Antonio J MartÃ-n

List of Publications by Year
in descending order

51 papers	3,409 citations	218381 26 h-index	233125 45 g-index
56 all docs	56 docs citations	56 times ranked	4599 citing authors

#	Article	IF	Citations
1	Mechanistic routes toward C₃ products in copper-catalysed CO₂ electroreduction. Catalysis Science and Technology, 2022, 12, 409-417.	2.1	24
2	Controlled Formation of Dimers and Spatially Isolated Atoms in Bimetallic Auâ€Ru Catalysts via Carbonâ€Host Functionalization. Small, 2022, 18, e2200224.	5.2	9
3	Microfabrication Enables Quantification of Interfacial Activity in Thermal Catalysis. Small Methods, 2021, 5, 2001231.	4.6	2
4	Inside Back Cover: Microfabrication Enables Quantification of Interfacial Activity in Thermal Catalysis (Small Methods 5/2021). Small Methods, 2021, 5, 2170021.	4.6	0
5	Catalytic processing of plastic waste on the rise. CheM, 2021, 7, 1487-1533.	5.8	236
6	Planetary Boundaries Analysis of Low-Carbon Ammonia Production Routes. ACS Sustainable Chemistry and Engineering, 2021, 9, 9740-9749.	3.2	30
7	Direct Conversion of Polypropylene into Liquid Hydrocarbons on Carbonâ€Supported Platinum Catalysts. ChemSusChem, 2021, 14, 5179-5185.	3.6	35
8	Toward reliable and accessible ammonia quantification in the electrocatalytic reduction of nitrogen. Chem Catalysis, 2021, 1, 1505-1518.	2.9	20
9	Hybridization of Fossilâ€• and CO₂â€Based Routes for Ethylene Production using Renewable Energy. ChemSusChem, 2020, 13, 6370-6380.	3.6	29
10	Electrochemical Reduction of Carbon Dioxide to 1â€Butanol on Oxideâ€Derived Copper. Angewandte Chemie, 2020, 132, 21258-21265.	1.6	19
11	Electrochemical Reduction of Carbon Dioxide to 1â€Butanol on Oxideâ€Derived Copper. Angewandte Chemie - International Edition, 2020, 59, 21072-21079.	7.2	57
12	Laser-Microstructured Copper Reveals Selectivity Patterns in the Electrocatalytic Reduction of CO2. CheM, 2020, 6, 1707-1722.	5.8	39
13	Structure Sensitivity and Evolution of Nickel-Bearing Nitrogen-Doped Carbons in the Electrochemical Reduction of CO₂. ACS Catalysis, 2020, 10, 3444-3454.	5.5	20
14	Nitrideâ€Derived Copper Modified with Indium as a Selective and Highly Stable Catalyst for the Electroreduction of Carbon Dioxide. ChemSusChem, 2019, 12, 3501-3508.	3.6	20
15	Heading to Distributed Electrocatalytic Conversion of Small Abundant Molecules into Fuels, Chemicals, and Fertilizers. Joule, 2019, 3, 2602-2621.	11.7	86
16	Electrocatalytic Reduction of Nitrogen: From Haber-Bosch to Ammonia Artificial Leaf. CheM, 2019, 5, 263-283.	5.8	339
17	Microfabricated electrodes unravel the role of interfaces in multicomponent copper-based CO2 reduction catalysts. Nature Communications, 2018, 9, 1477.	5.8	60
18	Sulfur-Modified Copper Catalysts for the Electrochemical Reduction of Carbon Dioxide to Formate. ACS Catalysis, 2018, 8, 837-844.	5.5	209

#	ARTICLE	IF	CITATIONS
19	Elucidating the Distribution and Speciation of Boron and Cesium in BCsX Zeolite Catalysts for Styrene Production. ChemPhysChem, 2018, 19, 437-445.	1.0	12
20	Origin of the Selective Electroreduction of Carbon Dioxide to Formate by Chalcogen Modified Copper. Journal of Physical Chemistry Letters, 2018, 9, 7153-7159.	2.1	57
21	Solvothermallyâ€Prepared Cu₂O Electrocatalysts for CO₂ Reduction with Tunable Selectivity by the Introduction of pâ€Block Elements. ChemSusChem, 2017, 10, 1255-1265.	3.6	47
22	Visualising compositional heterogeneity during the scale up of multicomponent zeolite bodies. Materials Horizons, 2017, 4, 857-861.	6.4	18
23	Building Blocks for High Performance in Electrocatalytic CO₂ Reduction: Materials, Optimization Strategies, and Device Engineering. Journal of Physical Chemistry Letters, 2017, 8, 3933-3944.	2.1	147
24	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation. Angewandte Chemie, 2016, 128, 6369-6373.	1.6	78
25	Titelbild: Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation (Angew. Chem. 21/2016). Angewandte Chemie, 2016, 128, 6215-6215.	1.6	0
26	Enhanced Reduction of CO₂ to CO over Cuâ€“In Electrocatalysts: Catalyst Evolution Is the Key. ACS Catalysis, 2016, 6, 6265-6274.	5.5	170
27	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation. Angewandte Chemie - International Edition, 2016, 55, 6261-6265.	7.2	769
28	Synergistic effects in silverâ€“indium electrocatalysts for carbon dioxide reduction. Journal of Catalysis, 2016, 343, 266-277.	3.1	73
29	Mechanisms for the Growth of Thin Films of WO3 and Bronzes from Suspensions of WO3 Nanoparticles. ECS Transactions, 2015, 64, 43-56.	0.3	7
30	Towards sustainable fuels and chemicals through the electrochemical reduction of CO₂: lessons from water electrolysis. Green Chemistry, 2015, 17, 5114-5130.	4.6	288
31	Influence of Operation Parameters on the Response of a PEMFC with Electrodeposited Ptâ€WO₃ Cathode. Fuel Cells, 2014, 14, 742-749.	1.5	3
32	A portable system powered with hydrogen and one single air-breathing PEM fuel cell. Applied Energy, 2013, 109, 60-66.	5.1	53
33	Recent Advances in Fuel Cells for Transport and Stationary Applications. , 2013, , 361-380.		3
34	Dry reforming of methane to syngas over La-promoted hydrotalcite clay-derived catalysts. International Journal of Hydrogen Energy, 2012, 37, 12342-12350.	3.8	94
35	Biogas reforming over La-NiMgAl catalysts derived from hydrotalcite-like structure: Influence of calcination temperature. Catalysis Communications, 2011, 12, 961-967.	1.6	48
36	Single cell study of electrodeposited cathodic electrodes based on Ptâ€“WO3 for polymer electrolyte fuel cells. Journal of Power Sources, 2011, 196, 4187-4192.	4.0	22

#	Article	IF	Citations
37	Catalyst layers for proton exchange membrane fuel cells prepared by electrospray deposition on Nafion membrane. Journal of Power Sources, 2011, 196, 4200-4208.	4.0	32
38	Theoretical Analysis of the Limiting Diffusion Current at a 'Particulate Rotating Disk Electrode'. ECS Transactions, 2010, 25, 125-133.	0.3	4
39	Testing of Catalyst Coated Membranes for PEMFC, Prepared by Electrospray Deposition. ECS Transactions, 2010, 33, 267-273.	0.3	0
40	Microstructure of Electrospray Deposited Catalyst Layers for PEMFC Electrodes. ECS Transactions, 2010, 26, 197-205.	0.3	1
41	Properties of Catalyst Layers for PEMFC Electrodes Prepared by Electrospray Deposition. Journal of the Electrochemical Society, 2010, 157, B993.	1.3	39
42	EQCM Study of the Electrodeposition of Pt-WO3 and Its Catalytic Activity towards the ORR. ECS Transactions, 2010, 33, 309-320.	0.3	5
43	Properties of Catalyst Layers Prepared by Electrospray Deposition. ECS Transactions, 2009, 25, 1221-1227.	0.3	0
44	Rotating disk electrode analysis of oxygen reduction at platinum particles under limiting diffusion conditions. Electrochimica Acta, 2009, 54, 2209-2217.	2.6	14
45	Comparative analysis of the electroactive area of Pt/C PEMFC electrodes in liquid and solid polymer contact by underpotential hydrogen adsorption/desorption. International Journal of Hydrogen Energy, 2009, 34, 4838-4846.	3.8	52
46	Characterization and single cell testing of Pt/C electrodes prepared by electrodeposition. Journal of Power Sources, 2009, 192, 14-20.	4.0	38
47	PEMFC electrode preparation by electrospray: Optimization of catalyst load and ionomer content. Catalysis Today, 2009, 143, 237-241.	2.2	67
48	Pt-Co Electrodeposited Electrodes: Surface Distribution and Depth Profile. ECS Transactions, 2009, 25, 2039-2047.	0.3	0
49	Electrodeposition of Platinum on Carbon Black for Fuel Cell Application. ECS Transactions, 2008, 13, 13-18.	0.3	5
50	Electrochemical quartz crystal microbalance study of the electrodeposition of Co, Pt and Ptâ€“Co alloy. Journal of Power Sources, 2007, 169, 65-70.	4.0	17
51	Mechanistic Routes toward C3-C4 products in Copper-Catalysed CO2 Electroreduction. , 0, , .		1