

# Angel G Polanco Rodriguez

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/221251/angel-g-polanco-rodriguez-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69  
papers

7,659  
citations

24  
h-index

73  
g-index

73  
ext. papers

8,830  
ext. citations

8.3  
avg, IF

6.85  
L-index

#	Paper	IF	Citations
69	Removal of heavy metal ions from wastewaters: a review. <i>Journal of Environmental Management</i> , <b>2011</b> , 92, 407-18	7.9	5163
68	The use of zero-valent iron for groundwater remediation and wastewater treatment: a review. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 267, 194-205	12.8	1017
67	Chromium removal using resin supported nanoscale zero-valent iron. <i>Journal of Environmental Management</i> , <b>2013</b> , 128, 822-7	7.9	105
66	Adsorption, oxidation, and reduction behavior of arsenic in the removal of aqueous As(III) by mesoporous Fe/Al bimetallic particles. <i>Water Research</i> , <b>2016</b> , 96, 22-31	12.5	104
65	Studies on the optimum conditions using acid-washed zero-valent iron/aluminum mixtures in permeable reactive barriers for the removal of different heavy metal ions from wastewater. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 302, 437-446	12.8	98
64	Effective degradation of C.I. Acid Red 73 by advanced Fenton process. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 174, 17-22	12.8	85
63	Fe/Al bimetallic particles for the fast and highly efficient removal of Cr(VI) over a wide pH range: Performance and mechanism. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 298, 261-9	12.8	81
62	Facile preparation of magnetic mesoporous MnFeO@SiO-CTAB composites for Cr(VI) adsorption and reduction. <i>Environmental Pollution</i> , <b>2017</b> , 220, 1376-1385	9.3	69
61	Essential factors of an integrated moving bed biofilm reactor-membrane bioreactor: Adhesion characteristics and microbial community of the biofilm. <i>Bioresource Technology</i> , <b>2016</b> , 211, 574-83	11	66
60	Monitoring of organochlorine pesticides in blood of women with uterine cervix cancer. <i>Environmental Pollution</i> , <b>2017</b> , 220, 853-862	9.3	50
59	Cr(VI) removal by mesoporous FeOOH polymorphs: performance and mechanism. <i>RSC Advances</i> , <b>2016</b> , 6, 82118-82130	3.7	49
58	Synthesis and use of bimetallics and bimetal oxides in contaminants removal from water: a review. <i>RSC Advances</i> , <b>2015</b> , 5, 85395-85409	3.7	42
57	Impact of pesticides in karst groundwater. Review of recent trends in Yucatan, Mexico. <i>Groundwater for Sustainable Development</i> , <b>2018</b> , 7, 20-29	6	33
56	Coadsorption and subsequent redox conversion behaviors of As(III) and Cr(VI) on Al-containing ferrihydrite. <i>Environmental Pollution</i> , <b>2018</b> , 235, 660-669	9.3	31
55	Removal mechanism of selenite by FeO-precipitated mesoporous magnetic carbon microspheres. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 330, 93-104	12.8	30
54	A new insight into resource recovery of excess sewage sludge: feasibility of extracting mixed amino acids as an environment-friendly corrosion inhibitor for industrial pickling. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 279, 38-45	12.8	30
53	Occurrence, ecotoxicological risks of sulfonamides and their acetylated metabolites in the typical wastewater treatment plants and receiving rivers at the Pearl River Delta. <i>Science of the Total Environment</i> , <b>2020</b> , 709, 136192	10.2	29

52	Determination of the profile of DO and its mass transferring coefficient in a biofilm reactor packed with semi-suspended bio-carriers. <i>Bioresource Technology</i> , <b>2017</b> , 241, 54-62	11	27
51	Removal of hexavalent chromium from wastewater by acid-washed zero-valent aluminum. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 5592-5600		27
50	Degradation of Ni-EDTA complex by Fenton reaction and ultrasonic treatment for the removal of Ni <sup>2+</sup> ions. <i>Environmental Chemistry Letters</i> , <b>2010</b> , 8, 317-322	13.3	27
49	Levels of persistent organic pollutants in breast milk of Maya women in Yucatan, Mexico. <i>Environmental Monitoring and Assessment</i> , <b>2017</b> , 189, 59	3.1	26
48	Fe-Mn binary oxide decorated diatomite for rapid decolorization of methylene blue with H <sub>2</sub> O <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 478, 54-61	6.7	26
47	Insight into the microbial community and its succession of a coupling anaerobic-aerobic biofilm on semi-suspended bio-carriers. <i>Bioresource Technology</i> , <b>2018</b> , 247, 591-598	11	26
46	Removal of selenite by zero-valent iron combined with ultrasound: Se(IV) concentration changes, Se(VI) generation, and reaction mechanism. <i>Ultrasonics Sonochemistry</i> , <b>2016</b> , 29, 328-36	8.9	25
45	Synergistic effect of mesoporous ferrihydrite nanoparticles and Fe(II) on phosphate immobilization: Adsorption and chemical precipitation. <i>Powder Technology</i> , <b>2019</b> , 345, 786-795	5.2	23
44	Exploration of different adsorption performance and mechanisms of core-shell FeO@Ce-Zr oxide composites for Cr(VI) and Sb(III). <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 576, 10-20	9.3	21
43	Behaviors and fate of adsorbed Cr(VI) during Fe(II)-induced transformation of ferrihydrite-humic acid co-precipitates. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122272	12.8	20
42	Incorporating MnFe <sub>2</sub> O <sub>4</sub> onto the thiol-functionalized MCM-41 for effective capturing of Sb(III) in aqueous media. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 298, 110060	5.3	20
41	Residual micro organic pollutants and their biotoxicity of the effluent from the typical textile wastewater treatment plants at Pearl River Delta. <i>Science of the Total Environment</i> , <b>2019</b> , 657, 696-703	10.2	20
40	Biodiversity and succession of microbial community in a multi-habitat membrane bioreactor. <i>Bioresource Technology</i> , <b>2014</b> , 164, 354-61	11	19
39	CTAB-intercalated molybdenum disulfide nanosheets for enhanced simultaneous removal of Cr(VI) and Ni(II) from aqueous solutions. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 396, 122728	12.8	17
38	Three-dimensional transfer of Cr(VI) co-precipitated with ferrihydrite containing silicate and its redistribution and retention during aging. <i>Science of the Total Environment</i> , <b>2019</b> , 696, 133966	10.2	17
37	Variation of the characteristics of biofilm on the semi-suspended bio-carrier produced by a 3D printing technique: Investigation of a whole growing cycle. <i>Bioresource Technology</i> , <b>2017</b> , 244, 40-47	11	17
36	Removal of Cr(VI) from wastewater by supported nanoscale zero-valent iron on granular activated carbon. <i>Desalination and Water Treatment</i> , <b>2013</b> , 51, 2680-2686		16
35	Promoting the granulation process of aerobic granular sludge in an integrated moving bed biofilm-membrane bioreactor under a continuous-flowing mode. <i>Science of the Total Environment</i> , <b>2020</b> , 703, 135482	10.2	15

34	Influence of rainy season and land use on drinking water quality in a karst landscape, State of Yucatán, Mexico. <i>Applied Geochemistry</i> , <b>2018</b> , 98, 265-277	3.5	15
33	Simultaneous removal of chromium(VI) and phosphate from water using easily separable magnetite/pyrite nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 803, 118-125	5.7	14
32	Mn-incorporated ferrihydrite for Cr(VI) immobilization: Adsorption behavior and the fate of Cr(VI) during aging. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 417, 126073	12.8	14
31	Distribution and mass transfer of dissolved oxygen in a multi-habitat membrane bioreactor. <i>Bioresource Technology</i> , <b>2015</b> , 182, 323-328	11	13
30	Coexistence or aggression? Insight into the influence of phosphate on Cr(VI) adsorption onto aluminum-substituted ferrihydrite. <i>Chemosphere</i> , <b>2018</b> , 212, 408-417	8.4	13
29	Novel mesoporous FeAl bimetal oxides for As(III) removal: Performance and mechanism. <i>Chemosphere</i> , <b>2017</b> , 169, 297-307	8.4	13
28	Heterogeneity of the diverse aerobic sludge granules self-cultivated in a membrane bioreactor with enhanced internal circulation. <i>Bioresource Technology</i> , <b>2018</b> , 263, 297-305	11	12
27	Rapid reformation of larger aerobic granular sludge in an internal-circulation membrane bioreactor after long-term operation: Effect of short-time aeration. <i>Bioresource Technology</i> , <b>2019</b> , 273, 462-467	11	12
26	Risk Perception and Chronic Exposure to Organochlorine Pesticides in Maya Communities of Mexico. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2015</b> , 21, 1960-1979	4.9	8
25	Influence of Al(III) and Sb(V) on the transformation of ferrihydrite nanoparticles: Interaction among ferrihydrite, coprecipitated Al(III) and Sb(V). <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124423	12.8	8
24	Removal of chromium(VI) by MnFeO and ferrous ion: synergetic effects and reaction mechanism. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 30498-30507	5.1	7
23	Removal of Cr(VI) from wastewater using acid-washed zero-valent iron catalyzed by polyoxometalate under acid conditions: Efficacy, reaction mechanism and influencing factors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2015</b> , 47, 177-181	5.3	7
22	Tracing the occurrence of organophosphate ester along the river flow path and textile wastewater treatment processes by using dissolved organic matters as an indicator. <i>Science of the Total Environment</i> , <b>2020</b> , 722, 137895	10.2	6
21	Migration behavior of Cr(VI) during the transformation of ferrihydrite-Cr(VI) co-precipitates: The interaction between surfactants and co-precipitates. <i>Science of the Total Environment</i> , <b>2021</b> , 767, 145429	10.2	6
20	Selective and sensitive liquid-liquid extraction and spectrophotometric determination of tellurium(IV) using sulfur containing reagent. <i>Chemical Data Collections</i> , <b>2019</b> , 19, 100173	2.1	6
19	Effects of oxalate and citrate on the behavior and redistribution of Cr(VI) during ferrihydrite-Cr(VI) co-precipitates transformation. <i>Chemosphere</i> , <b>2021</b> , 266, 128977	8.4	6
18	Build-up of a continuous flow pre-coated dynamic membrane filter to treat diluted textile wastewater and identify its dynamic membrane fouling. <i>Journal of Environmental Management</i> , <b>2019</b> , 252, 109647	7.9	5
17	Removal of nitrate from water by acid-washed zero-valent iron/ferrous ion/hydrogen peroxide: influencing factors and reaction mechanism. <i>Water Science and Technology</i> , <b>2018</b> , 77, 525-533	2.2	5

16	Application of Carbon Microsphere Loaded with Magnetite Nanoparticles for the Removal of a Cationic Azo Dye: Efficiency and Mechanism. <i>Journal of Environmental Engineering, ASCE</i> , <b>2021</b> , 147, 04020147	4	4
15	Phase transformation of Cr(VI)-adsorbed ferrihydrite in the presence of Mn(II): Fate of Mn(II) and Cr(VI).. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 113, 251-259	6.4	4
14	Se(IV) oxidation by ferrate(VI) and subsequent in-situ removal of selenium species with the reduction products of ferrate(VI): performance and mechanism. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2020</b> , 55, 528-536	2.3	3
13	Removal of Cr(VI) from wastewater by FeOOH supported on Amberlite IR120 resin. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 17767-17773		2
12	Mobility and transformation of Cr(VI) on the surface of goethite in the presence of oxalic acid and Mn(II). <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 26115-26124	5.1	1
11	Fate of metal-EDTA complexes during ferrihydrite aging: Interaction of metal-EDTA and iron oxides. <i>Chemosphere</i> , <b>2021</b> , 132791	8.4	1
10	Rapid granulation of aerobic granular sludge and maintaining its stability by combining the effects of multi-ionic matrix and bio-carrier in a continuous-flow membrane bioreactor.. <i>Science of the Total Environment</i> , <b>2021</b> , 813, 152644	10.2	1
9	Fate of Cr(VI) during aging of ferrihydrite-humic acid co-precipitates: Comparative studies of structurally incorporated Al(III) and Mn(II). <i>Science of the Total Environment</i> , <b>2021</b> , 807, 151073	10.2	1
8	Methods for Determination of Pesticides and Fate of Pesticides in the Fields <b>2020</b> , 41-58		1
7	Interaction between Se(IV) and fulvic acid and its impact on Se(IV) immobility in ferrihydrite-Se(IV) coprecipitates during aging. <i>Environmental Pollution</i> , <b>2021</b> , 293, 118552	9.3	0
6	Insights into the fouling layer of flat-sheet membrane and its development in an integrated oxidation ditch-membrane bioreactor. <i>Bioresource Technology</i> , <b>2021</b> , 345, 126466	11	0
5	Distribution characteristics of phosphorus-containing substances in a long running aerobic granular sludge-membrane bioreactor with no sludge discharge.. <i>Bioresource Technology</i> , <b>2022</b> , 347, 126694	11	0
4	Properties and mechanism of Cr(VI) adsorption and reduction by KFeO in presence of Mn(II). <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 1-9	2.6	0
3	Behaviors of Structural Fe(II) of Nontronite and Aqueous Fe(II) on Cr(VI) Removal in the Presence of Citrate. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1	2.6	0
2	First Evidence of Glyphosate in American Horseshoe Crab from the Yucatan Peninsula in Mexico. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2021</b> , 108, 646	2.7	
1	Towards deep purification of secondary textile effluent by using a dynamic membrane process: Pilot-scale verification.. <i>Science of the Total Environment</i> , <b>2021</b> , 814, 152699	10.2	