article	IF	CITATIONS
19	Software and Methods for Computational Flux Balance Analysis. Methods in Molecular Biology, 2020, 2096, 165-177.	0.9	0
20	Sooting tendencies of co-optima test gasolines and their surrogates. Proceedings of the Combustion Institute, 2019, 37, 961-968.	3.9	39
21	Experimental and theoretical insight into the soot tendencies of the methylcyclohexene isomers. Proceedings of the Combustion Institute, 2019, 37, 1083-1090.	3.9	13
22	Bayesian inference of metabolic kinetics from genome-scale multiomics data. PLoS Computational Biology, 2019, 15, e1007424.	3.2	29
23	Tailoring diesel bioblendstock from integrated catalytic upgrading of carboxylic acids: a "fuel property first―approach. Green Chemistry, 2019, 21, 5813-5827.	9.0	25
24	Development of a Data-Derived Sooting Index Including Oxygen-Containing Fuel Components. Energy & Fuels, 2019, 33, 10290-10296.	5.1	2
25	Message-passing neural networks for high-throughput polymer screening. Journal of Chemical Physics, 2019, 150, 234111.	3.0	63
26	Impact of ethanol blending into gasoline on aromatic compound evaporation and particle emissions from a gasoline direct injection engine. Applied Energy, 2019, 250, 1618-1631.	10.1	35
27	Innovative Chemicals and Materials from Bacterial Aromatic Catabolic Pathways. Joule, 2019, 3, 1523-1537.	24.0	142
28	Approaches to Computational Strain Design in the Multiomics Era. Frontiers in Microbiology, 2019, 10, 597.	3.5	17
29	Performance-advantaged ether diesel bioblendstock production by a priori design. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26421-26430.	7.1	39
30	Measuring and predicting sooting tendencies of oxygenates, alkanes, alkenes, cycloalkanes, and aromatics on a unified scale. Combustion and Flame, 2018, 190, 349-364.	5.2	122
31	Prediction of reaction knockouts to maximize succinate production by Actinobacillus succinogenes. PLoS ONE, 2018, 13, e0189144.	2.5	12
32	Metabolic Engineering of Actinobacillus succinogenes Provides Insights into Succinic Acid Biosynthesis. Applied and Environmental Microbiology, 2017, 83, .	3.1	47
33	Estimation of the Maximum Theoretical Productivity of Fed-Batch Bioreactors * *This work was funded by the US Department of Energy's Bioen-ergy Technologies Office (DOE-BETO), Contract No. DE-AC36-08GO28308 with the National Renewable Energy Laboratory. IFAC-PapersOnLine, 2017, 50, 9883-9888.	0.9	0
34	Efficient estimation of the maximum metabolic productivity of batch systems. Biotechnology for Biofuels, 2017, 10, 28.	6.2	11
35	A Quantitative Model for the Prediction of Sooting Tendency from Molecular Structure. Energy & Fuels, 2017, 31, 9983-9990.	5.1	42
36	Functional network inference of the suprachiasmatic nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4512-4517.	7.1	64

Peter C St John

#	Article	IF	CITATIONS
37	Succinic acid production from lignocellulosic hydrolysate by Basfia succiniciproducens. Bioresource Technology, 2016, 214, 558-566.	9.6	63
38	Quantifying Stochastic Noise in Cultured Circadian Reporter Cells. PLoS Computational Biology, 2015, 11, e1004451.	3.2	14
39	A Coupled Stochastic Model Explains Differences in Cry Knockout Behavior. IEEE Life Sciences Letters, 2015, 1, 3-6.	1.2	6
40	Systems Biology. , 2014, , 159-187.		3
41	Spatiotemporal separation of PER and CRY posttranslational regulation in the mammalian circadian clock. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2040-2045.	7.1	55
42	Amplitude Metrics for Cellular Circadian Bioluminescence Reporters. Biophysical Journal, 2014, 107, 2712-2722.	0.5	106
43	Estimating confidence intervals in predicted responses for oscillatory biological models. BMC Systems Biology, 2013, 7, 71.	3.0	10
44	Identification of Small Molecule Activators of Cryptochrome. Science, 2012, 337, 1094-1097.	12.6	408
45	Modification of silk fibroin using diazonium coupling chemistry and the effects on hMSC proliferation and differentiation. Biomaterials, 2008, 29, 2829-2838.	11.4	243