Joey D Ocon

List of Publications by Year in descending order

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78 papers	2,704 citations	201385 27 h-index	189595 50 g-index
80 all docs	80 docs citations	80 times ranked	4229 citing authors

#	Article	IF	Citations
1	Electrochemical oxidation remediation of real wastewater effluents â€" A review. Chemical Engineering Research and Design, 2018, 113, 48-67.	2.7	515
2	Insights into an autonomously formed oxygen-evacuated Cu₂O electrode for the selective production of C₂H₄ from CO₂. Physical Chemistry Chemical Physics, 2015, 17, 824-830.	1.3	197
3	Oxygen electrocatalysis in chemical energy conversion and storage technologies. Current Applied Physics, 2013, 13, 309-321.	1.1	167
4	Alkaline CO₂ Electrolysis toward Selective and Continuous HCOO^{â€"} Production over SnO₂ Nanocatalysts. Journal of Physical Chemistry C, 2015, 119, 4884-4890.	1.5	127
5	Ammonium Vanadium Bronze (NH₄V₄O₁₀) as a High-Capacity Cathode Material for Nonaqueous Magnesium-Ion Batteries. Chemistry of Materials, 2018, 30, 3690-3696.	3.2	119
6	Ultrafast and stable hydrogen generation from sodium borohydride in methanol and water over Feâ€"B nanoparticles. Journal of Power Sources, 2013, 243, 444-450.	4.0	110
7	Prospects of electrochemically synthesized hematite photoanodes for photoelectrochemical water splitting: A review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 33, 54-82.	5.6	101
8	Multi-dimensional zinc oxide (ZnO) nanoarchitectures as efficient photocatalysts: What is the fundamental factor that determines photoactivity in ZnO?. Journal of Hazardous Materials, 2020, 381, 120958.	6.5	66
9	Transition pathway towards 100% renewable energy across the sectors of power, heat, transport, and desalination for the Philippines. Renewable and Sustainable Energy Reviews, 2021, 144, 110934.	8.2	62
10	Electrolyte-Dependent Oxygen Evolution Reactions in Alkaline Media: Electrical Double Layer and Interfacial Interactions. ACS Applied Materials & Interfaces, 2019, 11, 33748-33758.	4.0	59
11	Insights on platinum-carbon catalyst degradation mechanism for oxygen reduction reaction in acidic and alkaline media. Journal of Power Sources, 2021, 487, 229356.	4.0	56
12	Direct power generation from waste coffee grounds in a biomass fuel cell. Journal of Power Sources, 2015, 296, 433-439.	4.0	52
13	In situ Ni-doping during cathodic electrodeposition of hematite for excellent photoelectrochemical performance of nanostructured nickel oxide-hematite p-n junction photoanode. Applied Surface Science, 2017, 392, 144-152.	3.1	52
14	Functionalized Grapheneâ€Based Cathode for Highly Reversible Lithiumâ€"Sulfur Batteries. ChemSusChem, 2014, 7, 1265-1273.	3.6	51
15	Energy Transition from Diesel-based to Solar Photovoltaics-Battery-Diesel Hybrid System-based Island Grids in the Philippines â€" Techno-Economic Potential and Policy Implication on Missionary Electrification. Journal of Sustainable Development of Energy, Water and Environment Systems, 2019, 7, 139-154.	0.9	45
16	Diagnosis of the measurement inconsistencies of carbon-based electrocatalysts for the oxygen reduction reaction in alkaline media. RSC Advances, 2015, 5, 1571-1580.	1.7	42
17	Excavated Feâ€Nâ€C Sites for Enhanced Electrocatalytic Activity in the Oxygen Reduction Reaction. ChemSusChem, 2014, 7, 1289-1294.	3.6	40
18	Gently reduced graphene oxide incorporated into cobalt oxalate rods as bifunctional oxygen electrocatalyst. Electrochimica Acta, 2014, 140, 404-411.	2.6	38

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19	Experimental Study of Three Channel Designs with Model Comparison in a PEM Fuel Cell. Fuel Cells, 2020, 20, 547-557.	1.5	38
20	On the transferability of smart energy systems on off-grid islands using cluster analysis â€“ A case study for the Philippine archipelago. Applied Energy, 2019, 251, 113290.	5.1	36
21	Enhancing Role of Nickel in the Nickelâ€“Palladium Bilayer for Electrocatalytic Oxidation of Ethanol in Alkaline Media. Journal of Physical Chemistry C, 2014, 118, 22473-22478.	1.5	35
22	Exploration of a novel Type II 1D-ZnO nanorods/BiVO4 heterojunction photocatalyst for water depollution. Journal of Industrial and Engineering Chemistry, 2020, 83, 303-314.	2.9	34
23	Unravelling the roles of alkali-metal cations for the enhanced oxygen evolution reaction in alkaline media. Applied Catalysis B: Environmental, 2021, 288, 119981.	10.8	34
24	Enhanced reversible capacity of Li-S battery cathode based on graphene oxide. Journal of Energy Chemistry, 2013, 22, 336-340.	7.1	31
25	Electrocatalytic oxygen evolution reaction at a FeNi composite on a carbon nanofiber matrix in alkaline media. Chinese Journal of Catalysis, 2014, 35, 891-895.	6.9	29
26	A novel ternary nanostructured carbonaceous-metal-semiconductor eRGO/NiO/Î±-Fe 2 O 3 heterojunction photoanode with enhanced charge transfer properties for photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2017, 169, 236-244.	3.0	29
27	Comparative assessment of solar photovoltaic-wind hybrid energy systems: A case for Philippine off-grid islands. Renewable Energy, 2021, 179, 1589-1607.	4.3	29
28	A Comparative Techno-Economic Analysis of Different Desalination Technologies in Off-Grid Islands. Energies, 2020, 13, 2261.	1.6	27
29	Controlled Electrochemical Etching of Nanoporous Si Anodes and Its Discharge Behavior in Alkaline Siâ€“Air Batteries. ACS Applied Materials & Interfaces, 2015, 7, 3126-3132.	4.0	26
30	Enhanced electrical and mass transfer characteristics of acid-treated carbon nanotubes for capacitive deionization. Current Applied Physics, 2015, 15, 1539-1544.	1.1	25
31	Electrochemically-synthesized tungstate nanocomposites Î³-WO3/CuWO4 and Î³-WO3/NiWO4 thin films with improved band gap and photoactivity for solar-driven photoelectrochemical water oxidation. Journal of Alloys and Compounds, 2018, 762, 90-97.	2.8	24
32	Projecting the Price of Lithium-Ion NMC Battery Packs Using a Multifactor Learning Curve Model. Energies, 2020, 13, 5276.	1.6	24
33	Quasi-perpetual discharge behaviour in p-type Geâ€“air batteries. Physical Chemistry Chemical Physics, 2014, 16, 22487-22494.	1.3	22
34	An etched nanoporous Ge anode in a novel metalâ€“air energy conversion cell. Physical Chemistry Chemical Physics, 2013, 15, 6333.	1.3	21
35	Effects of electrodeposition synthesis parameters on the photoactivity of nanostructured tungsten trioxide thin films: Optimisation study using response surface methodology. Journal of the Taiwan Institute of Chemical Engineers, 2016, 61, 196-204.	2.7	21
36	Improvement of Energy Capacity with Vitaminâ€…C Treated Dualâ€Layered Grapheneâ€“Sulfur Cathodes in Lithiumâ€“Sulfur Batteries. ChemSusChem, 2015, 8, 2883-2891.	3.6	20

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37	Electrode Architecture in Galvanic and Electrolytic Energy Cells. Angewandte Chemie - International Edition, 2016, 55, 4870-4880.	7.2	19
38	Dip-coating synthesis of high-surface area nanostructured FeB for direct usage as anode in metal/metalloid-air battery. Current Applied Physics, 2016, 16, 1075-1080.	1.1	17
39	One-pot hydrothermal synthesis of heteroatom co-doped with fluorine on reduced graphene oxide for enhanced ORR activity and stability in alkaline media. Materials Chemistry and Physics, 2019, 236, 121804.	2.0	16
40	High Energy Density Germanium Anodes for Next Generation Lithium Ion Batteries. Applied Chemistry for Engineering, 2014, 25, 1-13.	0.2	14
41	Highâ€Powerâ€Density Semiconductorâ€“Air Batteries Based on Pâ€Type Germanium with Different Crystal Orientations. ChemElectroChem, 2016, 3, 242-246.	1.7	13
42	What makes energy systems in climate-vulnerable islands resilient? Insights from the Philippines and Thailand. Energy Research and Social Science, 2020, 69, 101703.	3.0	13
43	Facile synthesis and characterisation of functional MoO3 photoanode with self-photorechargeability. Journal of Alloys and Compounds, 2020, 838, 155624.	2.8	13
44	Techno-economic and financial analyses of hybrid renewable energy system microgrids in 634 Philippine off-grid islands: Policy implications on public subsidies and private investments. Energy, 2022, 257, 124599.	4.5	13
45	Decentralized versus Clustered Microgrids: An Energy Systems Study for Reliable Off-Grid Electrification of Small Islands. Energies, 2020, 13, 4454.	1.6	12
46	Fabrication of cellulose <scp>acetateâ€based</scp> radiation grafted anion exchange membranes for fuel cell application. Journal of Applied Polymer Science, 2021, 138, 49947.	1.3	12
47	Effects of Adsorbates (CO, COH, and HCO) on the Arrangement of Pd Atoms in PdCu(111). Journal of Physical Chemistry C, 2017, 121, 17818-17826.	1.5	11
48	Hydrothermally Carbonized Waste Biomass as Electrocatalyst Support for Î±-MnO2 in Oxygen Reduction Reaction. Catalysts, 2020, 10, 177.	1.6	11
49	A stochastic techno-economic comparison of generation-integrated long duration flywheel, lithium-ion battery, and lead-acid battery energy storage technologies for isolated microgrid applications. Journal of Energy Storage, 2022, 52, 104681.	3.9	11
50	Quantifying the Techno-Economic Potential of Grid-Tied Rooftop Solar Photovoltaics in the Philippine Industrial Sector. Energies, 2020, 13, 5070.	1.6	10
51	Alkaline earth atom doping-induced changes in the electronic and magnetic properties of graphene: a density functional theory study. RSC Advances, 2021, 11, 6268-6283.	1.7	10
52	Assessing demand compliance and reliability in the Philippine off-grid islands with Model Predictive Control microgrid coordination. Renewable Energy, 2021, 179, 1271-1290.	4.3	9
53	S-Doped Graphitic Carbon Nitride as Potential Catalyst towards Oxygen Reduction Reaction. ECS Transactions, 2017, 77, 621-628.	0.3	8
54	Interaction of CO, O, and CO₂ with Cu cluster supported on Cu(1â€‰1â€‰1): a density functional theory study. Journal of Physics Condensed Matter, 2019, 31, 415201.	0.7	8

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55	Arsenic Removal by Advanced Electrocoagulation Processes: The Role of Oxidants Generated and Kinetic Modeling. Catalysts, 2020, 10, 928.	1.6	8
56	Ethanol Electrooxidation on Phase- and Morphology-Controlled Ni(OH)2 Microspheres. Catalysts, 2020, 10, 740.	1.6	7
57	Pseudocapacitive Behavior of Ni(OH)₂/NiO Hierarchical Structures Grown on Carbon Fiber Paper. Solid State Phenomena, 2017, 266, 177-181.	0.3	6
58	Synthesis and characterisation of a novel bilayer tungsten trioxide nanojunction with different crystal growth orientation for improved photoactivity under visible light irradiation. Journal of Alloys and Compounds, 2018, 749, 268-275.	2.8	6
59	Impacts of morphological-controlled ZnO nanoarchitectures on aerobic microbial communities during real wastewater treatment in an aerobic-photocatalytic system. Environmental Pollution, 2020, 259, 113867.	3.7	6
60	Improvement of Energy Capacity with Vitaminâ€…C Treated Dual-Layered Graphene-Sulfur Cathodes in Lithium-Sulfur Batteries. ChemSusChem, 2015, 8, 2754-2754.	3.6	5
61	Spatiotemporal Variation of Groundwater Arsenic in Pampanga, Philippines. Water (Switzerland), 2020, 12, 2366.	1.2	5
62	Understanding the synergistic role of Pt-mediated MoO3 photoanode with self-photorechargeability during illuminated and non-illuminated conditions: A combined experimental and density functional theory study. Journal of the Taiwan Institute of Chemical Engineers, 2021, 120, 381-390.	2.7	5
63	Development of Magnesium Anodeâ€Based Transient Primary Batteries. ChemistryOpen, 2021, 10, 471-476.	0.9	5
64	Synthesis of Silver-Doped Titanium Dioxide Nanotubes by Single-Step Anodization for Enhanced Photodegradation of Acid Orange 52. Materials Science Forum, 0, 950, 149-153.	0.3	4
65	Ultrahigh purification in concentrated NaOH by electrowinning for solar cell application. Separation and Purification Technology, 2015, 145, 24-28.	3.9	3
66	A First-Principles Study on the Electronic and Structural Properties of Halogen-Substituted Graphene. ECS Transactions, 2017, 77, 607-620.	0.3	3
67	Cluster size effects on the adsorption of CO, O, and CO₂ and the dissociation of CO₂ on two-dimensional Cu_x (x = 1, 3, and 7) clusters supported on Cu(111) surface: a density functional theory study. Journal of Physics Condensed Matter, 2020, 32, 405201.	0.7	3
68	Determining the structure-antibacterial properties relationship and bacterial inactivation kinetics in different morphological-controlled ZnO nanoarchitectures for wastewater applications. Journal of Environmental Chemical Engineering, 2021, 9, 106646.	3.3	3
69	An optimized mild reduction route towards excellent cobaltâ€“graphene catalysts for water oxidation. RSC Advances, 2015, 5, 64858-64864.	1.7	2
70	Quantum Chemical Predictions on Alkaline-Earth Doped Graphene: A Density Functional Theory (DFT) Based Investigation for a Novel Class of Carbon-Based Two-Dimensional Nanomaterials toward Electrochemical, Catalytic, and Electronic Applications. ECS Transactions, 2017, 77, 629-636.	0.3	2
71	Carbon Electrodes in Capacitive Deionization Process. Applied Chemistry for Engineering, 2014, 25, 346-351.	0.2	2
72	CoMn 2 O 4 Anchored on N-Doped High-Dimensional Hierarchical Porous Carbon Derived from Biomass for Bifunctional Oxygen Electrocatalysis. ECS Transactions, 2017, 77, 525-531.	0.3	1

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73	Monatomic oxygen adsorption on halogen-substituted monovacant graphene. International Journal of Hydrogen Energy, 2018, 43, 17673-17681.	3.8	1
74	Unravelling the roles of H+, Na+ and K+ cations over the self-photorechargeability of a Pt-mediated MoO3 photoanode-driven photoelectrochemical system: Experimental and DFT study. Journal of Environmental Chemical Engineering, 2022, 10, 107252.	3.3	1
75	Spatio-Temporal Solarâ€“Wind Complementarity Assessment in the Province of Kalinga-Apayao, Philippines Using Canonical Correlation Analysis. Sustainability, 2022, 14, 3253.	1.6	1
76	Elektrodenarchitektur in galvanischen und elektrolytischen Energiezellen. Angewandte Chemie, 2016, 128, 4952-4962.	1.6	0
77	Carbon Dioxide (CO 2) Electrocatalytic Recycling on Electrodeposited Nanostructured Copper-Gold Electrodes. ECS Transactions, 2017, 77, 1433-1438.	0.3	0
78	Exploring Novel Dopants in Graphene: Unique Properties, Group Trends, and New Insights from DFT for Electrocatalytic Applications. ECS Transactions, 2017, 77, 1383-1391.	0.3	0