

Eloy Garca-Calvo

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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.

100
papers

4,160
citations

35
h-index

63
g-index

104
ext. papers

4,592
ext. citations

7.1
avg, IF

5.46
L-index

#	Paper	IF	Citations
100	Occurrence of emerging pollutants in urban wastewater and their removal through biological treatment followed by ozonation. <i>Water Research</i> , 2010 , 44, 578-88	12.5	690
99	Pesticide chemical oxidation: state-of-the-art. <i>Water Research</i> , 2000 , 34, 366-377	12.5	372
98	Physicochemical characterization and ecotoxicological assessment of CeO ₂ nanoparticles using two aquatic microorganisms. <i>Toxicological Sciences</i> , 2011 , 119, 135-45	4.4	148
97	Ranking potential impacts of priority and emerging pollutants in urban wastewater through life cycle impact assessment. <i>Chemosphere</i> , 2008 , 74, 37-44	8.4	138
96	Removal of pharmaceuticals and kinetics of mineralization by O ₃ /H ₂ O ₂ in a biotreated municipal wastewater. <i>Water Research</i> , 2008 , 42, 3719-28	12.5	127
95	Catalytic ozonation of naproxen and carbamazepine on titanium dioxide. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 48-57	21.8	124
94	Automatic searching and evaluation of priority and emerging contaminants in wastewater and river water by stir bar sorptive extraction followed by comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 2638-47	7.8	96
93	Fouling Resistant Polysulfone/PANI/TiO ₂ Ultrafiltration Nanocomposite Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 9470-9479	3.9	90
92	Identification of intermediates and assessment of ecotoxicity in the oxidation products generated during the ozonation of clofibric acid. <i>Journal of Hazardous Materials</i> , 2009 , 172, 1061-8	12.8	89
91	Spatio-temporal evaluation of organic contaminants and their transformation products along a river basin affected by urban, agricultural and industrial pollution. <i>Science of the Total Environment</i> , 2012 , 420, 134-45	10.2	83
90	An insight into the mechanisms of nanoceria toxicity in aquatic photosynthetic organisms. <i>Aquatic Toxicology</i> , 2012 , 122-123, 133-43	5.1	83
89	Degradation of caffeine and identification of the transformation products generated by ozonation. <i>Chemosphere</i> , 2009 , 74, 825-31	8.4	83
88	Fouling prevention, preparing for re-use and membrane recycling. Towards circular economy in RO desalination. <i>Desalination</i> , 2016 , 393, 16-30	10.3	81
87	Continuous ozonation treatment of ofloxacin: transformation products, water matrix effect and aquatic toxicity. <i>Journal of Hazardous Materials</i> , 2015 , 292, 34-43	12.8	73
86	Dibenzothiophene biodesulfurization in resting cell conditions by aerobic bacteria. <i>Biochemical Engineering Journal</i> , 2007 , 35, 191-197	4.2	69
85	Preparation, characterization and antifouling property of polyethersulfone/PMA ultrafiltration membranes. <i>Desalination</i> , 2012 , 299, 113-122	10.3	68
84	Sustainability of the water footprint of the Spanish pork industry. <i>Ecological Indicators</i> , 2015 , 57, 465-474	5.8	61

83	Antifouling membranes prepared by electrospinning polylactic acid containing biocidal nanoparticles. <i>Journal of Membrane Science</i> , 2012 , 405-406, 134-140	9.6	55
82	Personal care product preservatives: risk assessment and mixture toxicities with an industrial wastewater. <i>Water Research</i> , 2015 , 72, 174-85	12.5	55
81	Pilot survey of chemical contaminants from industrial and human activities in river waters of Spain. <i>International Journal of Environmental Analytical Chemistry</i> , 2010 , 90, 321-343	1.8	55
80	Oxidative and photochemical processes for the removal of galaxolide and tonalide from wastewater. <i>Water Research</i> , 2012 , 46, 4435-47	12.5	54
79	A fluid dynamic model for three-phase airlift reactors. <i>Chemical Engineering Science</i> , 1999 , 54, 2359-2370	4.4	51
78	Ozonation of clofibric acid catalyzed by titanium dioxide. <i>Journal of Hazardous Materials</i> , 2009 , 169, 411-8	12.8	50
77	Transformation of end-of-life RO membranes into NF and UF membranes: Evaluation of membrane performance. <i>Journal of Membrane Science</i> , 2015 , 495, 305-315	9.6	47
76	CuO/SBA-15 catalyst for the catalytic ozonation of mesoxalic and oxalic acids. Water matrix effects. <i>Chemical Engineering Journal</i> , 2013 , 225, 164-173	14.7	47
75	Coagulation-Fenton coupled treatment for ecotoxicity reduction in highly polluted industrial wastewater. <i>Journal of Hazardous Materials</i> , 2010 , 181, 127-32	12.8	47
74	Oxidation of dissolved organic matter in the effluent of a sewage treatment plant using ozone combined with hydrogen peroxide (O ₃ /H ₂ O ₂). <i>Chemical Engineering Journal</i> , 2009 , 149, 311-318	14.7	45
73	Catalytic ozonation of atrazine and linuron on MnO _x /Al ₂ O ₃ and MnO _x /SBA-15 in a fixed bed reactor. <i>Chemical Engineering Journal</i> , 2010 , 165, 806-812	14.7	45
72	Energy efficiency for the removal of non-polar pollutants during ultraviolet irradiation, visible light photocatalysis and ozonation of a wastewater effluent. <i>Water Research</i> , 2013 , 47, 5546-56	12.5	41
71	Hydrodynamics and mass transfer prediction in a three-phase airlift reactor for marine sediment biotreatment. <i>Chemical Engineering Science</i> , 1999 , 54, 5347-5354	4.4	41
70	Toxicity of mixtures of perfluorooctane sulphonic acid with chlorinated chemicals and lipid regulators. <i>Chemosphere</i> , 2012 , 86, 24-9	8.4	39
69	Catalytic ozonation of fenofibric acid over alumina-supported manganese oxide. <i>Journal of Hazardous Materials</i> , 2010 , 183, 271-8	12.8	37
68	Simultaneous screening of targeted and non-targeted contaminants using an LC-QTOF-MS system and automated MS/MS library searching. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 878-93	2.2	36
67	A fluid dynamic model for bubble columns and airlift reactors. <i>Chemical Engineering Science</i> , 1991 , 46, 2947-2951	4.4	36
66	Effects of sample weight, particle size, purge gas and crystalline structure on the observed kinetic parameters of calcium carbonate decomposition. <i>Thermochimica Acta</i> , 1989 , 143, 339-345	2.9	35

65	Ozonation as pre-treatment of activated sludge process of a wastewater containing benzalkonium chloride and NiO nanoparticles. <i>Chemical Engineering Journal</i> , 2016 , 283, 740-749	14.7	34
64	Biodesulfurization of dibenzothiophene by growing cells of <i>Pseudomonas putida</i> CECT 5279 in biphasic media. <i>Chemosphere</i> , 2008 , 73, 663-9	8.4	34
63	Enhancement of dibenzothiophene biodesulfurization using β -cyclodextrins in oil-to-water media. <i>Fuel</i> , 2007 , 86, 2632-2636	7.1	34
62	Asymmetric Capacitive Deionization Utilizing Low Surface Area Carbon Electrodes Coated with Nanoporous Thin-Films of Al ₂ O ₃ and SiO ₂ . <i>Journal of the Electrochemical Society</i> , 2013 , 160, E71-E78	3.9	33
61	Validation of recycled membranes for treating brackish water at pilot scale. <i>Desalination</i> , 2018 , 433, 199-208	10.8	32
60	Environmental Risk Assessment of Emerging Pollutants in Water: Approaches Under Horizontal and Vertical EU Legislation. <i>Critical Reviews in Environmental Science and Technology</i> , 2011 , 41, 699-731	11.1	32
59	Effects of impurities in the kinetics of calcite decomposition. <i>Thermochimica Acta</i> , 1990 , 170, 7-11	2.9	29
58	The Water Footprint of Agriculture in Duero River Basin. <i>Sustainability</i> , 2015 , 7, 6759-6780	3.6	28
57	First evidences of PAMAM dendrimer internalization in microorganisms of environmental relevance: A linkage with toxicity and oxidative stress. <i>Nanotoxicology</i> , 2015 , 9, 706-18	5.3	27
56	Chemical and ecotoxicological assessment of poly(amidoamine) dendrimers in the aquatic environment. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 492-506	14.6	25
55	Kinetic analysis of thermogravimetric data; discrimination of integral models. <i>Thermochimica Acta</i> , 1984 , 73, 101-108	2.9	25
54	Circular economy in membrane technology: Using end-of-life reverse osmosis modules for preparation of recycled anion exchange membranes and validation in electro dialysis. <i>Journal of Membrane Science</i> , 2020 , 593, 117423	9.6	25
53	A colloidal singularity reveals the crucial role of colloidal stability for nanomaterials in-vitro toxicity testing: nZVI-microalgae colloidal system as a case study. <i>PLoS ONE</i> , 2014 , 9, e109645	3.7	24
52	Determination of photodegradation and ozonation by products of linear alkylbenzene sulfonates by liquid chromatography and ion chromatography under controlled laboratory experiments. <i>Talanta</i> , 2004 , 64, 69-79	6.2	24
51	Recycling of end-of-life reverse osmosis membranes: Comparative LCA and cost-effectiveness analysis at pilot scale. <i>Resources, Conservation and Recycling</i> , 2019 , 150, 104423	11.9	23
50	Effect of sodium hypochlorite exposure on polysulfone recycled UF membranes and their surface characterization. <i>Polymer Degradation and Stability</i> , 2018 , 150, 46-56	4.7	23
49	Gas-liquid mass transfer in oil-water emulsions with an airlift bio-reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 2408-2412	3.7	23
48	Oxidation by-products and ecotoxicity assessment during the photodegradation of fenofibric acid in aqueous solution with UV and UV/H ₂ O ₂ . <i>Journal of Hazardous Materials</i> , 2011 , 194, 30-41	12.8	21

47	Description of by-product inhibition effects on biodesulfurization of dibenzothiophene in biphasic media. <i>Biodegradation</i> , 2008 , 19, 599-611	4.1	21
46	Comparison of experimental methods for determination of the volumetric mass transfer coefficient in fermentation processes. <i>Heat and Mass Transfer</i> , 2000 , 36, 201-207	2.2	21
45	Alternating current enhanced deposition of a monovalent selective coating for anion exchange membranes with antifouling properties. <i>Separation and Purification Technology</i> , 2019 , 229, 115807	8.3	19
44	Free chlorine exposure dose (ppm \cdot h) and its impact on RO membranes ageing and recycling potential. <i>Desalination</i> , 2019 , 457, 133-143	10.3	19
43	Preparation of loose polypiperazine amide membranes. Effect of the nanocomposite sublayer on the NF process performance. <i>Chemical Engineering Journal</i> , 2016 , 294, 431-438	14.7	16
42	Effect of mass transfer on biodesulfurization kinetics of alkylated forms of dibenzothiophene by <i>Pseudomonas putida</i> CECT5279. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 422-431	3.5	16
41	Environmental optimization of continuous flow ozonation for urban wastewater reclamation. <i>Science of the Total Environment</i> , 2012 , 437, 68-75	10.2	16
40	Fluid dynamics of airlift reactors: Two-phase friction factors. <i>AIChE Journal</i> , 1992 , 38, 1662-1666	3.6	16
39	Influence of water matrix on copper-catalysed continuous ozonation and related ecotoxicity. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 233-240	21.8	12
38	Fate and transformation products of amine-terminated PAMAM dendrimers under ozonation and irradiation. <i>Journal of Hazardous Materials</i> , 2014 , 266, 102-13	12.8	12
37	Prediction of gas hold-up and liquid velocity in airlift reactors using two-phase flow friction coefficients. <i>Journal of Chemical Technology and Biotechnology</i> , 1996 , 67, 388-396	3.5	12
36	Prediction of gas hold up and liquid velocity in airlift loop reactors containing highly viscous Newtonian liquids. <i>Chemical Engineering Science</i> , 1991 , 46, 2951-2954	4.4	12
35	Identification and quantification of poly(amidoamine) PAMAM dendrimers of generations 0 to 3 by liquid chromatography/hybrid quadrupole time-of-flight mass spectrometry in aqueous medium. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 747-62	2.2	10
34	Characterization of bioreaction processes: aerobic <i>Escherichia coli</i> cultures. <i>Journal of Biotechnology</i> , 2001 , 84, 107-18	3.7	10
33	Prediction of fluid dynamics and liquid mixing in bubble columns. <i>Chemical Engineering Science</i> , 1994 , 49, 3643-3649	4.4	10
32	Kinetics and Mechanism of Catalytic Ozonation of Aqueous Pollutants on Metal Oxide Catalysts. <i>Ozone: Science and Engineering</i> , 2011 , 33, 434-440	2.4	9
31	Chromatographic methods applied in the monitoring of biodesulfurization processes--state of the art. <i>Talanta</i> , 2007 , 73, 103-14	6.2	9
30	Qualitative and quantitative analysis of poly(amidoamine) dendrimers in an aqueous matrix by liquid chromatography-electrospray ionization-hybrid quadrupole/time-of-flight mass spectrometry (LC-ESI-QTOF-MS). <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 5901-14	4.4	8

29	Chemical and Ecotoxicological Assessment of Dendrimers in the Aquatic Environment. <i>Comprehensive Analytical Chemistry</i> , 2012 , 197-233	1.9	8
28	Determination of biomass yield for growth of <i>Candida utilis</i> on glucose: Black box and metabolic descriptions. <i>World Journal of Microbiology and Biotechnology</i> , 1999 , 15, 431-438	4.4	8
27	Kinetic analysis of non-isothermal solid decomposition reactions. An approach to the treatment of experimental data. <i>Thermochimica Acta</i> , 1992 , 203, 67-76	2.9	8
26	Ozone-based reclamation of an STP effluent. <i>Water Science and Technology</i> , 2011 , 63, 2123-30	2.2	7
25	Determination of PASHs by various analytical techniques based on gas chromatography-mass spectrometry: application to a biodesulfurization process. <i>Talanta</i> , 2008 , 75, 1158-66	6.2	7
24	Comparison of analysis methods for determination of the kinetic parameters in batch cultures. <i>World Journal of Microbiology and Biotechnology</i> , 2000 , 16, 845-851	4.4	7
23	A differential method for kinetics of non-isothermal solid decomposition. <i>Thermochimica Acta</i> , 1991 , 182, 235-241	2.9	7
22	A comparison of different methodologies for designing land application systems: Case study at the Redueña WWTP. <i>Desalination and Water Treatment</i> , 2009 , 4, 98-102		6
21	Modeling of <i>Escherichia coli</i> growth and acetate formation under different operational conditions. <i>Enzyme and Microbial Technology</i> , 2001 , 29, 449-455	3.8	6
20	Kinetic analysis of TG data: study of calcium oxalate monohydrate dehydration with a non-separable variables model. <i>Thermochimica Acta</i> , 1986 , 104, 71-76	2.9	6
19	Prospective Life Cycle Assessment and economic analysis of direct recycling of end-of-life reverse osmosis membranes based on Geographic Information Systems. <i>Journal of Cleaner Production</i> , 2021 , 282, 124400	10.3	6
18	Comparison of isothermal and non-isothermal TG data. Kinetic analysis of calcium oxalate dehydration. <i>Thermochimica Acta</i> , 1986 , 107, 283-290	2.9	5
17	Kinetic analysis of thermogravimetric data. Reaction rate determination. <i>Thermochimica Acta</i> , 1984 , 78, 93-100	2.9	5
16	Assessing METland Design and Performance Through LCA: Techno-Environmental Study With Multifunctional Unit Perspective. <i>Frontiers in Microbiology</i> , 2021 , 12, 652173	5.7	5
15	Influence of acid/base activation treatment in the performance of recycled electromembrane for fresh water production by electrodialysis. <i>Chemosphere</i> , 2020 , 248, 126027	8.4	4
14	Prediction of hydrodynamic behaviour in bubble columns. <i>Journal of Chemical Technology and Biotechnology</i> , 1996 , 66, 199-205	3.5	4
13	Kinetic analysis of thermogravimetric data. Comparison of integral discrimination methods. <i>Thermochimica Acta</i> , 1989 , 146, 75-85	2.9	4
12	Cloning, expression and immobilization of glutamate racemase from <i>Lactobacillus fermenti</i> for the production of D-glutamate from L-glutamate. <i>Biotechnology Letters</i> , 1998 , 20, 57-61	3	3

11	Volatile Fatty Acid Anaerobic Degradation: Kinetic Modeling with an Inoculum under Controlled Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 5337-5345	3.9	3
10	Comments on liquid circulation in airlift reactors. <i>Chemical Engineering Science</i> , 1989 , 44, 1269	4.4	2
9	Kinetic analysis of TG data. <i>Thermochimica Acta</i> , 1989 , 154, 263-269	2.9	2
8	Nitrate-Selective Anion Exchange Membranes Prepared using Discarded Reverse Osmosis Membranes as Support. <i>Membranes</i> , 2020 , 10,	3.8	2
7	Study of surface modification of recycled ultrafiltration membranes using statistical design of experiments. <i>Surfaces and Interfaces</i> , 2021 , 23, 100978	4.1	2
6	A simple mathematical model of the process of <i>Candida utilis</i> growth in a bioreactor. <i>World Journal of Microbiology and Biotechnology</i> , 2003 , 19, 391-398	4.4	1
5	THEORETICAL PREDICTION OF GAS HOLDUP IN BUBBLE COLUMNS WITH NEWTONIAN AND NON-NEWTONIAN LIQUIDS. <i>Chemical Engineering Communications</i> , 1996 , 143, 117-132	2.2	1
4	Nitrate Removal by Donnan Dialysis and Anion-Exchange Membrane Bioreactor Using Upcycled End-of-Life Reverse Osmosis Membranes.. <i>Membranes</i> , 2022 , 12,	3.8	1
3	Life Cycle Assessment application for emerging membrane recycling technologies: From reverse osmosis into forward osmosis. <i>Resources, Conservation and Recycling</i> , 2021 , 106075	11.9	1
2	Data of the life cycle impact assessment and cost analysis of prospective direct recycling of end-of-life reverse osmosis membrane at full scale. <i>Data in Brief</i> , 2020 , 33, 106487	1.2	1
1	Recycled reverse osmosis membranes for forward osmosis technology. <i>Desalination</i> , 2021 , 519, 115312	10.3	1