

James A Anderson

List of Publications by Year in descending order

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66
papers

3,571
citations

126858

33
h-index

133188

59
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70
all docs

70
docs citations

70
times ranked

5217
citing authors

#	ARTICLE	IF	CITATIONS
1	Cofactor NAD(P)H Regeneration Inspired by Heterogeneous Pathways. <i>CheM</i> , 2017, 2, 621-654.	5.8	287
2	Recent advances in selective acetylene hydrogenation using palladium containing catalysts. <i>Frontiers of Chemical Science and Engineering</i> , 2015, 9, 142-153.	2.3	199
3	Photocatalytic nitrate reduction over metal modified TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2009, 85, 192-200.	10.8	181
4	Cu/Al ₂ O ₃ catalysts modified with Pd for selective acetylene hydrogenation. <i>Journal of Catalysis</i> , 2014, 319, 127-135.	3.1	163
5	Molecular Interactions of a Cu-Based Metal-Organic Framework with a Confined Imidazolium-Based Ionic Liquid: A Combined Density Functional Theory and Experimental Vibrational Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3295-3304.	1.5	155
6	Cathode materials for rechargeable aluminum batteries: current status and progress. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5646-5660.	5.2	147
7	Low Salinity Waterflooding in Carbonate Reservoirs: Review of Interfacial Mechanisms. <i>Colloids and Interfaces</i> , 2018, 2, 20.	0.9	139
8	Biomass-derived nanostructured porous carbons for lithium-sulfur batteries. <i>Science China Materials</i> , 2016, 59, 389-407.	3.5	110
9	Molecular-Level Insight into Selective Catalytic Reduction of NO _x with NH ₃ to N ₂ over a Highly Efficient Bifunctional V ₂ O ₅ -MnO _x Catalyst at Low Temperature. <i>ACS Catalysis</i> , 2018, 8, 4937-4949.	5.5	103
10	Ecohydrological separation in wet, low energy northern environments? A preliminary assessment using different soil water extraction techniques. <i>Hydrological Processes</i> , 2015, 29, 5139-5152.	1.1	100
11	Simultaneous photocatalytic removal of nitrate and oxalic acid over Cu ₂ O/TiO ₂ and Cu ₂ O/TiO ₂ -AC composites. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 181-191.	10.8	97
12	FTIR study of aqueous nitrate reduction over Pd/TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2008, 77, 409-417.	10.8	95
13	Sulfur as a catalyst promoter or selectivity modifier in heterogeneous catalysis. <i>Catalysis Science and Technology</i> , 2014, 4, 272-294.	2.1	93
14	Carbon Capture by Metal Oxides: Unleashing the Potential of the (111) Facet. <i>Journal of the American Chemical Society</i> , 2018, 140, 4736-4742.	6.6	83
15	Optimisation of preparation method for Pd doped Cu/Al ₂ O ₃ catalysts for selective acetylene hydrogenation. <i>Catalysis Science and Technology</i> , 2015, 5, 2880-2890.	2.1	80
16	Non-Thermal Plasma Activation of Gold-Based Catalysts for Low-Temperature Water-Gas Shift Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5579-5583.	7.2	77
17	Multiple strategies to decrease ignition temperature for soot combustion on ultrathin MnO ₂ -nanosheet array. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 312-321.	10.8	77
18	Can TiO ₂ promote the reduction of nitrates in water?. <i>Journal of Catalysis</i> , 2005, 234, 282-291.	3.1	76

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19	Triphenylphosphine: a ligand for heterogeneous catalysis too? Selectivity enhancement in acetylene hydrogenation over modified Pd/TiO ₂ catalyst. <i>Catalysis Science and Technology</i> , 2015, 5, 2449-2459.	2.1	72
20	The potential of microbial processes for lignocellulosic biomass conversion to ethanol: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 366-383.	1.6	72
21	Electrocatalysis on Separator Modified by Molybdenum Trioxide Nanobelts for Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800243.	1.9	66
22	Influence of Water on the Chemistry and Structure of the Metal-Organic Framework Cu ₃ (btc) ₂ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 17323-17333.	1.5	64
23	Photocatalytic nitrate reduction over Au/TiO ₂ . <i>Catalysis Today</i> , 2011, 175, 316-321.	2.2	62
24	Aqueous phase photocatalytic nitrate destruction using titania based materials: routes to enhanced performance and prospects for visible light activation. <i>Catalysis Science and Technology</i> , 2013, 3, 879.	2.1	58
25	Mechanisms of Surface Charge Modification of Carbonates in Aqueous Electrolyte Solutions. <i>Colloids and Interfaces</i> , 2019, 3, 62.	0.9	57
26	Photoformed electron transfer from TiO ₂ to metal clusters. <i>Catalysis Communications</i> , 2008, 9, 1991-1995.	1.6	56
27	Selective hydrogenation of mixed alkyne/alkene streams at elevated pressure over a palladium sulfide catalyst. <i>Journal of Catalysis</i> , 2017, 355, 40-52.	3.1	56
28	Simultaneous photocatalytic degradation of nitrate and oxalic acid over gold promoted titania. <i>Catalysis Today</i> , 2012, 181, 171-176.	2.2	52
29	Water Denitration over a Pd-Sn/Al ₂ O ₃ Catalyst. <i>Catalysis Letters</i> , 2005, 105, 209-217.	1.4	49
30	Active Site Identification and Modification of Electronic States by Atomic-Scale Doping To Enhance Oxide Catalyst Innovation. <i>ACS Catalysis</i> , 2018, 8, 1399-1404.	5.5	42
31	Imaging of low temperature induced SMSI on Pd/TiO ₂ catalysts. <i>Catalysis Letters</i> , 2007, 114, 91-95.	1.4	41
32	The Variable Influence of Dispersant on Degradation of Oil Hydrocarbons in Subarctic Deep-Sea Sediments at Low Temperatures (0-5°C). <i>Scientific Reports</i> , 2017, 7, 2253.	1.6	40
33	Infrared study of the adsorption of acetone, acrolein, ethanoic acid and propene-NO mixtures on Rh/Al ₂ O ₃ catalysts. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 1117.	1.0	36
34	Support morphology-dependent alloying behaviour and interfacial effects of bimetallic Ni-Cu/CeO ₂ catalysts. <i>Chemical Science</i> , 2019, 10, 3556-3566.	3.7	34
35	Influence of the metal precursor on the catalytic behavior of Pt/Ceria catalysts in the preferential oxidation of CO in the presence of H ₂ (PROX). <i>Journal of Colloid and Interface Science</i> , 2015, 443, 45-55.	5.0	32
36	Improvement of Air/Fuel Ratio Operating Window and Hydrothermal Stability for Pd-Only Three-Way Catalysts through a Pd-Ce ₂ Zr ₂ O ₈ Superstructure Interaction. <i>Environmental Science & Technology</i> , 2015, 49, 7989-7995.	4.6	31

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37	Acetylene hydrogenation over structured Au-Pd catalysts. <i>Faraday Discussions</i> , 2016, 188, 499-523.	1.6	30
38	Mechanistic Insights into the Desorption of Methanol and Dimethyl Ether Over ZSM-5 Catalysts. <i>Catalysis Letters</i> , 2018, 148, 474-488.	1.4	25
39	Effect of spatial origin and hydrocarbon composition on bacterial consortia community structure and hydrocarbon biodegradation rates. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	25
40	Kinetic analysis of the steam reforming of ethanol over Ni/SiO ₂ for the elucidation of metal-dominated reaction pathways. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 883-897.	1.9	24
41	The Potential of Cu- SAPO-44 in the Selective Catalytic Reduction of NO _x with NH ₃ . <i>ChemCatChem</i> , 2016, 8, 3740-3745.	1.8	23
42	Efficient synthesis of the Cu- SAPO-44 zeolite with excellent activity for selective catalytic reduction of NO by NH ₃ . <i>Catalysis Today</i> , 2019, 332, 35-41.	2.2	23
43	Use of Water as a Solvent in Directing Hydrogenation Reactions of Aromatic Acids over Pd/carbon Nanofibre Catalysts. <i>Catalysis Letters</i> , 2007, 119, 16-20.	1.4	22
44	Characterisation of microbial communities of drill cuttings piles from offshore oil and gas installations. <i>Marine Pollution Bulletin</i> , 2019, 142, 169-177.	2.3	21
45	Chronic Environmental Perturbation Influences Microbial Community Assembly Patterns. <i>Environmental Science & Technology</i> , 2022, 56, 2300-2311.	4.6	21
46	Pressure and temperature effects on deep-sea hydrocarbon-degrading microbial communities in subarctic sediments. <i>MicrobiologyOpen</i> , 2019, 8, e00768.	1.2	20
47	Surface and bulk carbonate formation in calcium oxide during CO ₂ capture. <i>Applied Energy</i> , 2017, 202, 365-376.	5.1	17
48	Electric-Field-Assisted Facile Synthesis of Metal Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1271-1278.	3.2	13
49	Gold modified cobalt-based Fischer-Tropsch catalysts for conversion of synthesis gas to liquid fuels. <i>Frontiers of Chemical Science and Engineering</i> , 2013, 7, 262-269.	2.3	12
50	Removal of Confined Ionic Liquid from a Metal Organic Framework by Extraction with Molecular Solvents. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10577-10586.	1.5	12
51	Bacterial Community Response in Deep Faroe-Shetland Channel Sediments Following Hydrocarbon Entrainment With and Without Dispersant Addition. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	12
52	An oxygen pool from YBaCo ₄ O ₇ -based oxides for soot combustion. <i>Catalysis Science and Technology</i> , 2016, 6, 4511-4515.	2.1	11
53	Non-Thermal Plasma Activation of Gold-Based Catalysts for Low-Temperature Water-Gas Shift Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 5671-5675.	1.6	11
54	Use of carbon-based composites to enhance performance of TiO ₂ for the simultaneous removal of nitrates and organics from aqueous environments. <i>Environmental Science and Pollution Research</i> , 2018, 25, 32001-32014.	2.7	10

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55	Confirmation of Chirality in Homogeneous and Heterogeneous Salen-Based Catalysts. <i>ChemCatChem</i> , 2011, 3, 699-703.	1.8	9
56	Metal-promoted titania photocatalysis for destruction of nitrates and organics from aqueous environments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170060.	1.6	9
57	Rapid-Scan Operando Infrared Spectroscopy. <i>ChemCatChem</i> , 2016, 8, 1905-1908.	1.8	8
58	Cation Dependent Carbonate Speciation and the Effect of Water. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17570-17578.	1.5	6
59	Quantification of hydrocarbon species on surfaces by combined microbalance-FTIR. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 181, 65-72.	2.0	6
60	Study of the Interaction of an Iron Phthalocyanine Complex over Surface Modified Carbon Nanotubes. <i>Materials</i> , 2021, 14, 4067.	1.3	4
61	In-situ infrared spectroscopy as a non-invasive technique to study carbon sequestration at high pressure and high temperature. <i>International Journal of Greenhouse Gas Control</i> , 2016, 51, 126-135.	2.3	3
62	NO _x Storage on BaTi _{0.8} Cu _{0.2} O ₃ Perovskite Catalysts: Addressing a Feasible Mechanism. <i>Nanomaterials</i> , 2021, 11, 2133.	1.9	3
63	Advective pore-water transport of hydrocarbons in North East Scotland coastal sands. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28445-28459.	2.7	2
64	Dehydroaromatization of methane over noble metal loaded Mo/H-ZSM-5 zeolite catalysts. <i>Applied Petrochemical Research</i> , 2021, 11, 235-248.	1.3	2
65	Effects of Superdispersant-25 on the sorption dynamics of naphthalene and phenanthrene in marine sediments. <i>Journal of Soils and Sediments</i> , 2019, 19, 1576-1586.	1.5	1
66	Adsorption of Probe Molecules on Nanostructured Oxides. , 2006, , 311-334.		0