

# Ronald Vargas

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4737051/publications.pdf>

Version: 2024-02-01

37  
papers

694  
citations

516710

16  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unfolding the Role of <i>B</i> Site-Selective Doping of Alivalent Cations on Enhancing Sacrificial Visible Light-Induced Photocatalytic H <sub>2</sub> and O <sub>2</sub> Evolution over BaTaO <sub>2</sub> N. ACS Catalysis, 2022, 12, 1403-1414.	11.2	27
2	Detoxifying SARS-CoV-2 antiviral drugs from model and real wastewaters by industrial waste-derived multiphase photocatalysts. Journal of Hazardous Materials, 2022, 429, 128300.	12.4	16
3	Elucidating the enhanced photoelectrochemical performance of zinc-blende ZnS/wurtzite ZnO heterojunction and adsorption of water molecules by molecular dynamics simulations. Materials Science in Semiconductor Processing, 2022, 142, 106494.	4.0	8
4	Eliciting the contribution of TiN to photoelectrochemical performance enhancement of Imma-LaTiO <sub>2</sub> N at neutral pH. Materials Today Energy, 2022, 27, 101053.	4.7	5
5	Unraveling the photoelectrochemical behavior of Ni-modified ZnO and TiO <sub>2</sub> thin films fabricated by RF magnetron sputtering. Journal of Electroanalytical Chemistry, 2021, 882, 115009.	3.8	21
6	Exploring Chemical Kinetics at Home in Times of Pandemic: Following the Bleaching of Food Dye Allura Red Using a Smartphone. Journal of Chemical Education, 2021, 98, 2117-2121.	2.3	19
7	Photocatalytic Oxidation of Urea on Surface-Modified Bi <sub>2</sub> WO <sub>6</sub> with <i>trans</i> -4-Stilbenecarboxaldehyde. Journal of Physical Chemistry C, 2021, 125, 12682-12689.	3.1	10
8	Time-Retrenched Synthesis of BaTaO <sub>2</sub> N by Localizing an NH <sub>3</sub> Delivery System for Visible-Light-Driven Photoelectrochemical Water Oxidation at Neutral pH: Solid-State Reaction or Flux Method?. ACS Applied Energy Materials, 2021, 4, 9315-9327.	5.1	11
9	Fundamentals and applications of photoelectrocatalysis as an efficient process to remove pollutants from water: A review. Chemosphere, 2021, 281, 130821.	8.2	70
10	Unraveling Kinetic Effects during Photoelectrochemical Mineralization of Phenols. Rutile:Anatase TiO <sub>2</sub> Nanotube Photoanodes under Thin-Layer Conditions. Journal of Physical Chemistry C, 2021, 125, 610-617.	3.1	6
11	Chemical kinetics in solar to chemical energy conversion: The photoelectrochemical oxygen transfer reaction. Energy Reports, 2020, 6, 2-12.	5.1	19
12	Electrochemical formation of copper phosphide from aqueous solutions of Cu(II) and hypophosphite ions. Electrochimica Acta, 2020, 354, 136705.	5.2	12
13	Photocatalysis and photoelectrochemical glucose oxidation on Bi <sub>2</sub> WO <sub>6</sub> : Conditions for the concomitant H <sub>2</sub> production. Renewable Energy, 2020, 152, 974-983.	8.9	36
14	Unprecedented large solvent (H <sub>2</sub> O vs D <sub>2</sub> O) isotope effect in semiconductors photooxidation. Journal of Physical Organic Chemistry, 2019, 32, e3952.	1.9	11
15	High-Field Growth of Semiconducting Anodic Oxide Films on Metal Surfaces for Photocatalytic Application. International Journal of Photoenergy, 2019, 2019, 1-15.	2.5	8
16	Binary flux-promoted formation of trigonal ZnIn <sub>2</sub> S <sub>4</sub> layered crystals using ZnS-containing industrial waste and their photocatalytic performance for H <sub>2</sub> production. Green Chemistry, 2018, 20, 3845-3856.	9.0	38
17	Minimizing electron-hole recombination in modified TiO <sub>2</sub> photocatalysis: electron transfer to solution as rate-limiting step in organic compounds degradation. Journal of Physical Organic Chemistry, 2017, 30, e3659.	1.9	7
18	Electrochemical oxygen transfer reactions: electrode materials, surface processes, kinetic models, linear free energy correlations, and perspectives. Journal of Solid State Electrochemistry, 2016, 20, 875-893.	2.5	28

#	ARTICLE	IF	CITATIONS
19	A novel nickel nanowire amperometric sensor: Direct current vs. alternating current strategies for ethanol, acetaldehyde and acetylcholine detection. <i>Journal of Electroanalytical Chemistry</i> , 2015, 740, 61-67.	3.8	16
20	A rotating disk study of the photocatalytic oxidation of p-nitrophenol on phosphorus-modified TiO <sub>2</sub> photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 529-534.	20.2	22
21	Photopotential decay delay on TiO <sub>2</sub> surface modified with p-benzaldehydes: consequences and applications. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 191-198.	1.9	5
22	ELECTROCHEMICAL OXIDATION OF LAMBDA-CYHALOTRIN ON PbO <sub>2</sub> -Bi ELECTRODES. <i>Quimica Nova</i> , 2015, , .	0.3	0
23	The Photocatalytic Oxidation of 4-Chlorophenol Using Bi <sub>2</sub> WO <sub>6</sub> under Solar Light Irradiation. <i>International Journal of Photochemistry</i> , 2014, 2014, 1-6.	1.0	3
24	A TiO <sub>2</sub> surface modified with copper(II) phthalocyanine-tetrasulfonic acid tetrasodium salt as a catalyst during photoinduced dichlorvos mineralization by visible solar light. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 8-14.	20.2	51
25	Modeling the Growth of Nanowire Arrays in Porous Membrane Templates. <i>Journal of the Electrochemical Society</i> , 2014, 161, E3341-E3347.	2.9	25
26	Electrochemical oxidation of dichlorvos on SnO <sub>2</sub> Sb <sub>2</sub> O <sub>5</sub> electrodes. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 107-111.	20.2	29
27	Photoelectrochemical solar cells based on Bi <sub>2</sub> WO <sub>6</sub> . <i>Quimica Nova</i> , 2014, 37, .	0.3	1
28	Catalytic hydrotreatment in reverse microemulsions under microwave irradiation. <i>Fuel</i> , 2013, 112, 338-346.	6.4	9
29	Kinetics of surface reactions on rotating disk electrodes. <i>Electrochimica Acta</i> , 2012, 80, 326-333.	5.2	19
30	Photocatalytic degradation of oil industry hydrocarbons models at laboratory and at pilot-plant scale. <i>Solar Energy</i> , 2010, 84, 345-351.	6.1	43
31	Kinetic study of the electrochemical mineralization of phenols in thin-layer condition. <i>Electrochimica Acta</i> , 2010, 55, 6501-6506.	5.2	12
32	Measurement of phenols dearomatization via electrolysis: The UV-Vis solid phase extraction method. <i>Water Research</i> , 2010, 44, 911-917.	11.3	12
33	Hydrogen bond interactions at the TiO <sub>2</sub> surface: Their contribution to the pH dependent photo-catalytic degradation of p-nitrophenol. <i>Journal of Molecular Catalysis A</i> , 2009, 300, 65-71.	4.8	41
34	Photocatalytic TiO <sub>2</sub> assisted decomposition of Triton X-100: inhibition of p-nitrophenol degradation. <i>Journal of Physical Organic Chemistry</i> , 2008, 21, 1072-1078.	1.9	13
35	The photocatalytic oxidation of dibenzothiophene (DBT). <i>Journal of Molecular Catalysis A</i> , 2008, 294, 74-81.	4.8	37
36	Mechanistic aspects of photocatalytic activity of metalloporphyrin-titanium mixtures in microemulsions. <i>Quimica Nova</i> , 0, , .	0.3	3

#	ARTICLE	IF	CITATIONS
37	Fotoelectroquímica en sistemas nanoestructurados: una discusión desde sus límites naturales. InfoANALÍTICA, 0, , 52-77.	0.1	0