Anderson G M Da Silva

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Nanocatalysis by noble metal nanoparticles: controlled synthesis for the optimization and understanding of activities. Journal of Materials Chemistry A, 2019, 7, 5857-5874.	10.3	229
2	Galvanic replacement reaction: recent developments for engineering metal nanostructures towards catalytic applications. Chemical Communications, 2017, 53, 7135-7148.	4.1	222
3	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. Chemistry - A European Journal, 2018, 24, 16944-16963.	3.3	143
4	Plasmonic Nanorattles as Nextâ€Generation Catalysts for Surface Plasmon Resonanceâ€Mediated Oxidations Promoted by Activated Oxygen. Angewandte Chemie - International Edition, 2016, 55, 7111-7115.	13.8	101
5	Carbon-supported MnO2 nanoflowers: Introducing oxygen vacancies for optimized volcano-type electrocatalytic activities towards H2O2 generation. Electrochimica Acta, 2018, 268, 101-110.	5.2	60
6	MnO2 nanowires decorated with Au ultrasmall nanoparticles for the green oxidation of silanes and hydrogen production under ultralow loadings. Applied Catalysis B: Environmental, 2016, 184, 35-43.	20.2	55
7	The Fault in Their Shapes: Investigating the Surface-Plasmon-Resonance-Mediated Catalytic Activities of Silver Quasi-Spheres, Cubes, Triangular Prisms, and Wires. Langmuir, 2015, 31, 10272-10278.	3.5	51
8	Why Could the Nature of Surface Facets Lead to Differences in the Activity and Stability of Cu₂O-Based Electrocatalytic Sensors?. ACS Catalysis, 2018, 8, 6265-6272.	11.2	49
9	Versatile and efficient catalysts for energy and environmental processes: Mesoporous silica containing Au, Pd and Au-Pd. Journal of Power Sources, 2015, 285, 460-468.	7.8	43
10	Controlling Size, Morphology, and Surface Composition of AgAu Nanodendrites in 15 s for Improved Environmental Catalysis under Low Metal Loadings. ACS Applied Materials & Interfaces, 2015, 7, 25624-25632.	8.0	42
11	Controlled synthesis of noble metal nanomaterials: motivation, principles, and opportunities in nanocatalysis. Anais Da Academia Brasileira De Ciencias, 2018, 90, 719-744.	0.8	42
12	Ni supported Ce0.9Sm0.1O2-Î´ nanowires: An efficient catalyst for ethanol steam reforming for hydrogen production. Fuel, 2019, 237, 1244-1253.	6.4	42
13	Sub-15 nm CeO₂ nanowires as an efficient non-noble metal catalyst in the room-temperature oxidation of aniline. Catalysis Science and Technology, 2018, 8, 1828-1839.	4.1	39
14	PdPt-TiO2 nanowires: correlating composition, electronic effects and O-vacancies with activities towards water splitting and oxygen reduction. Applied Catalysis B: Environmental, 2020, 277, 119177.	20.2	36
15	Air stable ligandless heterogeneous catalyst systems based on Pd and Au supported in SiO2 and MCM-41 for Suzukiâ€“Miyaura cross-coupling in aqueous medium. Applied Catalysis A: General, 2013, 462-463, 39-45.	4.3	35
16	Synthesis of highly dispersed gold nanoparticles on Al2O3, SiO2, and TiO2 for the solvent-free oxidation of benzyl alcohol under low metal loadings. Journal of Materials Science, 2019, 54, 238-251.	3.7	34
17	Plasmonic catalysis with designer nanoparticles. Chemical Communications, 2022, 58, 2055-2074.	4.1	34
18	Probing the catalytic activity of bimetallic versus trimetallic nanoshells. Journal of Materials Science, 2015, 50, 5620-5629.	3.7	33

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19	In situ FTIR insights into the electrooxidation mechanism of glucose as a function of the surface facets of Cu2O-based electrocatalytic sensors. Journal of Catalysis, 2019, 375, 95-103.	6.2	33
20	Combining active phase and support optimization in MnO2-Au nanoflowers: Enabling high activities towards green oxidations. Journal of Colloid and Interface Science, 2018, 530, 282-291.	9.4	32
21	Ce1â^'xSmxO1.9â^'Î´ nanoparticles obtained by microwave-assisted hydrothermal processing: an efficient application for catalytic oxidation of Î±-bisabolol. Catalysis Science and Technology, 2014, 4, 814.	4.1	31
22	Rapid Synthesis of Hollow Agâ€“Au Nanodendrites in 15 Seconds by Combining Galvanic Replacement and Precursor Reduction Reactions. Chemistry - A European Journal, 2014, 20, 15040-15046.	3.3	28
23	AgPt Hollow Nanodendrites: Synthesis and Uniform Dispersion over SiO₂ Support for Catalytic Applications. ChemNanoMat, 2015, 1, 46-51.	2.8	28
24	Rational design of plasmonic catalysts: matching the surface plasmon resonance with lamp emission spectra for improved performance in AgAu nanorings. RSC Advances, 2016, 6, 62286-62290.	3.6	26
25	Pd-based nanoflowers catalysts: controlling size, composition, and structures for the 4-nitrophenol reduction and BTX oxidation reactions. Journal of Materials Science, 2016, 51, 603-614.	3.7	26
26	Hollow AgPt/SiO₂ nanomaterials with controlled surface morphologies: is the number of Pt surface atoms imperative to optimize catalytic performances?. Catalysis Science and Technology, 2016, 6, 2162-2170.	4.1	24
27	Towards the Effect of Pt 0 /Pt Î´+ and Ce 3+ Species at the Surface of CeO 2 Crystals: Understanding the Nature of the Interactions under CO Oxidation Conditions. ChemCatChem, 2021, 13, 1340-1354.	3.7	23
28	Cu2O spheres as an efficient source of catalytic Cu(I) species for performing azide-alkyne click reactions. Tetrahedron Letters, 2017, 58, 590-595.	1.4	22
29	Furfural Oxidation on Gold Supported on MnO2: Influence of the Support Structure on the Catalytic Performances. Applied Sciences (Switzerland), 2018, 8, 1246.	2.5	22
30	Addressing the Effects of Sizeâ€dependent Absorption, Scattering, and Nearâ€field Enhancements in Plasmonic Catalysis. ChemCatChem, 2018, 10, 3447-3452.	3.7	22
31	Controlled Synthesis of Nanomaterials at the Undergraduate Laboratory: Cu(OH)₂ and CuO Nanowires. Journal of Chemical Education, 2017, 94, 743-750.	2.3	19
32	Synthesis of Palladium Nanoscale Octahedra through a Oneâ€Pot, Dualâ€Reductant Route and Kinetic Analysis. Chemistry - A European Journal, 2018, 24, 6133-6139.	3.3	18
33	Surface Segregated AgAu Tadpoleâ€Shaped Nanoparticles Synthesized Via a Single Step Combined Galvanic and Citrate Reduction Reaction. Chemistry - A European Journal, 2015, 21, 12314-12320.	3.3	17
34	Exploiting the Synergetic Behavior of PtPd Bimetallic Catalysts in the Selective Hydrogenation of Glucose and Furfural. Catalysts, 2019, 9, 132.	3.5	17
35	Gold, palladium and goldâ€“palladium supported on silica catalysts prepared by solâ€“gel method: synthesis, characterization and catalytic behavior in the ethanol steam reforming. Journal of Sol-Gel Science and Technology, 2013, 67, 273-281.	2.4	16
36	Efficient ceriaâ€“silica catalysts for BTX oxidation: Probing the catalytic performance and oxygen storage. Chemical Engineering Journal, 2016, 286, 369-376.	12.7	15

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37	Catalytic Properties of AgPt Nanoshells as a Function of Size: Larger Outer Diameters Lead to Improved Performances. Langmuir, 2016, 32, 9371-9379.	3.5	13
38	A new use for modified sugarcane bagasse containing adsorbed Co2+ and Cr3+: Catalytic oxidation of terpenes. Industrial Crops and Products, 2013, 50, 288-296.	5.2	12
39	Ethanol steam reforming: understanding changes in the activity and stability of Rh/MxOy catalysts as function of the support. Journal of Materials Science, 2019, 54, 11400-11416.	3.7	12
40	Chemical versus electrochemical: What is the best synthesis method to ternary GO/WO3NW/PAni nanocomposites to improve performance as supercapacitor?. Electrochimica Acta, 2020, 356, 136786.	5.2	12
41	Plasmon-enhanced electrocatalytic oxygen reduction in alkaline media on gold nanohole electrodes. Journal of Materials Chemistry A, 2020, 8, 10395-10401.	10.3	12
42	Synergistic effect between CeO2 nanowires and gold NPs over the activity and selectivity in the oxidation of thioanisole. Applied Catalysis A: General, 2021, 613, 118010.	4.3	12
43	The importance of the shape of Cu2O nanocrystals on plasmon-enhanced oxygen evolution reaction in alkaline media. Electrochimica Acta, 2021, 390, 138810.	5.2	11
44	Nanoengineering of Catalysts for Enhanced Hydrogen Production. Hydrogen, 2022, 3, 218-254.	3.4	11
45	Systematic investigation of the effect of oxygen mobility on CO oxidation over AgPt nanoshells supported on CeO2, TiO2 and Al2O3. Journal of Materials Science, 2017, 52, 13764-13778.	3.7	9
46	Controlling Reduction Kinetics in the Galvanic Replacement Involving Metal Oxides Templates: Elucidating the Formation of Bimetallic Bowls, Rattles, and Dendrites from Cu₂O Spheres. Particle and Particle Systems Characterization, 2018, 35, 1700175.	2.3	9
47	AN UNDERGRADUATE LEVEL EXPERIMENT ON THE SYNTHESIS OF Au NANOPARTICLES AND THEIR SIZE-DEPENDENT OPTICAL AND CATALYTIC PROPERTIES. Quimica Nova, 2014, , .	0.3	7
48	Cerium oxide-sulfur nanohybrids: Combining the robust adsorption of polysulfides with enhanced redox kinetics to improve the energy Storage capabilities of Li-S batteries. Electrochimica Acta, 2021, 382, 138284.	5.2	7
49	Hydroquinone-Based Synthesis of Pd Nanostructures and the Interplay of Surface Capping, Reduction Kinetics, Attachment, Diffusion, and Fusion. Chemistry of Materials, 2021, 33, 8430-8439.	6.7	6
50	MnO2/Vulcan-Based Gas Diffusion Electrode for Mineralization of Diazo Dye in Simulated Effluent. Electrocatalysis, 2020, 11, 268-274.	3.0	4
51	Bimetallic Au@Pdâ€Au Tadpoleâ€Shaped Asymmetric Nanostructures by a Combination of Precursor Reduction and Ostwald Ripening. ChemNanoMat, 2016, 2, 509-514.	2.8	3
52	AgAu Nanotubes: Investigating the Effect of Surface Morphologies and Optical Properties over Applications in Catalysis and Photocatalysis. Journal of the Brazilian Chemical Society, 0, , .	0.6	0