

Anderson G M Da Silva

List of Publications by Year in descending order

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52
papers

1,849
citations

236925

25
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

2746
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic catalysis with designer nanoparticles. <i>Chemical Communications</i> , 2022, 58, 2055-2074.	4.1	34
2	Nanoengineering of Catalysts for Enhanced Hydrogen Production. <i>Hydrogen</i> , 2022, 3, 218-254.	3.4	11
3	Towards the Effect of Pt ⁰ /Pt ⁺ and Ce ³⁺ Species at the Surface of CeO ₂ Crystals: Understanding the Nature of the Interactions under CO Oxidation Conditions. <i>ChemCatChem</i> , 2021, 13, 1340-1354.	3.7	23
4	Synergistic effect between CeO ₂ nanowires and gold NPs over the activity and selectivity in the oxidation of thioanisole. <i>Applied Catalysis A: General</i> , 2021, 613, 118010.	4.3	12
5	Cerium oxide-sulfur nanohybrids: Combining the robust adsorption of polysulfides with enhanced redox kinetics to improve the energy Storage capabilities of Li-S batteries. <i>Electrochimica Acta</i> , 2021, 382, 138284.	5.2	7
6	The importance of the shape of Cu ₂ O nanocrystals on plasmon-enhanced oxygen evolution reaction in alkaline media. <i>Electrochimica Acta</i> , 2021, 390, 138810.	5.2	11
7	Hydroquinone-Based Synthesis of Pd Nanostructures and the Interplay of Surface Capping, Reduction Kinetics, Attachment, Diffusion, and Fusion. <i>Chemistry of Materials</i> , 2021, 33, 8430-8439.	6.7	6
8	Chemical versus electrochemical: What is the best synthesis method to ternary GO/WO ₃ NW/PAni nanocomposites to improve performance as supercapacitor?. <i>Electrochimica Acta</i> , 2020, 356, 136786.	5.2	12
9	Plasmon-enhanced electrocatalytic oxygen reduction in alkaline media on gold nanohole electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10395-10401.	10.3	12
10	PdPt-TiO ₂ nanowires: correlating composition, electronic effects and O-vacancies with activities towards water splitting and oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119177.	20.2	36
11	MnO ₂ /Vulcan-Based Gas Diffusion Electrode for Mineralization of Diazo Dye in Simulated Effluent. <i>Electrocatalysis</i> , 2020, 11, 268-274.	3.0	4
12	Synthesis of highly dispersed gold nanoparticles on Al ₂ O ₃ , SiO ₂ , and TiO ₂ for the solvent-free oxidation of benzyl alcohol under low metal loadings. <i>Journal of Materials Science</i> , 2019, 54, 238-251.	3.7	34
13	In situ FTIR insights into the electrooxidation mechanism of glucose as a function of the surface facets of Cu ₂ O-based electrocatalytic sensors. <i>Journal of Catalysis</i> , 2019, 375, 95-103.	6.2	33
14	Ethanol steam reforming: understanding changes in the activity and stability of Rh/MxO _y catalysts as function of the support. <i>Journal of Materials Science</i> , 2019, 54, 11400-11416.	3.7	12
15	Nanocatalysis by noble metal nanoparticles: controlled synthesis for the optimization and understanding of activities. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5857-5874.	10.3	229
16	Exploiting the Synergetic Behavior of PtPd Bimetallic Catalysts in the Selective Hydrogenation of Glucose and Furfural. <i>Catalysts</i> , 2019, 9, 132.	3.5	17
17	Ni supported Ce _{0.9} Sm _{0.1} O ₂ - γ nanowires: An efficient catalyst for ethanol steam reforming for hydrogen production. <i>Fuel</i> , 2019, 237, 1244-1253.	6.4	42
18	Synthesis of Palladium Nanoscale Octahedra through a One-pot, Dual-reductant Route and Kinetic Analysis. <i>Chemistry - A European Journal</i> , 2018, 24, 6133-6139.	3.3	18

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19	Sub-15 nm CeO ₂ nanowires as an efficient non-noble metal catalyst in the room-temperature oxidation of aniline. <i>Catalysis Science and Technology</i> , 2018, 8, 1828-1839.	4.1	39
20	Carbon-supported MnO ₂ nanoflowers: Introducing oxygen vacancies for optimized volcano-type electrocatalytic activities towards H ₂ O ₂ generation. <i>Electrochimica Acta</i> , 2018, 268, 101-110.	5.2	60
21	Controlling Reduction Kinetics in the Galvanic Replacement Involving Metal Oxides Templates: Elucidating the Formation of Bimetallic Bowls, Rattles, and Dendrites from Cu ₂ O Spheres. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700175.	2.3	9
22	Combining active phase and support optimization in MnO ₂ -Au nanoflowers: Enabling high activities towards green oxidations. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 282-291.	9.4	32
23	Controlled synthesis of noble metal nanomaterials: motivation, principles, and opportunities in nanocatalysis. <i>Anais Da Academia Brasileira De Ciencias</i> , 2018, 90, 719-744.	0.8	42
24	Furfural Oxidation on Gold Supported on MnO ₂ : Influence of the Support Structure on the Catalytic Performances. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1246.	2.5	22
25	Why Could the Nature of Surface Facets Lead to Differences in the Activity and Stability of Cu ₂ O-Based Electrocatalytic Sensors?. <i>ACS Catalysis</i> , 2018, 8, 6265-6272.	11.2	49
26	Addressing the Effects of Size-Dependent Absorption, Scattering, and Near-Field Enhancements in Plasmonic Catalysis. <i>ChemCatChem</i> , 2018, 10, 3447-3452.	3.7	22
27	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. <i>Chemistry - A European Journal</i> , 2018, 24, 16944-16963.	3.3	143
28	Galvanic replacement reaction: recent developments for engineering metal nanostructures towards catalytic applications. <i>Chemical Communications</i> , 2017, 53, 7135-7148.	4.1	222
29	Controlled Synthesis of Nanomaterials at the Undergraduate Laboratory: Cu(OH) ₂ and CuO Nanowires. <i>Journal of Chemical Education</i> , 2017, 94, 743-750.	2.3	19
30	Cu ₂ O spheres as an efficient source of catalytic Cu(I) species for performing azide-alkyne click reactions. <i>Tetrahedron Letters</i> , 2017, 58, 590-595.	1.4	22
31	Systematic investigation of the effect of oxygen mobility on CO oxidation over AgPt nanoshells supported on CeO ₂ , TiO ₂ and Al ₂ O ₃ . <i>Journal of Materials Science</i> , 2017, 52, 13764-13778.	3.7	9
32	Catalytic Properties of AgPt Nanoshells as a Function of Size: Larger Outer Diameters Lead to Improved Performances. <i>Langmuir</i> , 2016, 32, 9371-9379.	3.5	13
33	Plasmonic Nanorattles as Next-Generation Catalysts for Surface Plasmon Resonance-Mediated Oxidations Promoted by Activated Oxygen. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7111-7115.	13.8	101
34	Bimetallic Au@Pd Core-Shell Shaped Asymmetric Nanostructures by a Combination of Precursor Reduction and Ostwald Ripening. <i>ChemNanoMat</i> , 2016, 2, 509-514.	2.8	3
35	Rational design of plasmonic catalysts: matching the surface plasmon resonance with lamp emission spectra for improved performance in AgAu nanorings. <i>RSC Advances</i> , 2016, 6, 62286-62290.	3.6	26
36	Efficient ceria-silica catalysts for BTX oxidation: Probing the catalytic performance and oxygen storage. <i>Chemical Engineering Journal</i> , 2016, 286, 369-376.	12.7	15

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37	MnO ₂ nanowires decorated with Au ultrasmall nanoparticles for the green oxidation of silanes and hydrogen production under ultralow loadings. <i>Applied Catalysis B: Environmental</i> , 2016, 184, 35-43.	20.2	55
38	Hollow AgPt/SiO ₂ nanomaterials with controlled surface morphologies: is the number of Pt surface atoms imperative to optimize catalytic performances?. <i>Catalysis Science and Technology</i> , 2016, 6, 2162-2170.	4.1	24
39	Pd-based nanoflowers catalysts: controlling size, composition, and structures for the 4-nitrophenol reduction and BTX oxidation reactions. <i>Journal of Materials Science</i> , 2016, 51, 603-614.	3.7	26
40	Surface Segregated AgAu Tadpole-Shaped Nanoparticles Synthesized Via a Single Step Combined Galvanic and Citrate Reduction Reaction. <i>Chemistry - A European Journal</i> , 2015, 21, 12314-12320.	3.3	17
41	Versatile and efficient catalysts for energy and environmental processes: Mesoporous silica containing Au, Pd and Au-Pd. <i>Journal of Power Sources</i> , 2015, 285, 460-468.	7.8	43
42	AgPt Hollow Nanodendrites: Synthesis and Uniform Dispersion over SiO ₂ Support for Catalytic Applications. <i>ChemNanoMat</i> , 2015, 1, 46-51.	2.8	28
43	Controlling Size, Morphology, and Surface Composition of AgAu Nanodendrites in 15 s for Improved Environmental Catalysis under Low Metal Loadings. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25624-25632.	8.0	42
44	Probing the catalytic activity of bimetallic versus trimetallic nanoshells. <i>Journal of Materials Science</i> , 2015, 50, 5620-5629.	3.7	33
45	The Fault in Their Shapes: Investigating the Surface-Plasmon-Resonance-Mediated Catalytic Activities of Silver Quasi-Spheres, Cubes, Triangular Prisms, and Wires. <i>Langmuir</i> , 2015, 31, 10272-10278.	3.5	51
46	AN UNDERGRADUATE LEVEL EXPERIMENT ON THE SYNTHESIS OF Au NANOPARTICLES AND THEIR SIZE-DEPENDENT OPTICAL AND CATALYTIC PROPERTIES. <i>Quimica Nova</i> , 2014, , .	0.3	7
47	Rapid Synthesis of Hollow Ag-Au Nanodendrites in 15 Seconds by Combining Galvanic Replacement and Precursor Reduction Reactions. <i>Chemistry - A European Journal</i> , 2014, 20, 15040-15046.	3.3	28
48	Ce _{1-x} Sm _x O _{1.9} nanoparticles obtained by microwave-assisted hydrothermal processing: an efficient application for catalytic oxidation of \pm -bisabolol. <i>Catalysis Science and Technology</i> , 2014, 4, 814.	4.1	31
49	Gold, palladium and gold-palladium supported on silica catalysts prepared by sol-gel method: synthesis, characterization and catalytic behavior in the ethanol steam reforming. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 273-281.	2.4	16
50	Air stable ligandless heterogeneous catalyst systems based on Pd and Au supported in SiO ₂ and MCM-41 for Suzuki-Miyaura cross-coupling in aqueous medium. <i>Applied Catalysis A: General</i> , 2013, 462-463, 39-45.	4.3	35
51	A new use for modified sugarcane bagasse containing adsorbed Co ²⁺ and Cr ³⁺ : Catalytic oxidation of terpenes. <i>Industrial Crops and Products</i> , 2013, 50, 288-296.	5.2	12
52	AgAu Nanotubes: Investigating the Effect of Surface Morphologies and Optical Properties over Applications in Catalysis and Photocatalysis. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0