

Joseph S Duchene

List of Publications by Year in descending order

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papers

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citations

430874

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#	ARTICLE	IF	CITATIONS
1	Prolonged Hot Electron Dynamics in Plasmonic Metal/Semiconductor Heterostructures with Implications for Solar Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7887-7891.	13.8	349
2	Hot Hole Collection and Photoelectrochemical CO ₂ Reduction with Plasmonic Au/p-GaN Photocathodes. <i>Nano Letters</i> , 2018, 18, 2545-2550.	9.1	307
3	Surface Plasmon-Driven Water Reduction: Gold Nanoparticle Size Matters. <i>Journal of the American Chemical Society</i> , 2014, 136, 9842-9845.	13.7	301
4	Polyvinylpyrrolidone-induced anisotropic growth of gold nanoprisms in plasmon-driven synthesis. <i>Nature Materials</i> , 2016, 15, 889-895.	27.5	239
5	Quantifying the role of surface plasmon excitation and hot carrier transport in plasmonic devices. <i>Nature Communications</i> , 2018, 9, 3394.	12.8	147
6	Ultrafast hot-hole injection modifies hot-electron dynamics in Au/p-GaN heterostructures. <i>Nature Materials</i> , 2020, 19, 1312-1318.	27.5	138
7	Optical Excitation of a Nanoparticle Cu/p-NiO Photocathode Improves Reaction Selectivity for CO ₂ Reduction in Aqueous Electrolytes. <i>Nano Letters</i> , 2020, 20, 2348-2358.	9.1	82
8	Bicarbonate or Carbonate Processes for Coupling Carbon Dioxide Capture and Electrochemical Conversion. <i>ACS Energy Letters</i> , 2020, 5, 940-945.	17.4	68
9	Nanoporous Gold as a Highly Selective and Active Carbon Dioxide Reduction Catalyst. <i>ACS Applied Energy Materials</i> , 2019, 2, 164-170.	5.1	55
10	Hot-Hole <i>versus</i> Hot-Electron Transport at Cu/GaN Heterojunction Interfaces. <i>ACS Nano</i> , 2020, 14, 5788-5797.	14.6	53
11	Unassisted Highly Selective Gas-Phase CO ₂ Reduction with a Plasmonic Au/p-GaN Photocatalyst Using H ₂ O as an Electron Donor. <i>ACS Energy Letters</i> , 2021, 6, 1849-1856.	17.4	49
12	A Facile Solvothermal Synthesis of Octahedral Fe ₃ O ₄ Nanoparticles. <i>Small</i> , 2015, 11, 2649-2653.	10.0	45
13	Dose-rate-dependent damage of cerium dioxide in the scanning transmission electron microscope. <i>Ultramicroscopy</i> , 2016, 170, 1-9.	1.9	35
14	Elucidating the Sole Contribution from Electromagnetic Near-Fields in Plasmon-Enhanced Cu ₂ O Photocathodes. <i>Advanced Energy Materials</i> , 2016, 6, 1501250.	19.5	31
15	<i>Operando</i> Local pH Measurement within Gas Diffusion Electrodes Performing Electrochemical Carbon Dioxide Reduction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20896-20904.	3.1	25
16	Bi-Containing n-FeWO ₄ Thin Films Provide the Largest Photovoltage and Highest Stability for a Sub-2 eV Band Gap Photoanode. <i>ACS Energy Letters</i> , 2018, 3, 2769-2774.	17.4	20
17	Probing the Catalytically Active Region in a Nanoporous Gold Gas Diffusion Electrode for Highly Selective Carbon Dioxide Reduction. <i>ACS Energy Letters</i> , 2022, 7, 871-879.	17.4	20
18	Facile synthesis of anisotropic Au@SiO ₂ core-shell nanostructures. <i>Dalton Transactions</i> , 2012, 41, 7879.	3.3	14

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19	Oxidation-state sensitive imaging of cerium dioxide by atomic-resolution low-angle annular dark field scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2016, 162, 52-60.	1.9	11
20	Band Edge Tailoring in Few-Layer Two-Dimensional Molybdenum Sulfide/Selenide Alloys. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22893-22902.	3.1	9
21	Low Angle Annular Dark Field Scanning Transmission Electron Microscopy is Sensitive to Oxidation State in CeO ₂ Nanoparticles. <i>Microscopy and Microanalysis</i> , 2015, 21, 239-240.	0.4	0