

Zacharias Frontistis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3050255/zacharias-frontistis-publications-by-citations.pdf>

Version: 2024-04-23

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.

115
papers

3,364
citations

36
h-index

52
g-index

127
ext. papers

4,094
ext. citations

7
avg, IF

5.93
L-index

#	Paper	IF	Citations
115	Degradation, mineralization and antibiotic inactivation of amoxicillin by UV-A/TiO ₂ photocatalysis. <i>Journal of Environmental Management</i> , 2012 , 98, 168-74	7.9	215
114	Sono-activated persulfate oxidation of bisphenol A: Kinetics, pathways and the controversial role of temperature. <i>Chemical Engineering Journal</i> , 2015 , 280, 623-633	14.7	142
113	Degradation of antibiotic sulfamethoxazole by biochar-activated persulfate: Factors affecting the activation and degradation processes. <i>Catalysis Today</i> , 2018 , 313, 128-133	5.3	97
112	Solar photocatalytic degradation of bisphenol A with CuO x /BiVO ₄ : Insights into the unexpectedly favorable effect of bicarbonates. <i>Chemical Engineering Journal</i> , 2017 , 318, 39-49	14.7	95
111	Erythromycin oxidation and ERY-resistant Escherichia coli inactivation in urban wastewater by sulfate radical-based oxidation process under UV-C irradiation. <i>Water Research</i> , 2015 , 85, 346-58	12.5	93
110	Graphene: A new activator of sodium persulfate for the advanced oxidation of parabens in water. <i>Water Research</i> , 2017 , 126, 111-121	12.5	89
109	Electrochemical enhancement of solar photocatalysis: degradation of endocrine disruptor bisphenol-A on Ti/TiO ₂ films. <i>Water Research</i> , 2011 , 45, 2996-3004	12.5	88
108	Kinetics of ethyl paraben degradation by simulated solar radiation in the presence of N-doped TiO ₂ catalysts. <i>Water Research</i> , 2015 , 81, 157-66	12.5	86
107	Activation of sodium persulfate by magnetic carbon xerogels (CX/CoFe) for the oxidation of bisphenol A: Process variables effects, matrix effects and reaction pathways. <i>Water Research</i> , 2017 , 124, 97-107	12.5	83
106	Solar photocatalytic degradation of sulfamethoxazole over tungsten [Modified TiO ₂ . <i>Chemical Engineering Journal</i> , 2017 , 318, 143-152	14.7	65
105	Photocatalytic (UV-A/TiO ₂) degradation of 17β-ethynylestradiol in environmental matrices: Experimental studies and artificial neural network modeling. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 240, 33-41	4.7	65
104	Solar photocatalytic abatement of sulfamethoxazole over Ag ₃ PO ₄ /WO ₃ composites. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 73-81	21.8	62
103	Photodegradation of ethyl paraben using simulated solar radiation and AgPO photocatalyst. <i>Journal of Hazardous Materials</i> , 2017 , 323, 478-488	12.8	56
102	Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO ₂ /ITO film anode and BDD cathode. <i>Catalysis Today</i> , 2013 , 209, 74-78	5.3	55
101	BDD anodic oxidation as tertiary wastewater treatment for the removal of emerging micro-pollutants, pathogens and organic matter. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 1233-1236	3.5	54
100	Magnetic carbon xerogels for the catalytic wet peroxide oxidation of sulfamethoxazole in environmentally relevant water matrices. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 170-186	21.8	53
99	Copper phosphide and persulfate salt: A novel catalytic system for the degradation of aqueous phase micro-contaminants. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 178-187	21.8	53

98	Fast photocatalytic degradation of bisphenol A by Ag ₃ PO ₄ /TiO ₂ composites under solar radiation. <i>Catalysis Today</i> , 2017 , 280, 99-107	5.3	52
97	Sonodegradation of 17 β -ethynylestradiol in environmentally relevant matrices: laboratory-scale kinetic studies. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 77-84	8.9	52
96	Environmental sustainability of light-driven processes for wastewater treatment applications. <i>Journal of Cleaner Production</i> , 2018 , 182, 8-15	10.3	51
95	Solar photocatalysis for the abatement of emerging micro-contaminants in wastewater: Synthesis, characterization and testing of various TiO ₂ samples. <i>Applied Catalysis B: Environmental</i> , 2012 , 117-118, 283-291	21.8	51
94	Electrochemical oxidation of ammonia (NH ₄ ⁺ /NH ₃) on thermally and electrochemically prepared IrO ₂ electrodes. <i>Electrochimica Acta</i> , 2011 , 56, 1361-1365	6.7	51
93	Photocatalytic degradation of bisphenol A over Rh/TiO ₂ suspensions in different water matrices. <i>Catalysis Today</i> , 2017 , 284, 59-66	5.3	50
92	Fast degradation of estrogen hormones in environmental matrices by photo-Fenton oxidation under simulated solar radiation. <i>Chemical Engineering Journal</i> , 2011 , 178, 175-182	14.7	50
91	Utilizing solar energy for the purification of olive mill wastewater using a pilot-scale photocatalytic reactor after coagulation-flocculation. <i>Water Research</i> , 2014 , 60, 28-40	12.5	49
90	Sonochemical degradation of ethyl paraben in environmental samples: Statistically important parameters determining kinetics, by-products and pathways. <i>Ultrasonics Sonochemistry</i> , 2016 , 31, 62-70	8.9	49
89	Correlating the properties of hydrogenated titania to reaction kinetics and mechanism for the photocatalytic degradation of bisphenol A under solar irradiation. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 65-76	21.8	48
88	Electrochemical oxidation of pesticide thiamethoxam on boron doped diamond anode: Role of operating parameters and matrix effect. <i>Chemical Engineering Research and Design</i> , 2018 , 116, 535-541	5.5	47
87	Degradation of antibiotic ampicillin on boron-doped diamond anode using the combined electrochemical oxidation - Sodium persulfate process. <i>Journal of Environmental Management</i> , 2018 , 223, 878-887	7.9	46
86	Synthesis and characterization of CoO/BiVO photocatalysts for the degradation of propyl paraben. <i>Journal of Hazardous Materials</i> , 2019 , 372, 52-60	12.8	45
85	Boron-doped diamond electrooxidation of ethyl paraben: The effect of electrolyte on by-products distribution and mechanisms. <i>Journal of Environmental Management</i> , 2017 , 195, 148-156	7.9	42
84	Oxidation of bisphenol A in water by heat-activated persulfate. <i>Journal of Environmental Management</i> , 2017 , 195, 125-132	7.9	41
83	UV and simulated solar photodegradation of 17 β -ethynylestradiol in secondary-treated wastewater by hydrogen peroxide or iron addition. <i>Catalysis Today</i> , 2015 , 252, 84-92	5.3	41
82	Solar light-induced degradation of bisphenol-A with TiO ₂ immobilized on Ti. <i>Catalysis Today</i> , 2011 , 161, 110-114	5.3	41
81	Wet air oxidation of table olive processing wastewater: determination of key operating parameters by factorial design. <i>Water Research</i> , 2008 , 42, 3591-600	12.5	38

80	Experimental and Modeling Studies of the Degradation of Estrogen Hormones in Aqueous TiO ₂ Suspensions under Simulated Solar Radiation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16552-16563	3.9	37
79	On the capacity of ozonation to remove antimicrobial compounds, resistant bacteria and toxicity from urban wastewater effluents. <i>Journal of Hazardous Materials</i> , 2017 , 323, 414-425	12.8	32
78	Activation of Persulfate by Biochars from Valorized Olive Stones for the Degradation of Sulfamethoxazole. <i>Catalysts</i> , 2019 , 9, 419	4	32
77	Destruction of propyl paraben by persulfate activated with UV-A light emitting diodes. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2992-2997	6.8	31
76	Electrochemical treatment of biologically pre-treated dairy wastewater using dimensionally stable anodes. <i>Journal of Environmental Management</i> , 2017 , 202, 217-224	7.9	31
75	Removal of Pharmaceuticals from Environmentally Relevant Matrices by Advanced Oxidation Processes (AOPs). <i>Comprehensive Analytical Chemistry</i> , 2013 , 345-407	1.9	31
74	Sonochemical oxidation of piroxicam drug: effect of key operating parameters and degradation pathways. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 28-34	3.5	30
73	Boron-doped diamond oxidation of amoxicillin pharmaceutical formulation: Statistical evaluation of operating parameters, reaction pathways and antibacterial activity. <i>Journal of Environmental Management</i> , 2017 , 195, 100-109	7.9	29
72	Photocatalytic and photoelectrocatalytic degradation of the drug omeprazole on nanocrystalline titania films in alkaline media: Effect of applied electrical bias on degradation and transformation products. <i>Journal of Hazardous Materials</i> , 2015 , 294, 57-63	12.8	29
71	Treatment of table olive washing water using trickling filters, constructed wetlands and electrooxidation. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 1085-1092	5.1	27
70	Photocatalytic degradation of 17 β -ethynylestradiol in environmental samples by ZnO under simulated solar radiation. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 1051-1058	3.5	25
69	Ultraviolet-activated persulfate oxidation of methyl orange: a comparison between artificial neural networks and factorial design for process modelling. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 528-35	4.2	24
68	Solar Photocatalytic Degradation of Bisphenol A on Immobilized ZnO or TiO ₂ . <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-9	2.1	24
67	Solar photocatalytic degradation of propyl paraben in Al-doped TiO ₂ suspensions. <i>Catalysis Today</i> , 2018 , 313, 148-154	5.3	23
66	Solar light-induced degradation of ethyl paraben with CuO x /BiVO ₄ : Statistical evaluation of operating factors and transformation by-products. <i>Catalysis Today</i> , 2017 , 280, 122-131	5.3	22
65	Valorization of steel slag towards a Fenton-like catalyst for the degradation of paraben by activated persulfate. <i>Chemical Engineering Journal</i> , 2019 , 360, 728-739	14.7	22
64	Immobilized Ag ₃ PO ₄ photocatalyst for micro-pollutants removal in a continuous flow annular photoreactor. <i>Catalysis Today</i> , 2019 , 328, 223-229	5.3	22
63	Degradation of antibiotic trimethoprim by the combined action of sunlight, TiO ₂ and persulfate: A pilot plant study. <i>Catalysis Today</i> , 2019 , 328, 216-222	5.3	21

62	Solar photocatalytic decomposition of ethyl paraben in zinc oxide suspensions. <i>Catalysis Today</i> , 2017 , 280, 139-148	5.3	20
61	Degradation of propyl paraben by activated persulfate using iron-containing magnetic carbon xerogels: investigation of water matrix and process synergy effects. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 34801-34810	5.1	20
60	Degradation of Sulfamethoxazole Using Iron-Doped Titania and Simulated Solar Radiation. <i>Catalysts</i> , 2019 , 9, 612	4	20
59	Degradation of pesticide thiamethoxam by heat activated and ultrasound activated persulfate: Effect of key operating parameters and the water matrix. <i>Chemical Engineering Research and Design</i> , 2020 , 134, 197-207	5.5	20
58	Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator. <i>Journal of Environmental Management</i> , 2020 , 271, 111022	7.9	18
57	A hybrid system comprising an aerobic biological process and electrochemical oxidation for the treatment of black table olive processing wastewaters. <i>International Biodeterioration and Biodegradation</i> , 2016 , 109, 104-112	4.8	18
56	Solar photocatalytic decomposition of estrogens over immobilized zinc oxide. <i>Catalysis Today</i> , 2013 , 209, 66-73	5.3	18
55	Electrocoagulation as a Promising Defluoridation Technology from Water: A Review of State of the Art of Removal Mechanisms and Performance Trends. <i>Water (Switzerland)</i> , 2021 , 13, 656	3	18
54	Persulfate activation by modified red mud for the oxidation of antibiotic sulfamethoxazole in water. <i>Journal of Environmental Management</i> , 2020 , 270, 110820	7.9	16
53	Degradation of the nonsteroidal anti-inflammatory drug piroxicam from environmental matrices with UV-activated persulfate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 378, 17-23	4.7	15
52	Degradation of methylparaben by sonocatalysis using a Co-Fe magnetic carbon xerogel. <i>Ultrasonics Sonochemistry</i> , 2020 , 64, 105045	8.9	15
51	Electrochemical behaviour of ammonia (NH ₄ ⁺ /NH ₃) on electrochemically grown anodic iridium oxide film (AIROF) electrode. <i>Electrochemistry Communications</i> , 2009 , 11, 1590-1592	5.1	15
50	Sulfamethoxazole degradation by the CuOx/persulfate system. <i>Catalysis Today</i> , 2021 , 361, 139-145	5.3	15
49	Photocatalytic performance of Ag ₂ O towards sulfamethoxazole degradation in environmental samples. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103177	6.8	14
48	Utilization of raw red mud as a source of iron activating the persulfate oxidation of paraben. <i>Chemical Engineering Research and Design</i> , 2018 , 119, 311-319	5.5	13
47	Degradation of ethyl paraben by heat-activated persulfate oxidation: statistical evaluation of operating factors and transformation pathways. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 1073-1084	5.1	13
46	Copper phosphide promoted BiVO ₄ photocatalysts for the degradation of sulfamethoxazole in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104340	6.8	13
45	Effect of sodium persulfate treatment on the physicochemical properties and catalytic activity of biochar prepared from spent malt rootlets. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105071	6.8	13

44	Carbocatalytic activation of persulfate for the removal of drug diclofenac from aqueous matrices. <i>Catalysis Today</i> , 2020 , 355, 937-944	5.3	13
43	Comparison of different TiO ₂ samples as photocatalyst for the degradation of a mixture of four commercial pesticides. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1259-1264	3.5	12
42	Sonochemical degradation of trimethoprim in water matrices: Effect of operating conditions, identification of transformation products and toxicity assessment. <i>Ultrasonics Sonochemistry</i> , 2020 , 67, 105139	8.9	12
41	Degradation of the Nonsteroidal Anti-Inflammatory Drug Piroxicam by Iron Activated Persulfate: The Role of Water Matrix and Ultrasound Synergy. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	12
40	Modelling of sonochemical processes in water treatment. <i>Water Science and Technology</i> , 2007 , 55, 47-52.2		11
39	Electrochemical oxidation of butyl paraben on boron doped diamond in environmental matrices and comparison with sulfate radical-AOP. <i>Journal of Environmental Management</i> , 2020 , 269, 110783	7.9	11
38	Electrochemical Degradation of Piroxicam on a Boron-Doped Diamond Anode: Investigation of Operating Parameters and Ultrasound Synergy. <i>ChemElectroChem</i> , 2019 , 6, 841-847	4.3	11
37	Heterogeneous activation of persulfate by lanthanum strontium cobaltite for sulfamethoxazole degradation. <i>Catalysis Today</i> , 2021 , 361, 130-138	5.3	11
36	Wastewater Based Epidemiology Perspective as a Faster Protocol for Detecting Coronavirus RNA in Human Populations: A Review with Specific Reference to SARS-CoV-2 Virus. <i>Pathogens</i> , 2021 , 10,	4.5	11
35	Removal of antibiotics in a parallel-plate thin-film-photocatalytic reactor: Process modeling and evolution of transformation by-products and toxicity. <i>Journal of Environmental Sciences</i> , 2017 , 60, 114-122 ⁴	6.4	10
34	Screening of heterogeneous catalysts for the activated persulfate oxidation of sulfamethoxazole in aqueous matrices. Does the matrix affect the selection of catalyst?. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 2425-2432	3.5	10
33	Photocatalytic Evaluation of Ag ₂ CO ₃ for Ethylparaben Degradation in Different Water Matrices. <i>Water (Switzerland)</i> , 2020 , 12, 1180	3	10
32	Sonocatalytic degradation of butylparaben in aqueous phase over Pd/C nanoparticles. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 11905-11919	5.1	10
31	Photoelectrocatalytic vs. Photocatalytic Degradation of Organic Water Born Pollutants. <i>Catalysts</i> , 2018 , 8, 455	4	10
30	Simultaneous removal of estrogens and pathogens from secondary treated wastewater by solar photocatalytic treatment. <i>Global Nest Journal</i> , 2014 , 16, 543-552	1.4	9
29	Removal of drug losartan in environmental aquatic matrices by heat-activated persulfate: Kinetics, transformation products and synergistic effects. <i>Chemosphere</i> , 2022 , 287, 131952	8.4	9
28	Degradation of antihypertensive drug valsartan in water matrices by heat and heat/ultrasound activated persulfate: Kinetics, synergy effect and transformation products. <i>Chemical Engineering Journal Advances</i> , 2020 , 4, 100062	3.6	8
27	Coupling Persulfate-Based AOPs: A Novel Approach for Piroxicam Degradation in Aqueous Matrices. <i>Water (Switzerland)</i> , 2020 , 12, 1530	3	8

26	The role of operating parameters and irradiation on the electrochemical degradation of tetracycline on boron doped diamond anode in environmentally relevant matrices. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 3648-3655	3.5	8
25	Oxidation of Sulfamethoxazole by Rice Husk Biochar-Activated Persulfate. <i>Catalysts</i> , 2021 , 11, 850	4	8
24	Treatment of real industrial-grade dye solutions and printing ink wastewater using a novel pilot-scale hydrodynamic cavitation reactor. <i>Journal of Environmental Management</i> , 2021 , 297, 113301	7.9	8
23	Solar light-induced photocatalytic degradation of methylparaben by g-C ₃ N ₄ in different water matrices. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2811-2821	3.5	7
22	Sonoelectrochemical Degradation of Propyl Paraben: An Examination of the Synergy in Different Water Matrices. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	6
21	Removal of cibacron black commercial dye with heat- or iron-activated persulfate: statistical evaluation of key operating parameters on decolorization and degradation by-products. <i>Desalination and Water Treatment</i> , 2016 , 57, 2616-2625		6
20	Ozonation of Landfill Leachates: Treatment Optimization by Factorial Design. <i>Journal of Advanced Oxidation Technologies</i> , 2008 , 11,		6
19	Impact of water matrix on the photocatalytic removal of pharmaceuticals by visible light active materials. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 28, 100445	7.9	6
18	Recent Trends in Pharmaceuticals Removal from Water Using Electrochemical Oxidation Processes. <i>Environments - MDPI</i> , 2021 , 8, 85	3.2	6
17	Lanthanum Nickel Oxide: An Effective Heterogeneous Activator of Sodium Persulfate for Antibiotics Elimination. <i>Catalysts</i> , 2020 , 10, 1373	4	4
16	Advanced oxidation processes for the treatment of winery wastewater: a review and future perspectives. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2436-2450	3.5	4
15	Use of Electrocoagulation for Treatment of Pharmaceutical Compounds in Water/Wastewater: A Review Exploring Opportunities and Challenges. <i>Water (Switzerland)</i> , 2021 , 13, 2105	3	4
14	Production of hydrogen peroxide with a photocatalytic fuel cell and its application to UV/H ₂ O ₂ degradation of dyes. <i>Chemical Engineering Journal Advances</i> , 2021 , 6, 100109	3.6	3
13	Photocatalytic Degradation of Valsartan by MoS ₂ /BiOCl Heterojunctions. <i>Catalysts</i> , 2021 , 11, 650	4	3
12	Porous CoxNi1-xTiO ₃ nanorods for solar photocatalytic degradation of ethyl paraben. <i>Journal of Materiomics</i> , 2020 , 6, 788-799	6.7	2
11	Pilot-scale hybrid system combining hydrodynamic cavitation and sedimentation for the decolorization of industrial inks and printing ink wastewater. <i>Journal of Environmental Management</i> , 2022 , 302, 114108	7.9	2
10	Advanced oxidation processes for wastewater treatment 2017 , 131-143		2
9	On the Performance of a Sustainable Rice Husk Biochar for the Activation of Persulfate and the Degradation of Antibiotics. <i>Catalysts</i> , 2021 , 11, 1303	4	2

8	Destruction of valsartan using electrochemical and electrochemical/persulfate process. Kinetics, identification of degradation pathway and application in aqueous matrices. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106265	6.8	2
7	Solar light induced photocatalytic removal of sulfamethoxazole from water and wastewater using BiOCl photocatalyst. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021 , 56, 963-972	2.3	1
6	Treatment of printing ink wastewater using a continuous flow electrocoagulation reactor.. <i>Journal of Environmental Management</i> , 2022 , 314, 115033	7.9	1
5	Using Sawdust Derived Biochar as a Novel 3D Particle Electrode for Micropollutants Degradation. <i>Water (Switzerland)</i> , 2022 , 14, 357	3	0
4	Electrochemical Recovery to Overcome Direct Osmosis Concentrate-Bearing Lead: Optimization of Treatment Process via RSM-CCD. <i>Water (Switzerland)</i> , 2021 , 13, 3136	3	0
3	Design, Energy, Environmental and Cost Analysis of an Integrated Collector Storage Solar Water Heater Based on Multi-Criteria Methodology. <i>Energies</i> , 2022 , 15, 1673	3.1	0
2	Sorption of two common antihypertensive drugs onto polystyrene microplastics in water matrices.. <i>Science of the Total Environment</i> , 2022 , 837, 155786	10.2	0
1	Printing ink wastewater treatment using combined hydrodynamic cavitation and pH fixation. <i>Journal of Environmental Management</i> , 2022 , 317, 115404	7.9	0