

# Paul Duchesne

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

2,396  
citations

331670

21  
h-index

580821

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals and applications of photocatalytic CO <sub>2</sub> methanation. Nature Communications, 2019, 10, 3169.	12.8	304
2	Principles of photothermal gas-phase heterogeneous CO <sub>2</sub> catalysis. Energy and Environmental Science, 2019, 12, 1122-1142.	30.8	300
3	Cu <sub>2</sub> O nanocubes with mixed oxidation-state facets for (photo)catalytic hydrogenation of carbon dioxide. Nature Catalysis, 2019, 2, 889-898.	34.4	234
4	Black indium oxide a photothermal CO <sub>2</sub> hydrogenation catalyst. Nature Communications, 2020, 11, 2432.	12.8	192
5	Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure. Joule, 2018, 2, 1369-1381.	24.0	148
6	Bismuth atom tailoring of indium oxide surface frustrated Lewis pairs boosts heterogeneous CO <sub>2</sub> photocatalytic hydrogenation. Nature Communications, 2020, 11, 6095.	12.8	129
7	Catalytic CO <sub>2</sub> reduction by palladium-decorated silicon hydride nanosheets. Nature Catalysis, 2019, 2, 46-54.	34.4	116
8	Consequences of Surface Oxophilicity of Ni, Ni-Co, and Co Clusters on Methane Activation. Journal of the American Chemical Society, 2017, 139, 6928-6945.	13.7	104
9	Nickel@Siloxene catalytic nanosheets for high-performance CO <sub>2</sub> methanation. Nature Communications, 2019, 10, 2608.	12.8	104
10	Tailoring Surface Frustrated Lewis Pairs of In <sub>2</sub> O <sub>3</sub> (OH) <sub>y</sub> for Gas-Phase Heterogeneous Photocatalytic Reduction of CO <sub>2</sub> by Isomorphous Substitution of In <sup>3+</sup> with Bi <sup>3+</sup> . Advanced Science, 2018, 5, 1700732.	11.2	91
11	Shining light on CO <sub>2</sub> : from materials discovery to photocatalyst, photoreactor and process engineering. Chemical Society Reviews, 2020, 49, 5648-5663.	38.1	91
12	Hydrogen Spillover to Oxygen Vacancy of TiO <sub>2</sub> /H <sub>2</sub> /Fe: Breaking the Scaling Relationship of Ammonia Synthesis. Journal of the American Chemical Society, 2020, 142, 17403-17412.	13.7	91
13	High-performance light-driven heterogeneous CO <sub>2</sub> catalysis with near-unity selectivity on metal phosphides. Nature Communications, 2020, 11, 5149.	12.8	82
14	Metadynamics-Biased ab Initio Molecular Dynamics Study of Heterogeneous CO <sub>2</sub> Reduction via Surface Frustrated Lewis Pairs. ACS Catalysis, 2016, 6, 7109-7117.	11.2	78
15	Towards Solar Methanol: Past, Present, and Future. Advanced Science, 2019, 6, 1801903.	11.2	63
16	High-Performance, Scalable, and Low-Cost Copper Hydroxyapatite for Photothermal CO <sub>2</sub> Reduction. ACS Catalysis, 2020, 10, 13668-13681.	11.2	55
17	New black indium oxide tandem photothermal CO <sub>2</sub> -H <sub>2</sub> methanol selective catalyst. Nature Communications, 2022, 13, 1512.	12.8	47
18	Cu Atoms on Nanowire Pd/H <sub>2</sub> WO <sub>3</sub> Bronzes Enhance the Solar Reverse Water Gas Shift Reaction. Journal of the American Chemical Society, 2019, 141, 14991-14996.	13.7	40

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19	Enhanced CO <sub>2</sub> Photocatalysis by Indium Oxide Hydroxide Supported on TiN@TiO <sub>2</sub> Nanotubes. Nano Letters, 2021, 21, 1311-1319.	9.1	35
20	Plasmonic Titanium Nitride Facilitates Indium Oxide CO <sub>2</sub> Photocatalysis. Small, 2020, 16, e2005754.	10.0	32
21	ZIF-supported AuCu nanoalloy for ammonia electrosynthesis from nitrogen and thin air. Journal of Materials Chemistry A, 2020, 8, 8868-8874.	10.3	30
22	Building a Bridge from Papermaking to Solar Fuels. Angewandte Chemie - International Edition, 2019, 58, 14850-14854.	13.8	21
23	Building a Bridge from Papermaking to Solar Fuels. Angewandte Chemie, 2019, 131, 14992-14996.	2.0	4
24	Kinetics and Mechanism of Turanite Reduction by Hydrogen. Journal of Physical Chemistry C, 2020, 124, 18356-18365.	3.1	3
25	Flash Solid-Solid Synthesis of Silicon Oxide Nanorods. Small, 2020, 16, 2001435.	10.0	2
26	Frontispiece: Building a Bridge from Papermaking to Solar Fuels. Angewandte Chemie - International Edition, 2019, 58, .	13.8	0
27	Frontispiz: Building a Bridge from Papermaking to Solar Fuels. Angewandte Chemie, 2019, 131, .	2.0	0
28	5th Anniversary Article: Towards Solar Methanol: Past, Present, and Future (Adv. Sci. 8/2019). Advanced Science, 2019, 6, 1970048.	11.2	0