

Paul N Duchesne

List of Publications by Year in descending order

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35
papers

5,385
citations

172457

29
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

8351
citing authors

#	ARTICLE	IF	CITATIONS
1	New black indium oxide tandem photothermal CO ₂ -H ₂ methanol selective catalyst. Nature Communications, 2022, 13, 1512.	12.8	47
2	The next big thing for silicon nanostructures – CO ₂ photocatalysis. Faraday Discussions, 2020, 222, 424-432.	3.2	13
3	High-performance light-driven heterogeneous CO ₂ catalysis with near-unity selectivity on metal phosphides. Nature Communications, 2020, 11, 5149.	12.8	82
4	Bismuth atom tailoring of indium oxide surface frustrated Lewis pairs boosts heterogeneous CO ₂ photocatalytic hydrogenation. Nature Communications, 2020, 11, 6095.	12.8	129
5	High-Performance, Scalable, and Low-Cost Copper Hydroxyapatite for Photothermal CO ₂ Reduction. ACS Catalysis, 2020, 10, 13668-13681.	11.2	55
6	Flash Solid – Solid Synthesis of Silicon Oxide Nanorods. Small, 2020, 16, 2001435.	10.0	2
7	Black indium oxide a photothermal CO ₂ hydrogenation catalyst. Nature Communications, 2020, 11, 2432.	12.8	192
8	Fundamentals and applications of photocatalytic CO ₂ methanation. Nature Communications, 2019, 10, 3169.	12.8	304
9	Cu ₂ O nanocubes with mixed oxidation-state facets for (photo)catalytic hydrogenation of carbon dioxide. Nature Catalysis, 2019, 2, 889-898.	34.4	234
10	Nickel@Siloxene catalytic nanosheets for high-performance CO ₂ methanation. Nature Communications, 2019, 10, 2608.	12.8	104
11	Towards Solar Methanol: Past, Present, and Future. Advanced Science, 2019, 6, 1801903.	11.2	63
12	Principles of photothermal gas-phase heterogeneous CO ₂ catalysis. Energy and Environmental Science, 2019, 12, 1122-1142.	30.8	300
13	Fe Stabilization by Intermetallic L1 ₀ -FePt and Pt Catalysis Enhancement in L1 ₀ -FePt/Pt Nanoparticles for Efficient Oxygen Reduction Reaction in Fuel Cells. Journal of the American Chemical Society, 2018, 140, 2926-2932.	13.7	312
14	Tailoring Surface Frustrated Lewis Pairs of In ₂ O ₃ (OH) _y for Gas-Phase Heterogeneous Photocatalytic Reduction of CO ₂ by Isomorphous Substitution of In ³⁺ with Bi ³⁺ . Advanced Science, 2018, 5, 1700732.	11.2	91
15	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. Applied Catalysis B: Environmental, 2018, 221, 77-85.	20.2	59
16	Golden single-atomic-site platinum electrocatalysts. Nature Materials, 2018, 17, 1033-1039.	27.5	266
17	Solar Fuels: Tailoring Surface Frustrated Lewis Pairs of In ₂ O ₃ (OH) _y for Gas-Phase Heterogeneous Photocatalytic Reduction of CO ₂ by Isomorphous Substitution of In ³⁺ with Bi ³⁺ . (Adv. Sci. 6/2018). Advanced Science. 2018, 5, 1870034.	11.2	3
18	Pd Nanoparticles Coupled to WO _{2.72} Nanorods for Enhanced Electrochemical Oxidation of Formic Acid. Nano Letters, 2017, 17, 2727-2731.	9.1	136

#	ARTICLE	IF	CITATIONS
19	Promoting Effect of Ni(OH) ₂ on Palladium Nanocrystals Leads to Greatly Improved Operation Durability for Electrocatalytic Ethanol Oxidation in Alkaline Solution. <i>Advanced Materials</i> , 2017, 29, 1703057.	21.0	251
20	Amorphous MoS ₃ Infiltrated with Carbon Nanotubes as an Advanced Anode Material of Sodium-Ion Batteries with Large Gravimetric, Areal, and Volumetric Capacities. <i>Advanced Energy Materials</i> , 2017, 7, 1601602.	19.5	164
21	Luminescent Gold Nanoparticles with Size-Independent Emission. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8894-8898.	13.8	126
22	Ultrasmall and phase-pure W ₂ C nanoparticles for efficient electrocatalytic and photoelectrochemical hydrogen evolution. <i>Nature Communications</i> , 2016, 7, 13216.	12.8	334
23	Luminescent Gold Nanoparticles with Size-Independent Emission. <i>Angewandte Chemie</i> , 2016, 128, 9040-9044.	2.0	31
24	A single iron site confined in a graphene matrix for the catalytic oxidation of benzene at room temperature. <i>Science Advances</i> , 2015, 1, e1500462.	10.3	719
25	Copper Phosphate as a Cathode Material for Rechargeable Li Batteries and Its Electrochemical Reaction Mechanism. <i>Chemistry of Materials</i> , 2015, 27, 5736-5744.	6.7	32
26	The surface structure of silver-coated gold nanocrystals and its influence on shape control. <i>Nature Communications</i> , 2015, 6, 7664.	12.8	53
27	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene. <i>Nature Communications</i> , 2015, 6, 10035.	12.8	466
28	Self-Assembly and Chemical Reactivity of Alkenes on Platinum Nanoparticles. <i>Langmuir</i> , 2015, 31, 522-528.	3.5	11
29	Surface Reconstruction and Reactivity of Platinum-Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28861-28867.	3.1	5
30	Element-Specific Analysis of the Growth Mechanism, Local Structure, and Electronic Properties of Pt Clusters Formed on Ag Nanoparticle Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21714-21721.	3.1	12
31	Interfacial Effects in Iron-Nickel Hydroxide-Platinum Nanoparticles Enhance Catalytic Oxidation. <i>Science</i> , 2014, 344, 495-499.	12.6	591
32	Size Effects of Platinum Colloid Particles on the Structure and CO Oxidation Properties of Supported Pt/Fe ₂ O ₃ Catalysts. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21254-21262.	3.1	67
33	In Situ Electrochemical XAFS Studies on an Iron Fluoride High-Capacity Cathode Material for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11498-11505.	3.1	51
34	Local Structure, Electronic Behavior, and Electrocatalytic Reactivity of CO-Reduced Platinum-Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26324-26333.	3.1	40
35	Local structure of fluorescent platinum nanoclusters. <i>Nanoscale</i> , 2012, 4, 4199.	5.6	40