Fabio Dionigi

List of Publications by Year
in descending order

35 papers	5,974 citations	257450 24 h-index	395702 33 g-index
37 all docs	37 docs citations	37 times ranked	6329 citing authors

#	Article	IF	Citations
1	Water electrolysis: from textbook knowledge to the latest scientific strategies and industrial developments. Chemical Society Reviews, 2022, 51, 4583-4762.	38.1	453
2	Catalytically-Active Phases and Reaction Mechanism of Ni-Based and Co-Based Layered Double Hydroxides for the Oxygen Evolution Reaction. ECS Meeting Abstracts, 2022, MA2022-01, 1368-1368.	0.0	0
3	Molecular Understanding of the Impact of Saline Contaminants and Alkaline pH on NiFe Layered Double Hydroxide Oxygen Evolution Catalysts. ACS Catalysis, 2021, 11, 6800-6809.	11.2	50
4	Evidence of Marsâ€Vanâ€Krevelen Mechanism in the Electrochemical Oxygen Evolution on Niâ€Based Catalysts. Angewandte Chemie, 2021, 133, 15108-15115.	2.0	9
5	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie, 2021, 133, 14567-14578.	2.0	30
6	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie - International Edition, 2021, 60, 14446-14457.	13.8	170
7	Evidence of Marsâ€Vanâ€Krevelen Mechanism in the Electrochemical Oxygen Evolution on Niâ€Based Catalysts. Angewandte Chemie - International Edition, 2021, 60, 14981-14988.	13.8	67
8	Seed-Mediated Synthesis and Catalytic ORR Reactivity of Facet-Stable, Monodisperse Platinum Nano-Octahedra. ACS Applied Energy Materials, 2021, 4, 9542-9552.	5.1	18
9	Advancements in cathode catalyst and cathode layer design for proton exchange membrane fuel cells. Nature Communications, 2021, 12, 5984.	12.8	120
10	(Invited) Pt Alloy Octahedral Nanoparticle Catalysts from Screening Studies to Fuel Cell Measurements. ECS Meeting Abstracts, 2021, MA2021-02, 1192-1192.	0.0	0
11	P-block single-metal-site tin/nitrogen-doped carbon fuel cell cathode catalyst for oxygen reduction reaction. Nature Materials, 2020, 19, 1215-1223.	27.5	278
12	Anisotropy of Pt nanoparticles on carbon- and oxide-support and their structural response to electrochemical oxidation probed by <i>in situ</i> techniques. Physical Chemistry Chemical Physics, 2020, 22, 22260-22270.	2.8	9
13	In-situ structure and catalytic mechanism of NiFe and CoFe layered double hydroxides during oxygen evolution. Nature Communications, 2020, 11, 2522.	12.8	594
14	Electrolysis of low-grade and saline surface water. Nature Energy, 2020, 5, 367-377.	39.5	579
15	Current challenges related to the deployment of shape-controlled Pt alloy oxygen reduction reaction nanocatalysts into low Pt-loaded cathode layers of proton exchange membrane fuel cells. Current Opinion in Electrochemistry, 2019, 18, 61-71.	4.8	111
16	Dealloyed PtNi-Coreâ€“Shell Nanocatalysts Enable Significant Lowering of Pt Electrode Content in Direct Methanol Fuel Cells. ACS Catalysis, 2019, 9, 3764-3772.	11.2	66
17	Direct Electrolytic Splitting of Seawater: Opportunities and Challenges. ACS Energy Letters, 2019, 4, 933-942.	17.4	578
18	Alloy Nanocatalysts for the Electrochemical Oxygen Reduction (ORR) and the Direct Electrochemical Carbon Dioxide Reduction Reaction (CO₂RR). Advanced Materials, 2019, 31, e1805617.	21.0	255

#	Article	IF	Citations
19	Impact of Carbon Support Functionalization on the Electrochemical Stability of Pt Fuel Cell Catalysts. Chemistry of Materials, 2018, 30, 7287-7295.	6.7	73
20	Direct Electrolytic Splitting of Seawater: Activity, Selectivity, Degradation, and Recovery Studied from the Molecular Catalyst Structure to the Electrolyzer Cell Level. Advanced Energy Materials, 2018, 8, 1800338.	19.5	185
21	A comparison of rotating disc electrode, floating electrode technique and membrane electrode assembly measurements for catalyst testing. Journal of Power Sources, 2018, 392, 274-284.	7.8	94
22	Design Criteria, Operating Conditions, and Nickelâ€"Iron Hydroxide Catalyst Materials for Selective Seawater Electrolysis. ChemSusChem, 2016, 9, 962-972.	6.8	467
23	NiFeâ€Based (Oxy)hydroxide Catalysts for Oxygen Evolution Reaction in Nonâ€Acidic Electrolytes. Advanced Energy Materials, 2016, 6, 1600621.	19.5	765
24	Tantalum Nitride Nanorod Arrays: Introducing Niâ€"Fe Layered Double Hydroxides as a Cocatalyst Strongly Stabilizing Photoanodes in Water Splitting. Chemistry of Materials, 2015, 27, 2360-2366.	6.7	158
25	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Ptâ€"Niâ€"Co Alloy Nanocatalysts. Nano Letters, 2015, 15, 7473-7480.	9.1	156
26	Element-specific anisotropic growth of shaped platinum alloy nanocrystals. Science, 2014, 346, 1502-1506.	12.6	277
27	A transparent Pyrex Î¼-reactor for combined in situ optical characterization and photocatalytic reactivity measurements. Review of Scientific Instruments, 2013, 84, 103910.	1.3	7
28	Electrochemical Hydrogen Evolution: Sabatierâ€™s Principle and the Volcano Plot. Journal of Chemical Education, 2012, 89, 1595-1599.	2.3	243
29	Suppression of the water splitting back reaction on GaN:ZnO photocatalysts loaded with core/shell cocatalysts, investigated using a Î¼-reactor. Journal of Catalysis, 2012, 292, 26-31.	6.2	45
30	Trion confinement and exciton shrinkage in the 2DEG at high magnetic fields. Solid State Communications, 2012, 152, 1123-1126.	1.9	2
31	Gas phase photocatalytic water splitting with Rh2â^'yCryO3/GaN:ZnO in Î¼-reactors. Energy and Environmental Science, 2011, 4, 2937.	30.8	71
32	Optical probing of quantum Hall effect of composite fermions and of the liquid-insulator transition. Journal of Physics: Conference Series, 2011, 334, 012022.	0.4	0
33	Optical probing of the metal-to-insulator transition in a two-dimensional high-mobility electron gas. New Journal of Physics, 2011, 13, 063003.	2.9	1
34	Optical detection of quantum Hall effect of composite fermions and evidence of theÎ½=3/8state. Physical Review B, 2010, 81, .	3.2	14
35	Plateauâ€"insulator transition in graphene. New Journal of Physics, 2010, 12, 053004.	2.9	22