

Angel G Polanco Rodriguez

List of Publications by Year in Descending Order

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Version: 2024-04-24

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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	Distribution characteristics of phosphorus-containing substances in a long running aerobic granular sludge-membrane bioreactor with no sludge discharge.. <i>Bioresource Technology</i> , 2022 , 347, 126694	11	0
68	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> , 2022 , 113, 251-259	6.4	4
67	Fate of metal-EDTA complexes during ferrihydrite aging: Interaction of metal-EDTA and iron oxides. <i>Chemosphere</i> , 2021 , 132791	8.4	1
66	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> , 2021 , 293, 118552	9.3	0
65	First Evidence of Glyphosate in American Horseshoe Crab from the Yucatan Peninsula in Mexico. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021 , 108, 646	2.7	
64	Insights into the fouling layer of flat-sheet membrane and its development in an integrated oxidation ditch-membrane bioreactor. <i>Bioresource Technology</i> , 2021 , 345, 126466	11	0
63	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> , 2021 , 813, 152644	10.2	1
62	Towards deep purification of secondary textile effluent by using a dynamic membrane process: Pilot-scale verification.. <i>Science of the Total Environment</i> , 2021 , 814, 152699	10.2	
61	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> , 2021 , 807, 151073	10.2	1
60	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> , 2021 , 767, 145429	10.2	6
59	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> , 2021 , 408, 124423	12.8	8
58	Effects of oxalate and citrate on the behavior and redistribution of Cr(VI) during ferrihydrite-Cr(VI) co-precipitates transformation. <i>Chemosphere</i> , 2021 , 266, 128977	8.4	6
57	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> , 2021 , 147, 04020147	11.7	4
56	Mn-incorporated ferrihydrite for Cr(VI) immobilization: Adsorption behavior and the fate of Cr(VI) during aging. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126073	12.8	14
55	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> , 2020 , 27, 26115-26124	5.1	1
54	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> , 2020 , 576, 10-20	9.3	21
53	CTAB-intercalated molybdenum disulfide nanosheets for enhanced simultaneous removal of Cr(VI) and Ni(II) from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122728	12.8	17

52	Behaviors and fate of adsorbed Cr(VI) during Fe(II)-induced transformation of ferrihydrite-humic acid co-precipitates. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122272	12.8	20
51	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> , 2020 , 55, 528-536	2.3	3
50	Incorporating MnFe ₂ O ₄ onto the thiol-functionalized MCM-41 for effective capturing of Sb(III) in aqueous media. <i>Microporous and Mesoporous Materials</i> , 2020 , 298, 110060	5.3	20
49	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> , 2020 , 722, 137895	10.2	6
48	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> , 2020 , 709, 136192	10.2	29
47	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> , 2020 , 703, 135482	10.2	15
46	Properties and mechanism of Cr(VI) adsorption and reduction by KFeO in presence of Mn(II). <i>Environmental Technology (United Kingdom)</i> , 2020 , 1-9	2.6	0
45	Methods for Determination of Pesticides and Fate of Pesticides in the Fields 2020 , 41-58		1
44	Removal of chromium(VI) by MnFeO and ferrous ion: synergetic effects and reaction mechanism. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 30498-30507	5.1	7
43	Fe-Mn binary oxide decorated diatomite for rapid decolorization of methylene blue with H ₂ O ₂ . <i>Applied Surface Science</i> , 2019 , 478, 54-61	6.7	26
42	Simultaneous removal of chromium(VI) and phosphate from water using easily separable magnetite/pyrite nanocomposite. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 118-125	5.7	14
41	Synergistic effect of mesoporous ferrihydrite nanoparticles and Fe(II) on phosphate immobilization: Adsorption and chemical precipitation. <i>Powder Technology</i> , 2019 , 345, 786-795	5.2	23
40	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> , 2019 , 696, 133966	10.2	17
39	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> , 2019 , 252, 109647	7.9	5
38	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> , 2019 , 230, 1	2.6	0
37	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> , 2019 , 657, 696-703	10.2	20
36	Selective and sensitive liquid-liquid extraction and spectrophotometric determination of tellurium(IV) using sulfur containing reagent. <i>Chemical Data Collections</i> , 2019 , 19, 100173	2.1	6
35	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> , 2019 , 273, 462-467	11	12

34	Impact of pesticides in karst groundwater. Review of recent trends in Yucatan, Mexico. <i>Groundwater for Sustainable Development</i> , 2018 , 7, 20-29	6	33
33	Coadsorption and subsequent redox conversion behaviors of As(III) and Cr(VI) on Al-containing ferrihydrite. <i>Environmental Pollution</i> , 2018 , 235, 660-669	9.3	31
32	Insight into the microbial community and its succession of a coupling anaerobic-aerobic biofilm on semi-suspended bio-carriers. <i>Bioresource Technology</i> , 2018 , 247, 591-598	11	26
31	Heterogeneity of the diverse aerobic sludge granules self-cultivated in a membrane bioreactor with enhanced internal circulation. <i>Bioresource Technology</i> , 2018 , 263, 297-305	11	12
30	Coexistence or aggression? Insight into the influence of phosphate on Cr(VI) adsorption onto aluminum-substituted ferrihydrite. <i>Chemosphere</i> , 2018 , 212, 408-417	8.4	13
29	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> , 2018 , 77, 525-533	2.2	5
28	Influence of rainy season and land use on drinking water quality in a karst landscape, State of Yucatán, Mexico. <i>Applied Geochemistry</i> , 2018 , 98, 265-277	3.5	15
27	Levels of persistent organic pollutants in breast milk of Maya women in Yucatan, Mexico. <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 59	3.1	26
26	Removal mechanism of selenite by FeO-precipitated mesoporous magnetic carbon microspheres. <i>Journal of Hazardous Materials</i> , 2017 , 330, 93-104	12.8	30
25	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> , 2017 , 241, 54-62	11	27
24	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> , 2017 , 244, 40-47	11	17
23	Facile preparation of magnetic mesoporous MnFeO@SiO-CTAB composites for Cr(VI) adsorption and reduction. <i>Environmental Pollution</i> , 2017 , 220, 1376-1385	9.3	69
22	Novel mesoporous FeAl bimetal oxides for As(III) removal: Performance and mechanism. <i>Chemosphere</i> , 2017 , 169, 297-307	8.4	13
21	Monitoring of organochlorine pesticides in blood of women with uterine cervix cancer. <i>Environmental Pollution</i> , 2017 , 220, 853-862	9.3	50
20	Cr(VI) removal by mesoporous FeOOH polymorphs: performance and mechanism. <i>RSC Advances</i> , 2016 , 6, 82118-82130	3.7	49
19	Removal of hexavalent chromium from wastewater by acid-washed zero-valent aluminum. <i>Desalination and Water Treatment</i> , 2016 , 57, 5592-5600		27
18	Removal of selenite by zero-valent iron combined with ultrasound: Se(IV) concentration changes, Se(VI) generation, and reaction mechanism. <i>Ultrasonics Sonochemistry</i> , 2016 , 29, 328-36	8.9	25
17	Removal of Cr(VI) from wastewater by FeOOH supported on Amberlite IR120 resin. <i>Desalination and Water Treatment</i> , 2016 , 57, 17767-17773		2

16	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> , 2016 , 302, 437-446	12.8	98
15	Essential factors of an integrated moving bed biofilm reactor-membrane bioreactor: Adhesion characteristics and microbial community of the biofilm. <i>Bioresource Technology</i> , 2016 , 211, 574-83	11	66
14	Adsorption, oxidation, and reduction behavior of arsenic in the removal of aqueous As(III) by mesoporous Fe/Al bimetallic particles. <i>Water Research</i> , 2016 , 96, 22-31	12.5	104
13	Distribution and mass transfer of dissolved oxygen in a multi-habitat membrane bioreactor. <i>Bioresource Technology</i> , 2015 , 182, 323-328	11	13
12	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> , 2015 , 298, 261-9	12.8	81
11	Synthesis and use of bimetallics and bimetallic oxides in contaminants removal from water: a review. <i>RSC Advances</i> , 2015 , 5, 85395-85409	3.7	42
10	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> , 2015 , 47, 177-181	5.3	7
9	Risk Perception and Chronic Exposure to Organochlorine Pesticides in Maya Communities of Mexico. <i>Human and Ecological Risk Assessment (HERA)</i> , 2015 , 21, 1960-1979	4.9	8
8	The use of zero-valent iron for groundwater remediation and wastewater treatment: a review. <i>Journal of Hazardous Materials</i> , 2014 , 267, 194-205	12.8	1017
7	Biodiversity and succession of microbial community in a multi-habitat membrane bioreactor. <i>Bioresource Technology</i> , 2014 , 164, 354-61	11	19
6	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> , 2014 , 279, 38-45	12.8	30
5	Chromium removal using resin supported nanoscale zero-valent iron. <i>Journal of Environmental Management</i> , 2013 , 128, 822-7	7.9	105
4	Removal of Cr(VI) from wastewater by supported nanoscale zero-valent iron on granular activated carbon. <i>Desalination and Water Treatment</i> , 2013 , 51, 2680-2686		16
3	Removal of heavy metal ions from wastewaters: a review. <i>Journal of Environmental Management</i> , 2011 , 92, 407-18	7.9	5163
2	Degradation of Ni-EDTA complex by Fenton reaction and ultrasonic treatment for the removal of Ni ²⁺ ions. <i>Environmental Chemistry Letters</i> , 2010 , 8, 317-322	13.3	27
1	Effective degradation of C.I. Acid Red 73 by advanced Fenton process. <i>Journal of Hazardous Materials</i> , 2010 , 174, 17-22	12.8	85