

Paul N Duchesne

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Interfacial Effects in Iron-Nickel Hydroxide@Platinum Nanoparticles Enhance Catalytic Oxidation. <i>Science</i> , 2014, 344, 495-499. | 12.6 | 591 |
| 3 | 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 |
| 4 | 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 |
| 5 | Fe Stabilization by Intermetallic L ₁ -FePt and Pt Catalysis Enhancement in L ₁ -FePt/Pt Nanoparticles for Efficient Oxygen Reduction Reaction in Fuel Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 2926-2932. | 13.7 | 312 |
| 6 | Fundamentals and applications of photocatalytic CO ₂ methanation. <i>Nature Communications</i> , 2019, 10, 3169. | 12.8 | 304 |
| 7 | Principles of photothermal gas-phase heterogeneous CO ₂ catalysis. <i>Energy and Environmental Science</i> , 2019, 12, 1122-1142. | 30.8 | 300 |
| 8 | Golden single-atomic-site platinum electrocatalysts. <i>Nature Materials</i> , 2018, 17, 1033-1039. | 27.5 | 266 |
| 9 | 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 |
| 10 | Cu ₂ O nanocubes with mixed oxidation-state facets for (photo)catalytic hydrogenation of carbon dioxide. <i>Nature Catalysis</i> , 2019, 2, 889-898. | 34.4 | 234 |
| 11 | Black indium oxide a photothermal CO ₂ hydrogenation catalyst. <i>Nature Communications</i> , 2020, 11, 2432. | 12.8 | 192 |
| 12 | 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 |
| 13 | Pd Nanoparticles Coupled to WO _{2.72} Nanorods for Enhanced Electrochemical Oxidation of Formic Acid. <i>Nano Letters</i> , 2017, 17, 2727-2731. | 9.1 | 136 |
| 14 | Bismuth atom tailoring of indium oxide surface frustrated Lewis pairs boosts heterogeneous CO ₂ photocatalytic hydrogenation. <i>Nature Communications</i> , 2020, 11, 6095. | 12.8 | 129 |
| 15 | Luminescent Gold Nanoparticles with Size-Independent Emission. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8894-8898. | 13.8 | 126 |
| 16 | Nickel@Siloxene catalytic nanosheets for high-performance CO ₂ methanation. <i>Nature Communications</i> , 2019, 10, 2608. | 12.8 | 104 |
| 17 | Tailoring Surface Frustrated Lewis Pairs of In ₂ O ₃ for Gas-Phase Heterogeneous Photocatalytic Reduction of CO ₂ by Isomorphous Substitution of In ³⁺ with Bi ³⁺ . <i>Advanced Science</i> , 2018, 5, 1700732. | 11.2 | 91 |
| 18 | High-performance light-driven heterogeneous CO ₂ catalysis with near-unity selectivity on metal phosphides. <i>Nature Communications</i> , 2020, 11, 5149. | 12.8 | 82 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | Towards Solar Methanol: Past, Present, and Future. <i>Advanced Science</i> , 2019, 6, 1801903. | 11.2 | 63 |
| 21 | Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 77-85. | 20.2 | 59 |
| 22 | High-Performance, Scalable, and Low-Cost Copper Hydroxyapatite for Photothermal CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 13668-13681. | 11.2 | 55 |
| 23 | The surface structure of silver-coated gold nanocrystals and its influence on shape control. <i>Nature Communications</i> , 2015, 6, 7664. | 12.8 | 53 |
| 24 | 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 |
| 25 | New black indium oxide tandem photothermal CO ₂ -H ₂ methanol selective catalyst. <i>Nature Communications</i> , 2022, 13, 1512. | 12.8 | 47 |
| 26 | Local structure of fluorescent platinum nanoclusters. <i>Nanoscale</i> , 2012, 4, 4199. | 5.6 | 40 |
| 27 | 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 |
| 28 | 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 |
| 29 | Luminescent Gold Nanoparticles with Size-Independent Emission. <i>Angewandte Chemie</i> , 2016, 128, 9040-9044. | 2.0 | 31 |
| 30 | The next big thing for silicon nanostructures – CO ₂ photocatalysis. <i>Faraday Discussions</i> , 2020, 222, 424-432. | 3.2 | 13 |
| 31 | 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 |
| 32 | Self-Assembly and Chemical Reactivity of Alkenes on Platinum Nanoparticles. <i>Langmuir</i> , 2015, 31, 522-528. | 3.5 | 11 |
| 33 | Surface Reconstruction and Reactivity of Platinum-Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28861-28867. | 3.1 | 5 |
| 34 | Solar Fuels: Tailoring Surface Frustrated Lewis Pairs of In ₂ O ₃ ·x(OH) _y for Gas-Phase Heterogeneous Photocatalytic Reduction of CO ₂ by Isomorphous Substitution of In ³⁺ with Bi ³⁺ (Adv. Sci. 6/2018). <i>Advanced Science</i> , 2018, 5, 1870034. | 11.2 | 3 |
| 35 | Flash Solid-Solid Synthesis of Silicon Oxide Nanorods. <i>Small</i> , 2020, 16, 2001435. | 10.0 | 2 |