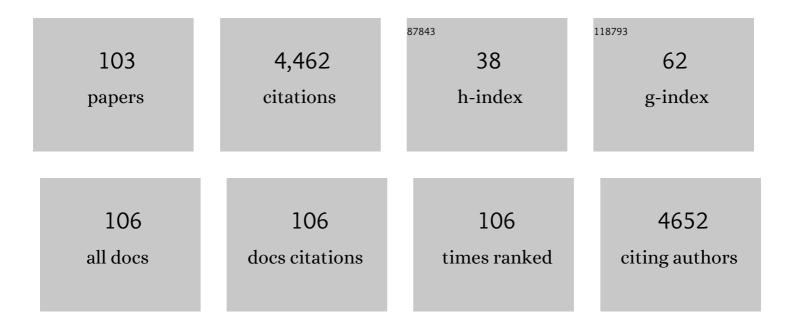
## Cesar Alberto Valderrama Angel

List of Publications by Year in descending order

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## Cesar Alberto Valderrama

#	Article	IF	CITATIONS
1	Sorption kinetics of polycyclic aromatic hydrocarbons removal using granular activated carbon: Intraparticle diffusion coefficients. Journal of Hazardous Materials, 2008, 157, 386-396.	6.5	239
2	Simultaneous phosphate and ammonium removal from aqueous solution by a hydrated aluminum oxide modified natural zeolite. Chemical Engineering Journal, 2015, 271, 204-213.	6.6	223
3	Phenol removal from aqueous solution by adsorption and ion exchange mechanisms onto polymeric resins. Journal of Colloid and Interface Science, 2009, 338, 402-409.	5.0	176
4	Implementation of best available techniques in cement manufacturing: a life-cycle assessment study. Journal of Cleaner Production, 2012, 25, 60-67.	4.6	150
5	Application of ZnO nanostructures in ceramic and polymeric membranes for water and wastewater technologies: A review. Chemical Engineering Journal, 2020, 391, 123475.	6.6	125
6	Concentration of NaCl from seawater reverse osmosis brines for the chlor-alkali industry by electrodialysis. Desalination, 2014, 342, 107-117.	4.0	120
7	Extraction of valuable metal ions (Cs, Rb, Li, U) from reverse osmosis concentrate using selective sorbents. Desalination, 2012, 286, 316-323.	4.0	99
8	Biogas deep clean-up based on adsorption technologies for Solid Oxide Fuel Cell applications. Chemical Engineering Journal, 2014, 255, 593-603.	6.6	99
9	Understanding the effects of the origin, occurrence, monitoring, control, fate and removal of siloxanes on the energetic valorization of sewage biogas—A review. Renewable and Sustainable Energy Reviews, 2015, 52, 366-381.	8.2	97
10	Polyphenols and their potential role to fight viral diseases: An overview. Science of the Total Environment, 2021, 801, 149719.	3.9	92
11	Oxidation by Fenton's reagent combined with biological treatment applied to a creosote-comtaminated soil. Journal of Hazardous Materials, 2009, 166, 594-602.	6.5	89
12	Kinetics of sorption of polyaromatic hydrocarbons onto granular activated carbon and Macronet hyper-cross-linked polymers (MN200). Journal of Colloid and Interface Science, 2007, 310, 35-46.	5.0	87
13	Comparative LCA of sewage sludge valorisation as both fuel and raw material substitute in clinker production. Journal of Cleaner Production, 2013, 51, 205-213.	4.6	87
14	Integration of nanofiltration and bipolar electrodialysis for valorization of seawater desalination brines: Production of drinking and waste water treatment chemicals. Desalination, 2016, 382, 13-20.	4.0	85
15	Recovery of ammonia from domestic wastewater effluents as liquid fertilizers by integration of natural zeolites and hollow fibre membrane contactors. Science of the Total Environment, 2017, 584-585, 244-251.	3.9	85
16	Selectrodialysis and bipolar membrane electrodialysis combination for industrial process brines treatment: Monovalent-divalent ions separation and acid and base production. Desalination, 2016, 399, 88-95.	4.0	80
17	Liquid fertilizer production by ammonia recovery from treated ammonia-rich regenerated streams using liquid-liquid membrane contactors. Chemical Engineering Journal, 2019, 360, 890-899.	6.6	75
18	Integration of monopolar and bipolar electrodialysis for valorization of seawater reverse osmosis desalination brines: Production of strong acid and base. Desalination, 2016, 398, 87-97.	4.0	74

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19	Evaluation of hydroxyapatite crystallization in a batch reactor for the valorization of alkaline phosphate concentrates from wastewater treatment plants using calcium chloride. Chemical Engineering Journal, 2015, 267, 142-152.	6.6	71
20	Fly ash as reactive sorbent for phosphate removal from treated waste water as a potential slow release fertilizer. Journal of Environmental Chemical Engineering, 2017, 5, 160-169.	3.3	66
21	Kinetic evaluation of phenol/aniline mixtures adsorption from aqueous solutions onto activated carbon and hypercrosslinked polymeric resin (MN200). Reactive and Functional Polymers, 2010, 70, 142-150.	2.0	63
22	Grey water reclamation by decentralized MBR prototype. Resources, Conservation and Recycling, 2013, 72, 102-107.	5.3	63
23	Application of two sites non-equilibrium sorption model for the removal of Cu(II) onto grape stalk wastes in a fixed-bed column. Chemical Engineering Journal, 2010, 156, 298-304.	6.6	57
24	Valorization of ammonia concentrates from treated urban wastewater using liquid–liquid membrane contactors. Chemical Engineering Journal, 2016, 302, 641-649.	6.6	55
25	Powdered Caâ€activated zeolite for phosphate removal from treated wasteâ€water. Journal of Chemical Technology and Biotechnology, 2016, 91, 1962-1971.	1.6	53
26	Cadmium and Lead Removal from Aqueous Solution by Grape Stalk Wastes: Modeling of a Fixed-Bed Column. Journal of Chemical & Engineering Data, 2010, 55, 3548-3554.	1.0	51
27	Winery wastewater treatment for water reuse purpose: Conventional activated sludge versus membrane bioreactor (MBR). Desalination, 2012, 306, 1-7.	4.0	51
28	Application of selectrodialysis for the removal of As from metallurgical process waters: Recovery of Cu and Zn. Separation and Purification Technology, 2018, 195, 404-412.	3.9	51
29	Kinetic study of acid red "dye―removal by activated carbon and hyper-cross-linked polymeric sorbents Macronet Hypersol MN200 and MN300. Reactive and Functional Polymers, 2008, 68, 718-731.	2.0	49
30	Modification of a natural zeolite with Fe( <scp>III</scp> ) for simultaneous phosphate and ammonium removal from aqueous solutions. Journal of Chemical Technology and Biotechnology, 2016, 91, 1737-1746.	1.6	49
31	Kinetics of polycyclic aromatic hydrocarbons removal using hyper-cross-linked polymeric sorbents Macronet Hypersol MN200. Reactive and Functional Polymers, 2007, 67, 1515-1529.	2.0	48
32	Evaluation of Selective Sorbents for the Extraction of Valuable Metal Ions (Cs, Rb, Li, U) from Reverse Osmosis Rejected Brine. Solvent Extraction and Ion Exchange, 2010, 28, 543-562.	0.8	48
33	Enhancing the efficiency of solar pond heat extraction by using both lateral and bottom heat exchangers. Solar Energy, 2016, 134, 82-94.	2.9	48
34	Sorption and mobility of Sb(V) in calcareous soils of Catalonia (NE Spain): Batch and column experiments. Geoderma, 2011, 160, 468-476.	2.3	44
35	Integration of liquid-liquid membrane contactors and electrodialysis for ammonium recovery and concentration as a liquid fertilizer. Chemosphere, 2020, 245, 125606.	4.2	44

 $_{36}$  Evaluation of hyper-cross-linked polymeric sorbents (Macronet MN200 and MN300) on dye (Acid red) Tj ETQq0 0 0 $_{2.9}^{rgBT}$  /Overlock 10 Tf

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37	Fruit and vegetable processing wastes as natural sources of antioxidant-rich extracts: Evaluation of advanced extraction technologies by surface response methodology. Journal of Environmental Chemical Engineering, 2021, 9, 105330.	3.3	41
38	Solar energy storage by salinity gradient solar pond: Pilot plant construction and gradient control. Desalination, 2011, 279, 445-450.	4.0	40
39	Phosphate removal from aqueous solution using a hybrid impregnated polymeric sorbent containing hydrated ferric oxide ( <scp>HFO</scp> ). Journal of Chemical Technology and Biotechnology, 2016, 91, 693-704.	1.6	40
40	Evaluation of NF membranes as treatment technology of acid mine drainage: metals and sulfate removal. Desalination, 2018, 440, 122-134.	4.0	39
41	Recovery of ammonium and phosphate from treated urban wastewater by using potassium clinoptilolite impregnated hydrated metal oxides as N-P-K fertilizer. Journal of Environmental Chemical Engineering, 2016, 4, 3519-3526.	3.3	38
42	Phosphate removal from aqueous solutions using a hybrid fibrous exchanger containing hydrated ferric oxide nanoparticles. Journal of Environmental Chemical Engineering, 2016, 4, 388-397.	3.3	38
43	Cr(III) removal from aqueous solutions: A straightforward model approaching of the adsorption in a fixed-bed column. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 179-186.	0.9	37
44	Simultaneous ammonium and phosphate recovery and stabilization from urban sewage sludge anaerobic digestates using reactive sorbents. Science of the Total Environment, 2018, 630, 781-789.	3.9	37
45	Design, construction, and operation of the first industrial salinity-gradient solar pond in Europe: An efficiency analysis perspective. Solar Energy, 2018, 164, 316-326.	2.9	37
46	Increasing the storage capacity of a solar pond by using solar thermal collectors: Heat extraction and heat supply processes using in-pond heat exchangers. Solar Energy, 2018, 171, 112-121.	2.9	37
47	Techno-economic evaluation and comparison of PAC-MBR and ozonation-UV revamping for organic micro-pollutants removal from urban reclaimed wastewater. Science of the Total Environment, 2019, 671, 288-298.	3.9	37
48	Salinity gradient solar pond: Validation and simulation model. Solar Energy, 2013, 98, 366-374.	2.9	35
49	Phosphate recovery from aqueous solution by K-zeolite synthesized from fly ash for subsequent valorisation as slow release fertilizer. Science of the Total Environment, 2020, 731, 139002.	3.9	34
50	Reactive transport of arsenic(III) and arsenic(V) on natural hematite: Experimental and modeling. Journal of Colloid and Interface Science, 2010, 348, 293-297.	5.0	33
51	Valorisation of Ca and Mg byâ€products from mining and seawater desalination brines for water treatment applications. Journal of Chemical Technology and Biotechnology, 2014, 89, 872-883.	1.6	33
52	Modelling of the Ni(II) removal from aqueous solutions onto grape stalk wastes in fixed-bed column. Journal of Hazardous Materials, 2010, 174, 144-150.	6.5	32
53	Stabilisation of dewatered domestic sewage sludge by lime addition as raw material for the cement industry: Understanding process and reactor performance. Chemical Engineering Journal, 2013, 232, 458-467.	6.6	32
54	Recovery of Rare Earth Elements from acidic mine waters by integration of a selective chelating ion-exchanger and a solvent impregnated resin. Journal of Environmental Chemical Engineering, 2021, 9, 105906.	3.3	31

Cesar Alberto Valderrama

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55	Biogas biological desulphurisation under extremely acidic conditions for energetic valorisation in Solid Oxide Fuel Cells. Chemical Engineering Journal, 2014, 255, 677-685.	6.6	29
56	Recovery of Ammonium by Powder Synthetic Zeolites from Wastewater Effluents: Optimization of the Regeneration Step. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	29
57	A Phosphorous Flow Analysis in Spain. Science of the Total Environment, 2018, 612, 995-1006.	3.9	29
58	Evaluation of a pilot-scale sewage biogas powered 2.8ÂkWe Solid Oxide Fuel Cell: Assessment of heat-to-power ratio and influence of oxygen content. Journal of Power Sources, 2015, 300, 325-335.	4.0	28
59	Evaluation of polyaromatic hydrocarbon removal from aqueous solutions using activated carbon and hyperâ€crosslinked polymer (Macronet MN200). Journal of Chemical Technology and Biotechnology, 2009, 84, 236-245.	1.6	27
60	Simultaneous recovery of ammonium and phosphate from simulated treated wastewater effluents by activated calcium and magnesium zeolites. Journal of Chemical Technology and Biotechnology, 2017, 92, 2400-2409.	1.6	27
61	Use of nutrient-enriched zeolite (NEZ) from urban wastewaters in amended soils: Evaluation of plant availability of mineral elements. Science of the Total Environment, 2020, 727, 138646.	3.9	27
62	Integration of selectrodialysis and solvent-impregnated resins for Zn(II) and Cu(II) recovery from hydrometallurgy effluents containing As(V). Separation and Purification Technology, 2019, 229, 115818.	3.9	26
63	Evaluating Binary Sorption of Phenol/Aniline fromAqueous Solutions onto Granular Activated Carbon and Hypercrosslinked Polymeric Resin (MN200). Water, Air, and Soil Pollution, 2010, 210, 421-434.	1.1	25
64	Valorisation of N and P from waste water by using natural reactive hybrid sorbents: Nutrients (N,P,K) release evaluation in amended soils by dynamic experiments. Science of the Total Environment, 2018, 612, 728-738.	3.9	25
65	Study of the operational parameters in the hollow fibre liquid-liquid membrane contactors process for ammonia valorisation as liquid fertiliser. Separation and Purification Technology, 2021, 255, 117768.	3.9	25
66	Potentiometric electronic tongue-flow injection analysis system for the monitoring of heavy metal biosorption processes. Talanta, 2012, 93, 285-292.	2.9	24
67	Stability analysis of an industrial salinity gradient solar pond. Solar Energy, 2019, 180, 216-225.	2.9	24
68	On-site cogeneration with sewage biogas via high-temperature fuel cells: Benchmarking against other options based on industrial-scale data. Fuel Processing Technology, 2015, 138, 654-662.	3.7	23
69	Valorisation options for Zn and Cu recovery from metal influenced acid mine waters through selective precipitation and ion-exchange processes: promotion of on-site/off-site management options. Journal of Environmental Management, 2021, 283, 112004.	3.8	23
70	Ammonium removal by liquid–liquid membrane contactors in water purification process for hydrogen production. Desalination and Water Treatment, 2015, 56, 3607-3616.	1.0	22
71	Recovery of nutrients (N-P-K) from potassium-rich sludge anaerobic digestion side-streams by integration of a hybrid sorption-membrane ultrafiltration process: Use of powder reactive sorbents as nutrient carriers. Science of the Total Environment, 2017, 599-600, 422-430.	3.9	20
72	Integration of membrane distillation as volume reduction technology for in-land desalination brines management: Pre-treatments and scaling limitations. Journal of Environmental Management, 2021, 289, 112549.	3.8	19

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73	Iron-doped natural clays: Low-cost inorganic adsorbents for phosphate recovering from simulated urban treated wastewater. Journal of Water Process Engineering, 2021, 43, 102274.	2.6	19
74	Simultaneous nutrients (N,P) removal by using a hybrid inorganic sorbent impregnated with hydrated manganese oxide. Journal of Environmental Chemical Engineering, 2017, 5, 1516-1525.	3.3	17
75	Phosphate recovery from treated municipal wastewater using hybrid anion exchangers containing hydrated ferric oxide nanoparticles. Journal of Chemical Technology and Biotechnology, 2018, 93, 358-364.	1.6	17
76	Integration of Monopolar and Bipolar Electrodialysis Processes for Tartaric Acid Recovery from Residues of the Winery Industry. ACS Sustainable Chemistry and Engineering, 2020, 8, 13387-13399.	3.2	17
77	Recovery of Added-Value Compounds from Orange and Spinach Processing Residues: Green Extraction of Phenolic Compounds and Evaluation of Antioxidant Activity. Antioxidants, 2021, 10, 1800.	2.2	17
78	Anticipatory life cycle analysis framework for sustainable management of end-of-life crystalline silicon photovoltaic panels. Energy, 2022, 245, 123207.	4.5	16
79	Thermal performance of 500†m2 salinity gradient solar pond in Granada, Spain under strong weather conditions. Solar Energy, 2018, 171, 223-228.	2.9	15
80	Nutrients recovery from treated secondary mainstream in an urban wastewater treatment plant: A financial assessment case study. Science of the Total Environment, 2019, 656, 902-909.	3.9	15
81	Impacts on effluent contaminants from mine sites: risk assessment, fate, and distribution of pollution at basin scale. Environmental Science and Pollution Research, 2014, 21, 5960-5971.	2.7	13
82	Evolution of electrolyte mixtures rejection behaviour using nanofiltration membranes under spiral wound and flat-sheet configurations. Desalination and Water Treatment, 2015, 56, 3519-3529.	1.0	13
83	Hydroxyapatite Coatings on Calcite Powder for the Removal of Heavy Metals from Contaminated Water. Water (Switzerland), 2021, 13, 1493.	1.2	13
84	Life cycle assessment and economic analysis of the electric motorcycle in the city of Barcelona and the impact on air pollution. Science of the Total Environment, 2022, 821, 153419.	3.9	13
85	Integration of Powdered Ca-Activated Zeolites in a Hybrid Sorption–Membrane Ultrafiltration Process for Phosphate Recovery. Industrial & Engineering Chemistry Research, 2016, 55, 6204-6212.	1.8	12
86	Evaluation of Phenol/Aniline (Single and Binary) Removal from Aqueous Solutions onto Hyper-cross-linked Polymeric Resin (Macronet MN200) and Granular Activated Carbon in Fixed-Bed Column. Water, Air, and Soil Pollution, 2011, 215, 285-297.	1.1	11
87	Simultaneous and automated monitoring of the multimetal biosorption processes by potentiometric sensor array and artificial neural network. Talanta, 2013, 114, 17-24.	2.9	11
88	Trace ammonium removal by liquid–liquid membrane contactors as water polishing step of water electrolysis for hydrogen production from a wastewater treatment plant effluent. Journal of Chemical Technology and Biotechnology, 2016, 91, 2983-2993.	1.6	11
89	Detrimental effects of magnesium (II) on hydroxyapatite precipitation from synthetic industrial brines. Chemical Engineering Journal, 2016, 283, 572-581.	6.6	11
90	Hybrid sorption and pressure-driven membrane technologies for organic micropollutants removal in advanced water reclamation: A techno-economic assessment. Journal of Cleaner Production, 2020, 273, 123108.	4.6	11

## Cesar Alberto Valderrama

#	Article	IF	CITATIONS
91	Characterization of chromium (III) removal from aqueous solutions by an immature coal (leonardite). Toward a better understanding of the phenomena involved. Clean Technologies and Environmental Policy, 2014, 16, 127-136.	2.1	10
92	Characterization of Azo Dye (Acid Red 14) Removal with Granular Activated Carbon: Equilibrium and Kinetic Data. Solvent Extraction and Ion Exchange, 2008, 26, 271-288.	0.8	9
93	Computer controlled-flow injection potentiometric system based on virtual instrumentation for the monitoring of metal-biosorption processes. Analytica Chimica Acta, 2010, 668, 26-34.	2.6	9
94	Ion-Exchange Technology for Lactic Acid Recovery in Downstream Processing: Equilibrium and Kinetic Parameters. Water (Switzerland), 2021, 13, 1572.	1.2	8
95	Binary Fixed Bed Modeling of Phenol/Aniline Removal from Aqueous Solutions onto Hyper-Cross-Linked Resin (Macronet MN200). Journal of Chemical & Engineering Data, 2012, 57, 1502-1508.	1.0	7
96	Transport of Strontium Through a Ca-bentonite (AlmerÃa, Spain) and Comparison with MX-80 Na-bentonite: Experimental and Modelling. Water, Air, and Soil Pollution, 2011, 218, 471-478.	1.1	6
97	Solar Ponds. , 2016, , 273-289.		6
98	Multivariate analysis of the operational parameters and environmental factors of an industrial solar pond. Solar Energy, 2021, 223, 113-124.	2.9	6
99	Wastewater treatment by MBR pilot plant: flat sheet and hollow fibre case studies. Desalination and Water Treatment, 2013, 51, 2423-2430.	1.0	5
100	Experimental Study of Mobility and Kinetic Characterization of Trace Elements in Contaminated Sediments from a River Basin in Northern Peru. Human and Ecological Risk Assessment (HERA), 2015, 21, 828-844.	1.7	2
101	Shared curriculum at KTH and UPC universities: Blended learning experience at the MSc SELECT programme. , 2018, , .		1
102	Electronic Tongue-FIA system for the Monitoring of Heavy Metal Biosorption Processes. , 2011, , .		0
103	Increasing Sustainability on the Metallurgical Industry by Integration of Membrane NF Processes: Acid Recovery. Advances in Science, Technology and Innovation, 2020, , 411-413.	0.2	0