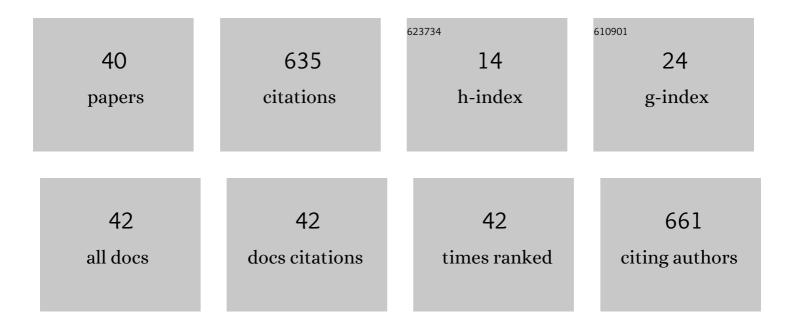
## Al Rey C Villagracia

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6987938/publications.pdf

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#	Article	IF	CITATIONS
1	Unit operations applied to drying microalgal biomass. , 2022, , 213-224.		Ο
2	Hydrogen adsorption on calcium, potassium, and magnesium-decorations aluminene using density functional theory. International Journal of Hydrogen Energy, 2021, 46, 16676-16684.	7.1	7
3	A Review on Nanocellulose and Its Application in Supercapacitors. Macromolecular Materials and Engineering, 2021, 306, 2100556.	3.6	16
4	Biomass–derived cellulose nanofibrils membrane from rice straw as sustainable separator for high performance supercapacitor. Industrial Crops and Products, 2021, 170, 113694.	5.2	54
5	Revealing the Water Resistance, Thermal and Biodegradation Properties of Citrus aurantifolia Crosslinked Tapioca Starch/Nanocellulose Bionanocomposites. Journal of Polymers and the Environment, 2020, 28, 3256-3269.	5.0	15
6	Chemical reactivity and bioactivity properties of pyrazinamide analogs of acetylsalicylic acid and salicylic acid using conceptual density functional theory. Heliyon, 2020, 6, e04239.	3.2	6
7	Investigation on water adsorption on 3-crosslinked circular polyacrylamide membrane using ab initio, molecular dynamics and monte carlo calculations for dewatering microalgae. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012144.	0.3	2
8	Unveiling the physicochemical properties of natural Citrus aurantifolia crosslinked tapioca starch/nanocellulose bionanocomposites. Industrial Crops and Products, 2019, 139, 111548.	5.2	36
9	First Principles Investigation on H2 Adsorption on the Pristine 2-Dimensional Hexagonal Aluminum. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012135.	0.3	8
10	Investigation of reverse ionic diffusion in forward-osmosis-aided dewatering of microalgae: A molecular dynamics study. Bioresource Technology, 2019, 279, 181-188.	9.6	21
11	First principles study of H <sub>2</sub> adsorption on Ni-decorated silicene. Materials Research Express, 2019, 6, 055509.	1.6	12
12	First Principles Investigation on the Elastic Properties of Mg, Ca, K-decorated Planar Aluminene. , 2019, , .		0
13	Elastic Properties of B, C, N-decorated on Planar Aluminene using Density Functional Theory. , 2019, , .		Ο
14	H2O Absorptivity on a Fully 4-crosslinked Polyacrylamide Membrane via Density Functional Theory and Monte Carlo Calculations for Draw Solution Recovery in Forward Osmosis. , 2019, , .		0
15	Ca and K decorated germanene as hydrogen storage: An ab initio study. International Journal of Hydrogen Energy, 2018, 43, 4393-4400.	7.1	54
16	Swelling behavior and chemical stability of chitosan/nanocellulose biocomposites. Polymer Composites, 2018, 39, E561.	4.6	19
17	Effects of salinity on the CO2 permeation across lipid bilayer for microalgae biofixation: a molecular dynamics study. Journal of Applied Phycology, 2018, 30, 55-61.	2.8	12
18	Density Functional Theory-based modeling and calculations of a polyamide molecular unit for		9

studying forward-osmosis-dewatering of microalgae. , 2018, , .

3

#	Article	IF	CITATIONS
19	Effect of Mesoporous Nanoparticles from LCD Glass Panels Waste toward Polypropylene Based Hybrid Composites. , 2018, , .		0
20	DFT Investigation on the Electronic and Water Adsorption Properties of Pristine and N-Doped TiO2 Nanotubes for Photocatalytic Water Splitting Applications. Journal of Electronic Materials, 2017, 46, 3592-3602.	2.2	24
21	Negative differential resistance in polymer tunnel diodes using atomic layer deposited, TiO2 tunneling barriers at various deposition temperatures. Organic Electronics, 2017, 47, 228-234.	2.6	7
22	Ab initio study on hydrogen interaction with calcium decorated silicon carbide nanotube. International Journal of Hydrogen Energy, 2017, 42, 11452-11460.	7.1	21
23	A comparative study of green composites based on tapioca starch and celluloses. AIP Conference Proceedings, 2017, , .	0.4	2
24	Course-grained molecular dynamics investigation on the effects of uniform electric field on DPPC lipid bilayer: With and without vacuum space. , 2017, , .		0
25	Effect of structural and dynamical properties of lipid bilayer on water permeation studied using course-grained molecular dynamics simulation. , 2017, , .		0
26	Co <sub>2</sub> transport from flue gas emission across the lipid membrane for microalgae biofixation. , 2017, , .		2
27	Tailoring the Chemical and Structural Properties of Graphene Oxide Nanoplatelets Synthesised at Room Temperature with Different Processing Times. Journal of Physical Science, 2017, 28, 19-40.	0.9	5
28	Effects of polypropylene methyl polyhedral oligomeric silsesquioxanes and polypropylene-grafted maleic anhydride compatibilizers on the properties of palm kernel shell reinforced polypropylene biocomposites. Polimeros, 2016, 26, 228-235.	0.7	12
29	Comparative Study of Microcelluloses Isolated From Two Different Biomasses with Commercial Cellulose. BioResources, 2016, 11, .	1.0	8
30	Microwave drying characteristics of microalgae (Chlorella vulgaris) for biofuel production. Clean Technologies and Environmental Policy, 2016, 18, 2441-2451.	4.1	42
31	Characterization of nanocellulose recovery from Elaeis guineensis frond for sustainable development. Clean Technologies and Environmental Policy, 2016, 18, 2503-2512.	4.1	63
32	H2adsorption on K decorated germanene surface: anab-initioinvestigation. Materials Research Express, 2016, 3, 115015.	1.6	16
33	Hydrogen adsorption on pristine, defected, and 3d-block transition metal-doped penta-graphene. International Journal of Hydrogen Energy, 2016, 41, 12157-12166.	7.1	78
34	Investigation of the drying characteristics of microalgae using microwave irradiation. , 2015, , .		2
35	Molecular dynamics study on the effects of varying temperature and pressure on phosphatidylcholine lipids for microalgae drying. , 2014, , .		3
36	Effect of compatibiliser on the accelerated weathering performance of polypropylene–silica nanocomposites. Materials Research Innovations, 2014, 18, S6-433-S6-438.	2.3	5

#	Article	IF	CITATIONS
37	Theoretical Investigation on Single-Wall Carbon Nanotubes Doped with Nitrogen, Pyridine-Like Nitrogen Defects, and Transition Metal Atoms. Journal of Nanomaterials, 2012, 2012, 1-14.	2.7	40
38	Theoretical Investigation on the Solubilization in Water of Functionalized Single-Wall Carbon Nanotubes. Journal of Nanotechnology, 2012, 2012, 1-6.	3.4	24
39	Utilization of Modified Palm Kernel Shell for Biocomposites Production. Key Engineering Materials, 0, 700, 60-69.	0.4	13
40	First principles investigation on the hydrogen adsorption on planar aluminene with boron, carbon, and nitrogen as impurities. Molecular Physics, 0, , .	1.7	0