

Roberto Rosal

List of Publications by Citations

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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.

145 papers	5,950 citations	41 h-index	73 g-index
149 ext. papers	7,006 ext. citations	8.5 avg, IF	6.13 L-index

#	Paper	IF	Citations
145	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
144	Toxicity of five antibiotics and their mixtures towards photosynthetic aquatic organisms: implications for environmental risk assessment. <i>Water Research</i> , 2013 , 47, 2050-64	12.5	447
143	Kinetics of the deep oxidation of benzene, toluene, n-hexane and their binary mixtures over a platinum on alumina catalyst. <i>Applied Catalysis B: Environmental</i> , 2002 , 38, 139-149	21.8	197
142	Untangling the biological effects of cerium oxide nanoparticles: the role of surface valence states. <i>Scientific Reports</i> , 2015 , 5, 15613	4.9	187
141	Fate of microplastics in wastewater treatment plants and their environmental dispersion with effluent and sludge. <i>Environmental Pollution</i> , 2020 , 259, 113837	9.3	163
140	Physicochemical characterization and ecotoxicological assessment of CeO ₂ nanoparticles using two aquatic microorganisms. <i>Toxicological Sciences</i> , 2011 , 119, 135-45	4.4	148
139	Superhydrophilic anti-fouling electrospun cellulose acetate membranes coated with chitin nanocrystals for water filtration. <i>Journal of Membrane Science</i> , 2016 , 510, 238-248	9.6	142
138	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
137	Catalytic ozonation of naproxen and carbamazepine on titanium dioxide. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 48-57	21.8	124
136	Life Cycle Assessment of urban wastewater reuse with ozonation as tertiary treatment: a focus on toxicity-related impacts. <i>Science of the Total Environment</i> , 2009 , 407, 1245-56	10.2	110
135	Application of the combination index (CI)-isobologram equation to study the toxicological interactions of lipid regulators in two aquatic bioluminescent organisms. <i>Water Research</i> , 2010 , 44, 427-38	12.5	106
134	Secondary nanoplastics released from a biodegradable microplastic severely impact freshwater environments. <i>Environmental Science: Nano</i> , 2019 , 6, 1382-1392	7.1	105
133	Chemical and toxicological evolution of the antibiotic sulfamethoxazole under ozone treatment in water solution. <i>Journal of Hazardous Materials</i> , 2011 , 192, 18-25	12.8	102
132	Antimicrobial metal-organic frameworks incorporated into electrospun fibers. <i>Chemical Engineering Journal</i> , 2015 , 262, 189-197	14.7	101
131	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
130	Antimicrobial activity of cobalt imidazolate metal-organic frameworks. <i>Chemosphere</i> , 2014 , 113, 188-92	8.4	87
129	Ecotoxicological assessment of surfactants in the aquatic environment: combined toxicity of docusate sodium with chlorinated pollutants. <i>Chemosphere</i> , 2010 , 81, 288-93	8.4	86

128	Ecotoxicity assessment of lipid regulators in water and biologically treated wastewater using three aquatic organisms. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 135-44	5.1	85
127	Toxicological interactions of perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) with selected pollutants. <i>Journal of Hazardous Materials</i> , 2012 , 201-202, 209-18	12.8	84
126	An insight into the mechanisms of nanoceria toxicity in aquatic photosynthetic organisms. <i>Aquatic Toxicology</i> , 2012 , 122-123, 133-43	5.1	83
125	Degradation of caffeine and identification of the transformation products generated by ozonation. <i>Chemosphere</i> , 2009 , 74, 825-31	8.4	83
124	Antimicrobial and antibiofilm efficacy of self-cleaning surfaces functionalized by TiO photocatalytic nanoparticles against <i>Staphylococcus aureus</i> and <i>Pseudomonas putida</i> . <i>Journal of Hazardous Materials</i> , 2017 , 340, 160-170	12.8	82
123	Transformation products and reaction kinetics in simulated solar light photocatalytic degradation of propranolol using Ce-doped TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2013 , 129, 13-29	21.8	75
122	Fibers spreading worldwide: Microplastics and other anthropogenic litter in an Arctic freshwater lake. <i>Science of the Total Environment</i> , 2020 , 722, 137904	10.2	74
121	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
120	Bio-nano interface and environment: A critical review. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 3181-3193	3.8	62
119	Antifouling membranes prepared by electrospinning polylactic acid containing biocidal nanoparticles. <i>Journal of Membrane Science</i> , 2012 , 405-406, 134-140	9.6	55
118	Personal care product preservatives: risk assessment and mixture toxicities with an industrial wastewater. <i>Water Research</i> , 2015 , 72, 174-85	12.5	55
117	Oxidative and photochemical processes for the removal of galaxolide and tonalide from wastewater. <i>Water Research</i> , 2012 , 46, 4435-47	12.5	54
116	Occurrence and identification of microplastics along a beach in the Biosphere Reserve of Lanzarote. <i>Marine Pollution Bulletin</i> , 2019 , 143, 220-227	6.7	53
115	Antimicrobial electrospun silver-, copper- and zinc-doped polyvinylpyrrolidone nanofibers. <i>Journal of Hazardous Materials</i> , 2015 , 299, 298-305	12.8	51
114	Bioactive Applications for Electrospun Fibers. <i>Polymer Reviews</i> , 2016 , 56, 631-667	14	51
113	Ozonation of clofibric acid catalyzed by titanium dioxide. <i>Journal of Hazardous Materials</i> , 2009 , 169, 411-428	12.8	50
112	An Antibacterial Zn-MOF with Hydrazinebenzoate Linkers. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 574-580	2.3	48
111	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

110	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
109	A new method for enhancing the performance of red mud as a hydrogenation catalyst. <i>Applied Catalysis A: General</i> , 1999 , 180, 399-409	5.1	46
108	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
107	Catalytic ozonation of atrazine and linuron on MnOx/Al ₂ O ₃ and MnOx/SBA-15 in a fixed bed reactor. <i>Chemical Engineering Journal</i> , 2010 , 165, 806-812	14.7	45
106	Fouling and biofouling resistance of metal-doped mesostructured silica/polyethersulfone ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017 , 526, 252-263	9.6	42
105	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
104	Toxicity of mixtures of perfluorooctane sulphonic acid with chlorinated chemicals and lipid regulators. <i>Chemosphere</i> , 2012 , 86, 24-9	8.4	39
103	Hydrodechlorination of dichloromethane, trichloroethane, trichloroethylene and tetrachloroethylene over a sulfided Ni/Mo/Alumina catalyst. <i>Applied Catalysis B: Environmental</i> , 1999 , 20, 301-307	21.8	39
102	Additivity and Interactions in Ecotoxicity of Pollutant Mixtures: Some Patterns, Conclusions, and Open Questions. <i>Toxics</i> , 2015 , 3, 342-369	4.7	38
101	Catalytic ozonation of fenofibric acid over alumina-supported manganese oxide. <i>Journal of Hazardous Materials</i> , 2010 , 183, 271-8	12.8	37
100	Antimicrobial activity of poly(vinyl alcohol)-poly(acrylic acid) electrospun nanofibers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 146, 144-51	6	37
99	Occurrence and transport of microplastics sampled within and above the planetary boundary layer. <i>Science of the Total Environment</i> , 2021 , 761, 143213	10.2	35
98	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
97	Antimicrobial surfaces with self-cleaning properties functionalized by photocatalytic ZnO electrosprayed coatings. <i>Journal of Hazardous Materials</i> , 2019 , 369, 665-673	12.8	34
96	Catalytic hydrogenation of anthracene oil with red mud. <i>Fuel</i> , 1994 , 73, 688-694	7.1	33
95	Toxicological interactions of ibuprofen and triclosan on biological activity of activated sludge. <i>Journal of Hazardous Materials</i> , 2017 , 334, 193-200	12.8	31
94	Antibacterial surfaces prepared by electrospray coating of photocatalytic nanoparticles. <i>Chemical Engineering Journal</i> , 2018 , 334, 1108-1118	14.7	30
93	Application of zirconium dioxide nanoparticle sorbent for the clean-up step in post-harvest pesticide residue analysis. <i>Talanta</i> , 2015 , 144, 51-61	6.2	29

92	Coaxial poly(lactic acid) electrospun composite membranes incorporating cellulose and chitin nanocrystals. <i>Journal of Membrane Science</i> , 2017 , 544, 261-271	9.6	29
91	Determination of Wetting Efficiency in Trickle-Bed Reactors by a Reaction Method. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 2616-2625	3.9	29
90	Co, Zn and Ag-MOFs evaluation as biocidal materials towards photosynthetic organisms. <i>Science of the Total Environment</i> , 2017 , 595, 547-555	10.2	28
89	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
88	First detection of microplastics in the freshwater of an Antarctic Specially Protected Area. <i>Marine Pollution Bulletin</i> , 2020 , 161, 111811	6.7	27
87	Hidden drivers of low-dose pharmaceutical pollutant mixtures revealed by the novel GSA-QHTS screening method. <i>Science Advances</i> , 2016 , 2, e1601272	14.3	27
86	Incorporation of antimicrobial peptides on electrospun nanofibres for biomedical applications.. <i>RSC Advances</i> , 2018 , 8, 28013-28023	3.7	27
85	Viscosities and densities for binary mixtures of cresols. <i>Fluid Phase Equilibria</i> , 2003 , 211, 143-150	2.5	27
84	Honeybees as active samplers for microplastics. <i>Science of the Total Environment</i> , 2021 , 767, 144481	10.2	27
83	Electrospun cellulose acetate composites containing supported metal nanoparticles for antifungal membranes. <i>Science of the Total Environment</i> , 2016 , 563-564, 912-20	10.2	26
82	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
81	Catalytic hydrogenation of multiring aromatic hydrocarbons in a coal tar fraction. <i>Industrial & Engineering Chemistry Research</i> , 1992 , 31, 1007-1012	3.9	25
80	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
79	Microplastics as vectors of the antibiotics azithromycin and clarithromycin: Effects towards freshwater microalgae. <i>Chemosphere</i> , 2021 , 268, 128824	8.4	24
78	Combined toxicity of graphene oxide and wastewater to the green alga <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science: Nano</i> , 2018 , 5, 1729-1744	7.1	23
77	Electrospun boronic acid-containing polymer membranes as fluorescent sensors for bacteria detection. <i>Reactive and Functional Polymers</i> , 2017 , 121, 23-31	4.6	23
76	Noncatalytic Oxidation of Phenol in Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 46-51	3.9	23
75	Characterization and deactivation studies of an activated sulfided red mud used as hydrogenation catalyst. <i>Applied Catalysis A: General</i> , 1998 , 167, 215-223	5.1	22

74	Biocompatible antimicrobial electrospun nanofibers functionalized with ϵ -poly-L-lysine. <i>International Journal of Pharmaceutics</i> , 2018 , 553, 141-148	6.5	22
73	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
72	Inactivation of <i>Enterococcus faecalis</i> by TiO ₂ -mediated UV and solar irradiation in water and wastewater: culture techniques never say the whole truth. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 1744-50	4.2	20
71	Enhancement of gas/liquid mass transfer during the unsteady-state catalytic decomposition of ozone in water. <i>Applied Catalysis A: General</i> , 2006 , 305, 169-175	5.1	20
70	Characterization and deactivation of sulfided red mud used as hydrogenation catalyst. <i>Applied Catalysis A: General</i> , 1995 , 128, 259-273	5.1	20
69	Ozone-Based Technologies in Water and Wastewater Treatment. <i>Handbook of Environmental Chemistry</i> , 2008 , 127-175	0.8	20
68	Novel Antibacterial Azelaic Acid BioMOFs. <i>Crystal Growth and Design</i> , 2020 , 20, 370-382	3.5	20
67	A critical review of membrane modification techniques for fouling and biofouling control in pressure-driven membrane processes. <i>Nanotechnology for Environmental Engineering</i> , 2020 , 5, 1	5.1	18
66	Early and differential bacterial colonization on microplastics deployed into the effluents of wastewater treatment plants. <i>Science of the Total Environment</i> , 2021 , 757, 143832	10.2	18
65	Microplastics in sediments of artificially recharged lagoons: Case study in a Biosphere Reserve. <i>Science of the Total Environment</i> , 2020 , 729, 138824	10.2	17
64	Dendrimer-functionalized electrospun nanofibres as dual-action water treatment membranes. <i>Science of the Total Environment</i> , 2017 , 601-602, 732-740	10.2	17
63	Investigation of Galaxolide degradation products generated under oxidative and irradiation processes by liquid chromatography/hybrid quadrupole time-of-flight mass spectrometry and comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 1827-50	2.2	17
62	A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. <i>Environment International</i> , 2020 , 144, 106035	12.9	17
61	Environmental optimization of continuous flow ozonation for urban wastewater reclamation. <i>Science of the Total Environment</i> , 2012 , 437, 68-75	10.2	16
60	An Ag-loaded photoactive nano-metal organic framework as a promising biofilm treatment. <i>Acta Biomaterialia</i> , 2019 , 97, 490-500	10.8	15
59	Ozone-Based Technologies in Water and Wastewater Treatment 2008 , 127-175		15
58	Combined toxicity of graphite-diamond nanoparticles and thiabendazole to <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2019 , 688, 1145-1154	10.2	14
57	Poly(amidoamine) dendrimers grafted on electrospun poly(acrylic acid)/poly(vinyl alcohol) membranes for host-guest encapsulation of antioxidant thymol. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6776-6785	7.3	14

56	Biocide mechanism of highly efficient and stable antimicrobial surfaces based on zinc oxide-reduced graphene oxide photocatalytic coatings. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 8294-8304	7.3	14
55	Toxicity of superparamagnetic iron oxide nanoparticles to the microalga <i>Chlamydomonas reinhardtii</i> . <i>Chemosphere</i> , 2020 , 238, 124562	8.4	14
54	Reverse Trojan-horse effect decreased wastewater toxicity in the presence of inorganic nanoparticles. <i>Environmental Science: Nano</i> , 2017 , 4, 1273-1282	7.1	13
53	Internalization and toxicological mechanisms of uncoated and PVP-coated cerium oxide nanoparticles in the freshwater alga <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science: Nano</i> , 2019 , 6, 1959-1972	7.1	13
52	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
51	Fate and transformation products of amine-terminated PAMAM dendrimers under ozonation and irradiation. <i>Journal of Hazardous Materials</i> , 2014 , 266, 102-113	12.8	12
50	Electrospun Composite Membranes for Fouling and Biofouling Control. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14561-14570	3.9	12
49	Toxicological assessment of third generation (G3) poly (amidoamine) dendrimers using the <i>Allium cepa</i> test. <i>Science of the Total Environment</i> , 2016 , 563-564, 899-903	10.2	11
48	Mechanism of the toxic action of cationic G5 and G7 PAMAM dendrimers in the cyanobacterium <i>Anabaena</i> sp. PCC7120. <i>Environmental Science: Nano</i> , 2019 , 6, 863-878	7.1	11
47	Two novel cyanobacterial bioluminescent whole-cell bioreporters based on superoxide dismutases MnSod and FeSod to detect superoxide anion. <i>Chemosphere</i> , 2018 , 201, 772-779	8.4	10
46	Poly(vinyl chloride)-hyperbranched polyamidoamine ultrafiltration membranes with antifouling and antibiofouling properties. <i>Reactive and Functional Polymers</i> , 2020 , 154, 104669	4.6	9
45	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
44	Catalytic wet oxidation of phenol with homogeneous iron salts. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 1031-1035	3.5	9
43	Microplastics can act as vector of the biocide triclosan exerting damage to freshwater microalgae. <i>Chemosphere</i> , 2021 , 266, 129193	8.4	9
42	Antimicrobial organic/inorganic composite membranes including sepiolite-supported nanometals. <i>RSC Advances</i> , 2017 , 7, 2323-2332	3.7	8
41	Chemical and Ecotoxicological Assessment of Dendrimers in the Aquatic Environment. <i>Comprehensive Analytical Chemistry</i> , 2012 , 197-233	1.9	8
40	Microbial colonisation of transparent glass-like carbon films triggered by a reversible radiation-induced hydrophobic to hydrophilic transition. <i>RSC Advances</i> , 2016 , 6, 50278-50287	3.7	8
39	Morphological description of microplastic particles for environmental fate studies. <i>Marine Pollution Bulletin</i> , 2021 , 171, 112716	6.7	8

38	Physicochemical and biological interactions between cerium oxide nanoparticles and a 1,8-naphthalimide derivative. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 172, 61-69	6.7	7
37	Ozone-based reclamation of an STP effluent. <i>Water Science and Technology</i> , 2011 , 63, 2123-30	2.2	7
36	Decoloration of indene-floumarone resins by catalytic hydrogenation. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 53, 365-371	3.5	7
35	Effect of process parameters on the coprocessing of coal and heavy oils. <i>Fuel Processing Technology</i> , 1992 , 31, 209-220	7.2	7
34	A pilot study about microplastics and mesoplastics in an Antarctic glacier. <i>Cryosphere</i> , 2021 , 15, 2531-2539	3.5	7
33	Microbial colonizers of microplastics in an Arctic freshwater lake. <i>Science of the Total Environment</i> , 2021 , 795, 148640	10.2	7
32	Hypochlorite scavenging activity of cerium oxide nanoparticles. <i>RSC Advances</i> , 2016 , 6, 62911-62915	3.7	6
31	Polymeric ruthenium precursor as a photoactivated antimicrobial agent. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123788	12.8	6
30	Hyperbranched polymeric nanomaterials impair the freshwater crustacean <i>Daphnia magna</i> . <i>Environmental Pollution</i> , 2019 , 249, 581-588	9.3	5
29	Enzyme response of activated sludge to a mixture of emerging contaminants in continuous exposure. <i>PLoS ONE</i> , 2020 , 15, e0227267	3.7	5
28	Peroxisredoxin (2-cys-prx) and catalase (katA) cyanobacterial-based bioluminescent bioreporters to detect oxidative stress in the aquatic environment. <i>Chemosphere</i> , 2019 , 236, 124395	8.4	5
27	Estimation of the concentration of hydroaromatic compounds in a hydrogenated anthracene oil. <i>Fuel</i> , 1992 , 71, 761-765	7.1	5
26	Generation of nanoplastics during the photoageing of low-density polyethylene. <i>Environmental Pollution</i> , 2021 , 289, 117919	9.3	5
25	Polyvinylpyrrolidone and arsenic-induced changes in biological responses of model aquatic organisms exposed to iron-based nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	4
24	Conjugated polymer nanostructures displaying highly photoactivated antimicrobial and antibiofilm functionalities. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4390-4399	7.3	4
23	Negative food dilution and positive biofilm carrier effects of microplastic ingestion by <i>D. magna</i> cause tipping points at the population level. <i>Environmental Pollution</i> , 2021 , 118622	9.3	3
22	Micro and Nano-Plastics in the Environment: Research Priorities for the Near Future. <i>Reviews of Environmental Contamination and Toxicology</i> , 2021 , 257, 163-218	3.5	3
21	Characterization of microbial colonization and diversity in reverse osmosis membrane autopsy	131, 9-29	3

20	Understanding nanoplastic toxicity and their interaction with engineered cationic nanopolymers in microalgae by physiological and proteomic approaches. <i>Environmental Science: Nano</i> , 2021 , 8, 2277-2296	7.1	3
19	Modelling the Photodegradation of Marine Microplastics by Means of Infrared Spectrometry and Chemometric Techniques. <i>Microplastics</i> , 2022 , 1, 198-210		3
18	Hydrogen-transferring liquefaction of two different rank coals employing hydrogenated anthracene oil as a donor solvent. <i>Industrial & Engineering Chemistry Research</i> , 1992 , 31, 2407-2412	3.9	2
17	Viable Microorganisms on Fibers Collected within and beyond the Planetary Boundary Layer. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 819-825	11	2
16	High performance of electrosprayed graphene oxide/TiO ₂ /Ce-TiO ₂ photoanodes for photoelectrocatalytic inactivation of <i>S. aureus</i> . <i>Electrochimica Acta</i> , 2021 , 395, 139203	6.7	2
15	ZnO-functionalized fly-ash based zeolite for ciprofloxacin antibiotic degradation and pathogen inactivation. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107603	6.8	2
14	Use of Cyanobacterial Luminescent Bioreporters to Report on the Environmental Impact of Metallic Nanoparticles. <i>Sensors</i> , 2019 , 19,	3.8	1
13	Catalytic hydrogenation of aromatic hydrocarbons in a trickle bed reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 1998 , 72, 74-84	3.5	1
12	Comparison of oils and asphaltenes from extraction of bituminous coal and lignite with hydrogenated anthracene oil. <i>Fuel</i> , 1995 , 74, 1013-1017	7.1	1
11	Evolution of prokaryotic colonisation of greenhouse plastics discarded into the environment.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 232, 113213	7	1
10	Polystyrene nanoplastics and wastewater displayed antagonistic toxic effects due to the sorption of wastewater micropollutants.. <i>Science of the Total Environment</i> , 2022 , 819, 153063	10.2	1
9	Microplastics identification and quantification in the composted Organic Fraction of Municipal Solid Waste. <i>Science of the Total Environment</i> , 2021 , 813, 151902	10.2	1
8	Zirconium-based Metal-Organic Frameworks for highly efficient solar light-driven photoelectrocatalytic disinfection. <i>Separation and Purification Technology</i> , 2022 , 285, 120351	8.3	1
7	Chemically cross-linked poly(vinyl alcohol) electrospun fibrous mats as wound dressing materials. <i>Journal of Chemical Technology and Biotechnology</i> , 2022 , 97, 620-632	3.5	1
6	Poly(glycidyl methacrylate) macromolecular assemblies as biocompatible nanocarrier for the antimicrobial lysozyme. <i>International Journal of Pharmaceutics</i> , 2021 , 603, 120695	6.5	0
5	Genotoxic effects and transcriptional deregulation of genetic biomarkers in <i>Chironomus riparius</i> larvae exposed to hydroxyl- and amine-terminated generation 3 (G3) polyamidoamine (PAMAM) dendrimers. <i>Science of the Total Environment</i> , 2021 , 774, 145828	10.2	0
4	Ageing and fragmentation of marine microplastics.. <i>Science of the Total Environment</i> , 2022 , 827, 154438	10.2	0
3	Critical review on the use of photocatalysis and photoelectrocatalysis to create antimicrobial surfaces. <i>Current Opinion in Chemical Engineering</i> , 2021 , 34, 100762	5.4	0

- 2 Identification and toxicity towards aquatic primary producers of the smallest fractions released from hydrolytic degradation of polycaprolactone microplastics.. *Chemosphere*, **2022**, 134966 8.4 o
- 1 Hydrogen incorporation during the hydrogenation reaction of an anthracene oil. *The Chemical Engineering Journal*, **1992**, 48, 191-195