

# Brian R Pimentel

## List of Publications by Year in descending order

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14  
papers

589  
citations

687363

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1058476

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14  
docs citations

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times ranked

1193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zeolitic Imidazolate Frameworks: Next-Generation Materials for Energy-Efficient Gas Separations. <i>ChemSusChem</i> , 2014, 7, 3202-3240.	6.8	235
2	Re(tBu-bpy)(CO) <sub>3</sub> Cl Supported on Multi-Walled Carbon Nanotubes Selectively Reduces CO <sub>2</sub> in Water. <i>Journal of the American Chemical Society</i> , 2019, 141, 17270-17277.	13.7	64
3	An Immobilized-Rhodium Hollow-Fiber Flow Reactor for Scalable and Sustainable C-H Functionalization in Continuous Flow. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10923-10927.	13.8	52
4	Enabling Kinetic Light Hydrocarbon Separation via Crystal Size Engineering of ZIF-8. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 12467-12476.	3.7	44
5	Correlating lignin structure to aromatic products in the catalytic fast pyrolysis of lignin model compounds containing Î²-O <sup>4</sup> linkages. <i>Catalysis Science and Technology</i> , 2014, 4, 3953-3963.	4.1	33
6	Synthesis of Water-Sensitive Metal-Organic Frameworks within Fiber Sorbent Modules. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 5070-5077.	3.7	30
7	Microscopic diffusion of pure and mixed methane and carbon dioxide in ZIF-11 by high field diffusion NMR. <i>Microporous and Mesoporous Materials</i> , 2017, 248, 158-163.	4.4	22
8	High-Throughput Screening of MOFs for Breakdown of V-Series Nerve Agents. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14672-14677.	8.0	21
9	Sub-ambient air separation via Li <sup>+</sup> exchanged zeolite. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 140-146.	4.4	20
10	Propylene Enrichment via Kinetic Vacuum Pressure Swing Adsorption Using ZIF-8 Fiber Sorbents. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36323-36331.	8.0	16
11	Sorption and Transport of Vapors in ZIF-11: Adsorption, Diffusion, and Linker Flexibility. <i>Journal of Physical Chemistry C</i> , 2019, , .	3.1	16
12	Analysis and utilization of cryogenic sorption isotherms for high free volume glassy polymers. <i>Polymer</i> , 2019, 170, 157-167.	3.8	15
13	An Immobilized-Rhodium Hollow-Fiber Flow Reactor for Scalable and Sustainable C-H Functionalization in Continuous Flow. <i>Angewandte Chemie</i> , 2018, 130, 11089-11093.	2.0	14
14	Remote Detection of HCN, HF, and Nerve Agent Vapors Based on Self-Referencing, Dye-Impregnated Porous Silicon Photonic Crystals. <i>ACS Sensors</i> , 2021, 6, 418-428.	7.8	7