

# J Timothy Bays

## List of Publications by Year in descending order

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27  
papers

1,085  
citations

567281

15  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Maximizing net fuel economy improvement from fusel alcohol blends in gasoline using multivariate optimization. Fuel Communications, 2022, 11, 100059.	5.2	3
2	Development of robust models for the prediction of Reid vapor pressure (RVP) in fuel blends and their application to oxygenated biofuels using the SAFT- $\rho$ approach. Fuel, 2021, 283, 118624.	6.4	10
3	High-pressure apparatus for monitoring solid-liquid phase transitions. Review of Scientific Instruments, 2020, 91, 094102.	1.3	1
4	Methodology for the Development of Empirical Models Relating $^{13}\text{C}$ NMR Spectral Features to Fuel Properties. Energy & Fuels, 2020, 34, 12556-12572.	5.1	2
5	Superior performance biodiesel from biomass-derived fusel alcohols and low grade oils: Fatty acid fusel esters (FAFE). Fuel, 2020, 268, 117408.	6.4	15
6	Evaluating the impacts of amino acids in the second and outer coordination spheres of Rh-bis(diphosphine) complexes for $\text{CO}_2$ hydrogenation. Faraday Discussions, 2019, 215, 123-140.	3.2	11
7	Octane-On-Demand: Onboard Separation of Oxygenates from Gasoline. Energy & Fuels, 2019, 33, 1869-1881.	5.1	7
8	Measuring and predicting the vapor pressure of gasoline containing oxygenates. Fuel, 2019, 243, 630-644.	6.4	37
9	Discovery of novel octane hyperboosting phenomenon in pre-nol biofuel/gasoline blends. Fuel, 2019, 239, 1143-1148.	6.4	46
10	Autoignition and select properties of low sample volume thermochemical mixtures from renewable sources. Fuel, 2019, 238, 493-506.	6.4	6
11	Improved explosive collection and detection with rationally assembled surface sampling materials. RSC Advances, 2016, 6, 94476-94485.	3.6	12
12	Highly branched polyethylenes as lubricant viscosity and friction modifiers. Reactive and Functional Polymers, 2016, 109, 52-55.	4.1	30
13	Probing the molecular design of hyper-branched aryl polyesters towards lubricant applications. Scientific Reports, 2016, 6, 18624.	3.3	27
14	Diesel Surrogate Fuels for Engine Testing and Chemical-Kinetic Modeling: Compositions and Properties. Energy & Fuels, 2016, 30, 1445-1461.	5.1	137
15	Aqueous phase hydrodeoxygenation of polyols over Pd/ $\text{WO}_3$ -ZrO $_2$ : Role of Pd- $\text{WO}_3$ interaction and hydrodeoxygenation pathway. Catalysis Today, 2016, 269, 103-109.	4.4	20
16	Photoswitching a molecular catalyst to regulate $\text{CO}_2$ hydrogenation. Dalton Transactions, 2015, 44, 14854-14864.	3.3	17
17	Design of low-cost ionic liquids for lignocellulosic biomass pretreatment. Green Chemistry, 2015, 17, 1728-1734.	9.0	384
18	The Influence of the Second and Outer Coordination Spheres on Rh(diphosphine) $_2$ $\text{CO}_2$ Hydrogenation Catalysts. ACS Catalysis, 2014, 4, 3663-3670.	11.2	37

#	ARTICLE	IF	CITATIONS
19	Optical orbital debris spotter. <i>Acta Astronautica</i> , 2014, 104, 99-105.	3.2	25
20	The effects of elevated carbon dioxide levels on a <i>Vibrio</i> sp. isolated from the deep-sea. <i>Environmental Science and Pollution Research</i> , 2010, 17, 1009-1015.	5.3	18
21	Advancements Toward the Greener Processing of Engineered Nanomaterials—Effect of Core Size on the Dispersibility and Transport of Gold Nanocrystals in Near-Critical Solvents. <i>Small</i> , 2009, 5, 961-969.	10.0	8
22	Effect of the Ligand Shell Composition on the Dispersibility and Transport of Gold Nanocrystals in Near-Critical Solvents. <i>Langmuir</i> , 2009, 25, 4900-4906.	3.5	10
23	Influence of Surface Characteristics on the Stability of <i>Cryptosporidium parvum</i> Oocysts. <i>Applied and Environmental Microbiology</i> , 2003, 69, 3819-3825.	3.1	38
24	Radical and Non-Radical Mechanisms for Alkane Oxidations by Hydrogen Peroxide—Trifluoroacetic Acid. <i>Journal of Organic Chemistry</i> , 2001, 66, 789-795.	3.2	18
25	Solvent Study of the Kinetics of Molybdenum Radical Self-Termination. <i>Organometallics</i> , 2001, 20, 401-407.	2.3	15
26	A Kinetic Study of the Thermal Loss of Ethylene from $CpNb(CO)_3(\eta^2-C_2H_4)$ in Supercritical Fluid Solvents. <i>Journal of the American Chemical Society</i> , 1998, 120, 5826-5827.	13.7	15
27	Selection Criteria and Screening of Potential Biomass-Derived Streams as Fuel Blendstocks for Advanced Spark-Ignition Engines. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 10, 442-460.	0.2	130