

Joey D Ocon

List of Publications by Year in descending order

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78
papers

2,704
citations

201674

27
h-index

189892

50
g-index

80
all docs

80
docs citations

80
times ranked

4229
citing authors

#	ARTICLE	IF	CITATIONS
1	Unravelling the roles of H ⁺ , Na ⁺ and K ⁺ cations over the self-photorechargeability of a Pt-mediated MoO ₃ photoanode-driven photoelectrochemical system: Experimental and DFT study. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107252.	6.7	1
2	Spatio-Temporal Solar-Wind Complementarity Assessment in the Province of Kalinga-Apayao, Philippines Using Canonical Correlation Analysis. <i>Sustainability</i> , 2022, 14, 3253.	3.2	1
3	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. <i>Journal of Energy Storage</i> , 2022, 52, 104681.	8.1	11
4	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. <i>Energy</i> , 2022, 257, 124599.	8.8	13
5	Fabrication of cellulose acetate-based radiation grafted anion exchange membranes for fuel cell application. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49947.	2.6	12
6	Alkaline earth atom doping-induced changes in the electronic and magnetic properties of graphene: a density functional theory study. <i>RSC Advances</i> , 2021, 11, 6268-6283.	3.6	10
7	Understanding the synergistic role of Pt-mediated MoO ₃ photoanode with self-photorechargeability during illuminated and non-illuminated conditions: A combined experimental and density functional theory study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 120, 381-390.	5.3	5
8	Insights on platinum-carbon catalyst degradation mechanism for oxygen reduction reaction in acidic and alkaline media. <i>Journal of Power Sources</i> , 2021, 487, 229356.	7.8	56
9	Development of Magnesium Anode-Based Transient Primary Batteries. <i>ChemistryOpen</i> , 2021, 10, 471-476.	1.9	5
10	Unravelling the roles of alkali-metal cations for the enhanced oxygen evolution reaction in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 119981.	20.2	34
11	Transition pathway towards 100% renewable energy across the sectors of power, heat, transport, and desalination for the Philippines. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 110934.	16.4	62
12	Comparative assessment of solar photovoltaic-wind hybrid energy systems: A case for Philippine off-grid islands. <i>Renewable Energy</i> , 2021, 179, 1589-1607.	8.9	29
13	Assessing demand compliance and reliability in the Philippine off-grid islands with Model Predictive Control microgrid coordination. <i>Renewable Energy</i> , 2021, 179, 1271-1290.	8.9	9
14	Determining the structure-antibacterial properties relationship and bacterial inactivation kinetics in different morphological-controlled ZnO nanoarchitectures for wastewater applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106646.	6.7	3
15	Multi-dimensional zinc oxide (ZnO) nanoarchitectures as efficient photocatalysts: What is the fundamental factor that determines photoactivity in ZnO?. <i>Journal of Hazardous Materials</i> , 2020, 381, 120958.	12.4	66
16	Impacts of morphological-controlled ZnO nanoarchitectures on aerobic microbial communities during real wastewater treatment in an aerobic-photocatalytic system. <i>Environmental Pollution</i> , 2020, 259, 113867.	7.5	6
17	Exploration of a novel Type II 1D-ZnO nanorods/BiVO ₄ heterojunction photocatalyst for water depollution. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 303-314.	5.8	34
18	Quantifying the Techno-Economic Potential of Grid-Tied Rooftop Solar Photovoltaics in the Philippine Industrial Sector. <i>Energies</i> , 2020, 13, 5070.	3.1	10

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19	Projecting the Price of Lithium-Ion NMC Battery Packs Using a Multifactor Learning Curve Model. <i>Energies</i> , 2020, 13, 5276.	3.1	24
20	What makes energy systems in climate-vulnerable islands resilient? Insights from the Philippines and Thailand. <i>Energy Research and Social Science</i> , 2020, 69, 101703.	6.4	13
21	Ethanol Electrooxidation on Phase- and Morphology-Controlled Ni(OH) ₂ Microspheres. <i>Catalysts</i> , 2020, 10, 740.	3.5	7
22	Arsenic Removal by Advanced Electrocoagulation Processes: The Role of Oxidants Generated and Kinetic Modeling. <i>Catalysts</i> , 2020, 10, 928.	3.5	8
23	Decentralized versus Clustered Microgrids: An Energy Systems Study for Reliable Off-Grid Electrification of Small Islands. <i>Energies</i> , 2020, 13, 4454.	3.1	12
24	Spatiotemporal Variation of Groundwater Arsenic in Pampanga, Philippines. <i>Water (Switzerland)</i> , 2020, 12, 2366.	2.7	5
25	A Comparative Techno-Economic Analysis of Different Desalination Technologies in Off-Grid Islands. <i>Energies</i> , 2020, 13, 2261.	3.1	27
26	Experimental Study of Three Channel Designs with Model Comparison in a PEM Fuel Cell. <i>Fuel Cells</i> , 2020, 20, 547-557.	2.4	38
27	Hydrothermally Carbonized Waste Biomass as Electrocatalyst Support for Ir-MnO ₂ in Oxygen Reduction Reaction. <i>Catalysts</i> , 2020, 10, 177.	3.5	11
28	Facile synthesis and characterisation of functional MoO ₃ photoanode with self-photorechargeability. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155624.	5.5	13
29	Cluster size effects on the adsorption of CO, O, and CO ₂ and the dissociation of CO ₂ on two-dimensional Cu _x (<i>x</i> = 1, 3, and 7) clusters supported on Cu(111) surface: a density functional theory study. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 405201.	1.8	3
30	Electrolyte-Dependent Oxygen Evolution Reactions in Alkaline Media: Electrical Double Layer and Interfacial Interactions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33748-33758.	8.0	59
31	One-pot hydrothermal synthesis of heteroatom co-doped with fluorine on reduced graphene oxide for enhanced ORR activity and stability in alkaline media. <i>Materials Chemistry and Physics</i> , 2019, 236, 121804.	4.0	16
32	On the transferability of smart energy systems on off-grid islands using cluster analysis – A case study for the Philippine archipelago. <i>Applied Energy</i> , 2019, 251, 113290.	10.1	36
33	Interaction of CO, O, and CO ₂ with Cu cluster supported on Cu(100): a density functional theory study. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 415201.	1.8	8
34	Energy Transition from Diesel-based to Solar Photovoltaics-Battery-Diesel Hybrid System-based Island Grids in the Philippines – Techno-Economic Potential and Policy Implication on Missionary Electrification. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2019, 7, 139-154.	1.9	45
35	Synthesis and characterisation of a novel bilayer tungsten trioxide nanojunction with different crystal growth orientation for improved photoactivity under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2018, 749, 268-275.	5.5	6
36	Electrochemical oxidation remediation of real wastewater effluents – A review. <i>Chemical Engineering Research and Design</i> , 2018, 113, 48-67.	5.6	515

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37	Monatomic oxygen adsorption on halogen-substituted monovacant graphene. International Journal of Hydrogen Energy, 2018, 43, 17673-17681.	7.1	1
38	Electrochemically-synthesized tungstate nanocomposites $\text{Î}^3\text{-WO}_3/\text{CuWO}_4$ and $\text{Î}^3\text{-WO}_3/\text{NiWO}_4$ thin films with improved band gap and photoactivity for solar-driven photoelectrochemical water oxidation. Journal of Alloys and Compounds, 2018, 762, 90-97.	5.5	24
39	Ammonium Vanadium Bronze ($\text{NH}_4\text{V}_4\text{O}_{10}$) as a High-Capacity Cathode Material for Nonaqueous Magnesium-Ion Batteries. Chemistry of Materials, 2018, 30, 3690-3696.	6.7	119
40	A novel ternary nanostructured carbonaceous-metal-semiconductor eRGO/NiO/ $\text{Î}^{\pm}\text{-Fe}_2\text{O}_3$ heterojunction photoanode with enhanced charge transfer properties for photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2017, 169, 236-244.	6.2	29
41	Pseudocapacitive Behavior of $\text{Ni(OH)}_2/\text{NiO}$ Hierarchical Structures Grown on Carbon Fiber Paper. Solid State Phenomena, 2017, 266, 177-181.	0.3	6
42	Prospects of electrochemically synthesized hematite photoanodes for photoelectrochemical water splitting: A review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 33, 54-82.	11.6	101
43	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.	3.1	11
44	S-Doped Graphitic Carbon Nitride as Potential Catalyst towards Oxygen Reduction Reaction. ECS Transactions, 2017, 77, 621-628.	0.5	8
45	Carbon Dioxide (CO_2) Electrocatalytic Recycling on Electrodeposited Nanostructured Copper-Gold Electrodes. ECS Transactions, 2017, 77, 1433-1438.	0.5	0
46	A First-Principles Study on the Electronic and Structural Properties of Halogen-Substituted Graphene. ECS Transactions, 2017, 77, 607-620.	0.5	3
47	CoMn_2O_4 Anchored on N-Doped High-Dimensional Hierarchical Porous Carbon Derived from Biomass for Bifunctional Oxygen Electrocatalysis. ECS Transactions, 2017, 77, 525-531.	0.5	1
48	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.	0.5	2
49	Exploring Novel Dopants in Graphene: Unique Properties, Group Trends, and New Insights from DFT for Electrocatalytic Applications. ECS Transactions, 2017, 77, 1383-1391.	0.5	0
50	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.	6.1	52
51	Elektrodenarchitektur in galvanischen und elektrolytischen Energiezellen. Angewandte Chemie, 2016, 128, 4952-4962.	2.0	0
52	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.	2.4	17
53	Electrode Architecture in Galvanic and Electrolytic Energy Cells. Angewandte Chemie - International Edition, 2016, 55, 4870-4880.	13.8	19
54	High-Power-Density Semiconductor-Air Batteries Based on p-Type Germanium with Different Crystal Orientations. ChemElectroChem, 2016, 3, 242-246.	3.4	13

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55	Effects of electrodeposition synthesis parameters on the photoactivity of nanostructured tungsten trioxide thin films: Optimisation study using response surface methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 61, 196-204.	5.3	21
56	Improvement of Energy Capacity with Vitaminâ€¦C Treated Dual-Layered Graphene-Sulfur Cathodes in Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2015, 8, 2754-2754.	6.8	5
57	Improvement of Energy Capacity with Vitaminâ€¦C Treated Dual-Layered Graphene-Sulfur Cathodes in Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2015, 8, 2883-2891.	6.8	20
58	Diagnosis of the measurement inconsistencies of carbon-based electrocatalysts for the oxygen reduction reaction in alkaline media. <i>RSC Advances</i> , 2015, 5, 1571-1580.	3.6	42
59	Alkaline CO ₂ Electrolysis toward Selective and Continuous HCOO ⁻ Production over SnO ₂ Nanocatalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4884-4890.	3.1	127
60	Controlled Electrochemical Etching of Nanoporous Si Anodes and Its Discharge Behavior in Alkaline Si-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3126-3132.	8.0	26
61	Direct power generation from waste coffee grounds in a biomass fuel cell. <i>Journal of Power Sources</i> , 2015, 296, 433-439.	7.8	52
62	An optimized mild reduction route towards excellent cobalt-graphene catalysts for water oxidation. <i>RSC Advances</i> , 2015, 5, 64858-64864.	3.6	2
63	Ultrahigh purification in concentrated NaOH by electrowinning for solar cell application. <i>Separation and Purification Technology</i> , 2015, 145, 24-28.	7.9	3
64	Enhanced electrical and mass transfer characteristics of acid-treated carbon nanotubes for capacitive deionization. <i>Current Applied Physics</i> , 2015, 15, 1539-1544.	2.4	25
65	Insights into an autonomously formed oxygen-evacuated Cu ₂ O electrode for the selective production of C ₂ H ₄ from CO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 824-830.	2.8	197
66	Excavated Fe-N Sites for Enhanced Electrocatalytic Activity in the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2014, 7, 1289-1294.	6.8	40
67	Quasi-perpetual discharge behaviour in p-type Ge-air batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22487-22494.	2.8	22
68	Enhancing Role of Nickel in the Nickel-Palladium Bilayer for Electrocatalytic Oxidation of Ethanol in Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22473-22478.	3.1	35
69	Functionalized Graphene-Based Cathode for Highly Reversible Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2014, 7, 1265-1273.	6.8	51
70	Gently reduced graphene oxide incorporated into cobalt oxalate rods as bifunctional oxygen electrocatalyst. <i>Electrochimica Acta</i> , 2014, 140, 404-411.	5.2	38
71	Electrocatalytic oxygen evolution reaction at a FeNi composite on a carbon nanofiber matrix in alkaline media. <i>Chinese Journal of Catalysis</i> , 2014, 35, 891-895.	14.0	29
72	High Energy Density Germanium Anodes for Next Generation Lithium Ion Batteries. <i>Applied Chemistry for Engineering</i> , 2014, 25, 1-13.	0.2	14

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73	Carbon Electrodes in Capacitive Deionization Process. Applied Chemistry for Engineering, 2014, 25, 346-351.	0.2	2
74	Oxygen electrocatalysis in chemical energy conversion and storage technologies. Current Applied Physics, 2013, 13, 309-321.	2.4	167
75	An etched nanoporous Ge anode in a novel metal-air energy conversion cell. Physical Chemistry Chemical Physics, 2013, 15, 6333.	2.8	21
76	Ultrafast and stable hydrogen generation from sodium borohydride in methanol and water over Fe-B nanoparticles. Journal of Power Sources, 2013, 243, 444-450.	7.8	110
77	Enhanced reversible capacity of Li-S battery cathode based on graphene oxide. Journal of Energy Chemistry, 2013, 22, 336-340.	12.9	31
78	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