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Combination of Advanced Oxidation Processes and biological treatments for wastewater decontamination--a review

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1404	Remediation of agro-food industry effluents by biotreatment combined with supported TiO2/H2O2 solar photocatalysis. <b>2015</b> , 273, 205-213	42
1403	Pharmaceuticals and iodinated contrast media in a hospital wastewater: A case study to analyse their presence and characterise their environmental risk and hazard. <b>2015</b> , 140, 225-41	116
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1400	An overview on limitations of TiO2-based particles for photocatalytic degradation of organic pollutants and the corresponding countermeasures. <b>2015</b> , 79, 128-46	705
1399	Heterogeneous electro-Fenton oxidation of catechol catalyzed by nano-Fe3O4: kinetics with the Fermi's equation. <b>2015</b> , 56, 138-147	44
1398	Oxidative degradation of levofloxacin in aqueous solution by S2O82â/JFe2+, S2O82â/JH2O2 and S2O82â/JOHâ/processes: A comparative study. <b>2015</b> , 3, 1207-1214	23
1397	Development of photocatalytic coupled zincâlfon oxide nanoparticles via solution combustion for bisphenol-A removal. <b>2015</b> , 102, 346-352	17
1396	Trends in the Intensification of the Fenton Process for Wastewater Treatment: An Overview. <b>2015</b> , 45, 2611-2692	148
1395	Combined treatment of swine wastewater by electron beam irradiation and ion-exchange biological reactor system. <b>2015</b> , 146, 42-49	35
1394	Towards the use of metalâBrganic frameworks for water reuse: a review of the recent advances in the field of organic pollutants removal and degradation and the next steps in the field. <b>2015</b> , 3, 22484-22506	424
1393	Novel three-dimensional macroporous PbO2 foam electrode for efficient electrocatalytic decolorization of dyes. <b>2015</b> , 5, 89363-89367	12
1392	Variability in ecosystem structure and functioning in a low order stream: Implications of land use and season. <i>Science of the Total Environment</i> , <b>2015</b> , 538, 341-9	15
1391	Enhancement by the artificial controlled culture for the algal treatment of antibiotic ceftazidime: a three-step response performance and high-removal efficiency. <b>2015</b> , 5, 72755-72763	4
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1389	AHâdontrol for optimizing the advanced oxidation processesâdase of a catalytic ozonation reactor. <b>2015</b> , 44, 1-9	3
1388	Sustainable Treatment of Antibiotic Wastewater Using Combined Process of Microelectrolysis and Struvite Crystallization. <b>2015</b> , 226, 1	7
1387	Treatment of fertilizer industry wastewater by catalytic peroxidation process using copper-loaded SBA-15. <b>2015</b> , 50, 1468-78	10

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1385	Use of advance oxidation process to improve the biodegradability of olive oil mill effluents. <b>2015</b> , 98, 319-324	35
1384	Hybrid of Fenton and sequencing batch reactor for petroleum refinery wastewater treatment. <b>2015</b> , 25, 186-191	40
1383	Remediation of DDTr contaminated soil by the combination of solvent extraction and catalytic hydrodechlorination. <b>2015</b> , 5, 42597-42602	7
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1381	Enhanced Biological Wastewater Treatment to Produce Effluents Suitable for Reuse. <b>2015</b> , 79-105	2
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1379	High salinity effect on bioremediation of pretreated pesticide lixiviates from greenhouses. <b>2015</b> , 36, 3221-31	1
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1376	Potential of multisyringe chromatography for the on-line monitoring of the photocatalytic degradation of antituberculosis drugs in aqueous solution. <b>2015</b> , 121, 68-75	15
1375	Application of high intensity UVC-LED for the removal of acetamiprid with the photo-Fenton process. <b>2015</b> , 264, 690-696	48
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1372	Application of molecularly imprinted polymers in wastewater treatment: a review. <b>2015</b> , 22, 963-77	175
1371	Organic pollutants removal in wastewater by heterogeneous photocatalytic ozonation. <b>2015</b> , 121, 1-17	214
1370	Evaluation of water matrix effects, experimental parameters, and the degradation pathway during the TiO2 photocatalytical treatment of the antibiotic dicloxacillin. <b>2015</b> , 50, 40-8	28
1369	Water treatment efficacy of various metal oxide semiconductors for photocatalytic ozonation under UV and visible light irradiation. <b>2015</b> , 264, 221-229	87

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1367	R&D priorities in the field of sustainable remediation and purification of agro-industrial and municipal wastewater. <b>2015</b> , 32, 128-32	24
1366	Coupling between high-frequency ultrasound and solar photo-Fenton at pilot scale for the treatment of organic contaminants: an initial approach. <b>2015</b> , 22, 527-34	30
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1364	Deactivation of a Pd/AC catalyst in the hydrodechlorination of chlorinated herbicides. <b>2015</b> , 241, 86-91	28
1363	Review on the main advances in photo-Fenton oxidation system for recalcitrant wastewaters. <b>2015</b> , 21, 53-69	312
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1359	An overview on the advanced oxidation processes applied for the treatment of water pollutants defined in the recently launched Directive 2013/39/EU. <b>2015</b> , 75, 33-51	597
1358	Kinetics studies of catalytic ozonation of distillery effluent. <b>2015</b> , 54, 3470-3476	4
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1336	Microwave synthesis of pure and doped cerium (IV) oxide (CeO) nanoparticles for methylene blue degradation. <b>2016</b> , 74, 2325-2336	25
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1313	Formic acid enhanced effective degradation of methyl orange dye in aqueous solutions under UV-Vis irradiation. <b>2016</b> , 101, 103-113	55
1312	Mineralization of 2-chlorophenol by sequential electrochemical reductive dechlorination and biological processes. <b>2016</b> , 314, 181-187	44
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1284	Treatment of raw and ozonated oil sands process-affected water under decoupled denitrifying anoxic and nitrifying aerobic conditions: a comparative study. <b>2016</b> , 27, 247-264		16
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1258	Electrochemical oxidation of guaiacol to increase its biodegradability or just remove COD in terms of anodes and electrolytes. <b>2016</b> , 6, 4858-4866		15
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1251 1250	Polycyclic aromatic hydrocarbons (PAHs) removal by sorption: A review. <b>2016</b> , 148, 336-53  Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 209-224	10.2	258 76
	Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 209-224  Modelling energy efficiency of an integrated anaerobic digestion and photodegradation of	10.2	
1250	Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 209-224  Modelling energy efficiency of an integrated anaerobic digestion and photodegradation of	10.2	76
1250 1249	Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 209-224  Modelling energy efficiency of an integrated anaerobic digestion and photodegradation of distillery effluent using response surface methodology. <b>2016</b> , 37, 2435-46  Feed-back action of nitrite in the oxidation of nitrophenols by bicarbonate-activated peroxide	10.2	76 6
1250 1249 1248	Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 209-224  Modelling energy efficiency of an integrated anaerobic digestion and photodegradation of distillery effluent using response surface methodology. <b>2016</b> , 37, 2435-46  Feed-back action of nitrite in the oxidation of nitrophenols by bicarbonate-activated peroxide system. <b>2016</b> , 516, 90-99  Detoxification of synthetic and real groundwater contaminated with gasoline and diesel using Fenton, photo-Fenton, and biofilters. <b>2016</b> , 57, 23760-23769	10.2	76 6
1250 1249 1248	Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 209-224  Modelling energy efficiency of an integrated anaerobic digestion and photodegradation of distillery effluent using response surface methodology. <b>2016</b> , 37, 2435-46  Feed-back action of nitrite in the oxidation of nitrophenols by bicarbonate-activated peroxide system. <b>2016</b> , 516, 90-99  Detoxification of synthetic and real groundwater contaminated with gasoline and diesel using Fenton, photo-Fenton, and biofilters. <b>2016</b> , 57, 23760-23769  Hazardous waste landfill leachate treatment by combined chemical and biological techniques. <b>2016</b>	10.2	76 6 6
1250 1249 1248 1247	Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 209-224  Modelling energy efficiency of an integrated anaerobic digestion and photodegradation of distillery effluent using response surface methodology. <b>2016</b> , 37, 2435-46  Feed-back action of nitrite in the oxidation of nitrophenols by bicarbonate-activated peroxide system. <b>2016</b> , 516, 90-99  Detoxification of synthetic and real groundwater contaminated with gasoline and diesel using Fenton, photo-Fenton, and biofilters. <b>2016</b> , 57, 23760-23769  Hazardous waste landfill leachate treatment by combined chemical and biological techniques. <b>2016</b> , 57, 13236-13245  The fate of H2O2 during managed aquifer recharge: A residual from advanced oxidation processes for drinking water production. <b>2016</b> , 148, 263-9	10.2	76 6 6 5

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702	Cost effective sludge reduction using synergetic effect of dark fenton and disperser treatment. <b>2019</b> , 207, 261-270	14
701	The role of cobalt and copper nanoparticles on performance of magnetite-rich waste material in Fenton reaction. <b>2019</b> , 16, 373-382	6
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699	Removal of organic matter and ammoniacal nitrogen from landfill leachate using the UV/HO photochemical process. <b>2019</b> , 40, 793-806	5
698	Cold incineration of 1,2-dichlorobenzene in aqueous solution by electrochemical advanced oxidation using DSA/Carbon felt, Pt/Carbon felt and BDD/Carbon felt cells. <b>2019</b> , 208, 184-193	35
697	Kinetics and efficiency of ozone for treatment of landfill leachate including the effect of previous microbiological treatment. <b>2019</b> , 26, 4474-4487	6
696	Toxicological study of the degradation products of antineoplastic agent etoposide in commercial formulation treated by heterogeneous photocatalysis using SrSnO. <b>2019</b> , 26, 4224-4233	9
695	Reclamation of grey water for non-potable purposes using pilot-scale solar photocatalytic tubular reactors. <b>2019</b> , 40, 3190-3199	6
694	Influence of various operating conditions on wastewater treatment in an AS-biofilm reactor and post-treatment using TiO-based solar/UV photocatalysis. <b>2019</b> , 40, 1271-1288	
693	Organic micropollutants in sewage sludge: influence of thermal and ultrasound hydrolysis processes prior to anaerobic stabilization. <b>2020</b> , 41, 1358-1365	15
692	Enhancement of ciprofloxacin degradation in aqueous system by heterogeneous catalytic ozonation. <b>2020</b> , 27, 1246-1255	10
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690	Thiamethoxam removal by Fenton and biological oxidation. <b>2020</b> , 95, 913-921	6
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688	Hybrid Treatment Strategies Based on Hydrodynamic Cavitation, Advanced Oxidation Processes, and Aerobic Oxidation for Efficient Removal of Naproxen. <b>2020</b> , 59, 4058-4070	21
687	Treatment of wastewater from petroleum industry: current practices and perspectives. <b>2020</b> , 27, 27172-2718	<b>30</b> 85
686	Techno-economic evaluation of anatase and p25 TiO2 for treatment basic yellow 28 dye solution through heterogeneous photocatalysis. <b>2020</b> , 22, 231-249	5
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684	A hybrid process for 2,4-dichlorophenoxy acetic acid herbicidal treatment and its microbial identification by MALDI-TOF mass spectrometry. <b>2020</b> , 41, 764-776	1
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681	Advanced evaluation of landfill leachate treatments by low and high-resolution mass spectrometry focusing on microcontaminant removal. <b>2020</b> , 384, 121372	11
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162	Integral Valorization of Two-Phase Olive Mill Solid Waste (OMSW) and Related Washing Waters by Anaerobic Co-digestion of OMSW and the Microalga Cultivated in These Effluents <b>2022</b> ,		0
161	Micro-meso structure NaP zeolite @TiO nanocomposite: eco-friendly photocatalyst for simultaneous removal COD and degradation of methylene blue under solar irradiation <b>2022</b> , 1		O
160	Anlise qualitativa do biogli e lixiviado em aterro sanitilio brasileiro. <b>2022</b> , 70, 127-141		
159	Clay, Zeolite and Oxide Minerals: Natural Catalytic Materials for the Ozonation of Organic Pollutants <b>2022</b> , 27,		Ο
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157	A Review on Modification Methods of Adsorbents for Naphthalene in Environment. <b>2022</b> , 12, 398		
156	Biodegradation of sulfoxaflor by Pseudomonas stutzeri CGMCC 22915 and characterization of the nitrile hydratase involved. <b>2022</b> , 170, 105403		0
155	A review on advances in removal of endocrine disrupting compounds from aquatic matrices: Future perspectives on utilization of agri-waste based adsorbents <i>Science of the Total Environment</i> , <b>2022</b> , 826, 154129	10.2	2
154	Emerging pharma residue contaminants: Occurrence, monitoring, risk and fate assessment - A challenge to water resource management <i>Science of the Total Environment</i> , <b>2022</b> , 153897	10.2	1
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130	A review on recent advances in the treatment of dye-polluted wastewater. 2022,	8
129	Modelling of the photo-Fenton process with flexible hydrogen peroxide dosage: Sensitivity analysis and experimental validation <i>Science of the Total Environment</i> , <b>2022</b> , 155941	10.2 0
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121	A Review of Pyrene Bioremediation Using Mycobacterium Strains in a Different Matrix. <b>2022</b> , 8, 260	Ο
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113	Iron-Modified Titanate Nanorods for Oxidation of Aqueous Ammonia Using Combined Treatment with Ozone and Solar Light Irradiation. <b>2022</b> , 12, 666	2
112	Bi2O3 nanosheets: An efficient material for sunlight-driven photocatalytic degradation of Rhodamine B. <b>2022</b> ,	0
111	Eco-Efficient Approach for Wastewater Treatment and Agricultural Valorization: Fertigation Effect on Soil and Plant.	
110	Advanced oxidation process UV-H2O2 combined with biological treatment for the removal and detoxification of phenol. <b>2022</b> , 48, 102923	1
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107	Reclamation of aqueous waste solutions polluted with pharmaceutical and pesticide residues by biological-photocatalytic (solar) coupling in situ for agricultural reuse. <b>2022</b> , 448, 137616	Ο
106	A Historical Approach for Integration of Cavitation Technology with Conventional Wastewater Treatment Processes. <b>2022</b> , 27-56	
105	Photodegradation of Fipronil by Zn-AlPO4 Materials Synthesized by Non-Hydrolytic Solâ©el Method. <b>2022</b> , 6, 55	
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88	Advanced Oxidation Processes Based Emerging Technologies for Dye Wastewater Treatment. <b>2022</b> , 77, 181-196	
87	Endocrine disrupting chemicals in the environment: Environmental sources, biological effects, remediation techniques, and perspective. <b>2022</b> , 310, 119918	1
86	Valorisation of residual iron dust as Fenton catalyst for pulp and paper wastewater treatment. <b>2022</b> , 310, 119850	
85	Effect of porogen agent on bio-based membranes filtration performances: Experimental and theoritical study. <b>2022</b> , 1269, 133863	
84	Graphene/Inorganic Nanocomposites: Evolving Photocatalysts for Solar Energy Conversion for Environmental Remediation. <b>2022</b> , 101544	2
83	Fenton Process for Treating Acrylic Manufacturing Wastewater: Parameter Optimization, Performance Evaluation, Degradation Mechanism. <b>2022</b> , 14, 2913	O
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79	Ex Situ Synthesis and Characterizations of MoS2/WO3 Heterostructures for Efficient Photocatalytic Degradation of RhB. <b>2022</b> , 12, 2974	2
78	Preparation, Characterization, and Photocatalytic Performance of Ag/BiOBr0.85I0.15 Nanocomposites. <b>2022</b> , 15, 6022	O
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75	Water treatment using stimuli-responsive polymers. <b>2022</b> , 13, 5940-5964	1
74	Identifying influential priority of factors governing the acute biological toxicity of two kinds of industrial wastewaters.	O
73	Effects of solid retention time and exposure mode to electric current on Remazol Brilliant Violet removal in an electro-membrane bioreactor.	O

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71	Recent Developments and Emerging Trends in Paint Industry Wastewater Treatment Methods. <b>2022</b> , 12, 10678	3
70	Chemical and biological combined treatment for the sugarcane vinasse: Selection of parameters and performance studies.	О
69	Impact of gradually-achieved high phenol loads on the nitrification and cod removal performance of an mbbr fed with synthetic wastewater. 1-43	Ο
68	State of microalgae-based swine manure digestate treatment: An overview. <b>2022</b> , 8, e11256	0
67	Nanostructured Iron Oxide Hybrid Composites as Heterogeneous Fenton-Like Catalyst for Remediation of Persistent Organic Pollutants. <b>2022</b> , 37-71	O
66	Gas-liquid flow pattern identification and bubble characteristics analysis in a static mixer based HiPOxTM reactor. <b>2022</b> , 118269	1
65	Prospects for humic acids treatment and recovery in wastewater: A review. <b>2022</b> , 137193	2
64	Heterogeneous Fenton-like degradation of organic pollutants in petroleum refinery wastewater by copper-type layered double hydroxides. <b>2022</b> , 50, 103305	О
63	Pharmaceutical contaminants: Ecotoxicological aspects and recent advances in oxidation technologies for their removal in aqueous matrices. <b>2022</b> , 10, 108932	O
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61	Study on the characteristics of zeolite-promoted thermal decomposition of H2O2 for efficient NO oxidation.	O
60	Prospects of biosynthesized nanoparticles in treating pharmaceutical wastewater in relation to human health. <b>2023</b> , 75-120	О
59	Granulated biomass fly ash coupled with fenton process for pulp and paper wastewater treatment. <b>2023</b> , 317, 120777	Ο
58	Integration of physical and advanced oxidation processes for treatment and reuse of textile dye-bath effluents with minimum area footprint. <b>2023</b> , 383, 135366	О
57	Two Cu(i) coordination polymers based on a new benzimidazolyl-tetrazolyl heterotopic ligand for visible-light-driven photocatalytic dye degradation.	1
56	Photocatalytic degradation of cefixime using CuO-NiO nanocomposite photocatalyst. <b>2023</b> , 148, 110312	1
55	Removal of Persistent Acid Pharmaceuticals by a Biological-Photocatalytic Sequential Process: Clofibric Acid, Diclofenac, and Indomethacin. <b>2022</b> , 12, 1488	O

54	Insights into the practicability of electrochemical enhanced heterogeneous activation of peroxymonosulfate for the treatment of liquid waste during penicillin g production. <b>2022</b> , 140590	0
53	A Review on Predictive Models Designed From Artificial Intelligence Techniques in the Wastewater Treatment Process. <b>2022</b> , 242-264	O
52	Comparison between Conventional Treatment Processes and Advanced Oxidation Processes in Treating Slaughterhouse Wastewater: A Review. <b>2022</b> , 14, 3778	1
51	Combination of ANNs and heuristic algorithms in modelling and optimizing of Fenton processes for industrial wastewater treatment.	O
50	More than One Century of History for Photocatalysis, from Past, Present and Future Perspectives. <b>2022</b> , 12, 1572	0
49	A cationic nanotubular metal-organic framework for the removal of Cr2O72âland Iodine. 2022, 100005	O
48	Generation, toxicity, and reduction of chlorinated byproducts: Overcome bottlenecks of electrochemical advanced oxidation technology to treat high chloride wastewater. <b>2022</b> , 119531	1
47	Role of Various Physicochemical Factors in Enhancing Microbial Potential for Bioremediation of Synthetic Dyes.	O
46	Homogeneous and Heterogeneous Catalytic Ozonation of Textile Wastewater: Application and Mechanism. <b>2023</b> , 13, 6	0
45	Construction of a facile separation and recycle photocatalyst: g-C3N4/diatomite-based porous ceramic composite. <b>2022</b> ,	O
44	Hotspots and Trends of Layered Double Hydroxide-based Adsorbents for Polluted Water Treatment: Insights from Bibliometric Analysis.	0
43	All-green Cellulose acetate/corn-cob Composite Membrane Filter with Combative Dye and Heavy Metal Adsorption Property.	O
42	Water Pollution and Advanced Water Treatment Technologies. 2022, 2184-2200	0
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39	Strategies based on the use of microorganisms for the elimination of pollutants with endocrine-disrupting activity in the environment. <b>2023</b> , 11, 109268	O
38	Synthesis and characterization of PCN-222 metal organic framework and its application for removing perfluorooctane sulfonate from water. <b>2023</b> , 636, 459-469	O
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36	Photocatalytic applications of carbon quantum dots for wastewater treatment. 2023, 263-294	О
35	Enhancement of Wastewater Treatment Using Mist and Photocatalyst.	O
34	Microbial degradation of endocrine disruptors from industrial wastewater: Removal efficiency and metabolic mechanism. <b>2023</b> , 179-194	0
33	Bioremediation of androgenic and mutagenic pollutants from industrial wastewater. <b>2023</b> , 127-138	O
32	Photocatalytic Degradation of Psychiatric Pharmaceuticals in Hospital WWTP Secondary Effluents Using g-C3N4 and g-C3N4/MoS2 Catalysts in Laboratory-Scale Pilot. <b>2023</b> , 13, 252	1
31	Investigation of Advanced Oxidation Process in the Presence of TiO2 Semiconductor as Photocatalyst: Property, Principle, Kinetic Analysis, and Photocatalytic Activity. <b>2023</b> , 13, 232	2
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28	Sustainable nanocomposite porous absorbent and membrane sieves: Definition, classification, history, properties, synthesis, applications, and future prospects. <b>2023</b> , 11, 109367	0
27	Treatment of petroleum refinery wastewater by electrofenton process using a low cost porous graphite air-diffusion cathode with a novel design. <b>2023</b> , 193, 207-221	O
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25	Critical review with science mapping on the latest pre-treatment technologies of landfill leachate. <b>2023</b> , 336, 117727	O
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23	Improved catalytic and bactericidal behavior with in silico molecular docking analysis of barium/chitosan doped tungstate oxide nanoplates. <b>2023</b> , 38, 102835	O
22	Advanced oxidation processes for removal of monocyclic aromatic hydrocarbon from water: Effects of O3/H2O2 and UV/H2O2 treatment on product formation and biological post-treatment. <b>2023</b> , 450, 131066	О
21	A novel insight into energy conservation and efficiency enhancement in wastewater treatment process: Low-frequency mechanical vibration induced. <b>2023</b> , 52, 103492	O
20	Nanoplexes of ZnS quantum dot-poly-l-lysine/iron oxide nanoparticle-carboxymethylcellulose for photocatalytic degradation of dyes and antibacterial activity in wastewater treatment. <b>2023</b> , 231, 123363	О
19	Novel Pilot-Scale Photocatalytic Nanofiltration Reactor for Agricultural Wastewater Treatment. <b>2023</b> , 13, 202	1

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17	Selected Advanced Oxidation Processes for Wastewater Remediation. 2023, 151-174	O
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15	Catalysts and Photoreactors for Photocatalytic Solar Hydrogen Production: Fundamentals and Recent Developments at Pilot Scale. <b>2023</b> , 275-303	O
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9	Synthesis and application of carbon-based nanomaterials for bioelectrochemical systems. <b>2023</b> , 327-356	O
8	Effects of solid retention time and exposure mode to electric current on Remazol Brilliant Violet removal in an electro-membrane bioreactor.	0
7	A general review on the application of adsorption and oxidation combined processes on methyl tert-butyl ether removal.	Ο
6	Study of an eco-efficient method for wastewater treatment and safe agricultural reuse: Effect of influent splitting rates on effluent quality parameters.	Ο
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4	Catalytic ozonation of N-methyldiethanolamine over mixed oxides derived from Mg/Fe-LDH.	О
3	Chemical and biological combined treatment for sugarcane vinasse: selection of parameters and performance studies.	Ο
2	Properties of polyphenols and polyphenol-containing wastewaters and their treatment by Fenton/Fenton-like reactions. <b>2023</b> , 123905	0
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