

Rui C Martins

List of Publications by Year in descending order

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126
papers

3,481
citations

182225

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198040

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127
docs citations

127
times ranked

3825
citing authors

#	ARTICLE	IF	CITATIONS
1	Immobilization of TiO ₂ onto a polymeric support for photocatalytic oxidation of a paraben's mixture. <i>Journal of Water Process Engineering</i> , 2022, 46, 102458.	2.6	6
2	Solar energy for liquid wastewater treatment with novel TiO ₂ supported catalysts. <i>Energy Reports</i> , 2022, 8, 489-494.	2.5	6
3	A Comparison of Biosolids Production and System Efficiency between Activated Sludge, Moving Bed Biofilm Reactor, and Sequencing Batch Moving Bed Biofilm Reactor in the Dairy Wastewater Treatment. <i>Sustainability</i> , 2022, 14, 2702.	1.6	9
4	Ion Exchange to Capture Iron after Real Effluent Treatment by Fenton's Process. <i>Water (Switzerland)</i> , 2022, 14, 706.	1.2	4
5	An Overview of Polymer-Supported Catalysts for Wastewater Treatment through Light-Driven Processes. <i>Water (Switzerland)</i> , 2022, 14, 825.	1.2	8
6	Evaluation of the Activation Procedure on Oxone Efficiency for Synthetic Olive Mill Wastewater Treatment. <i>Catalysts</i> , 2022, 12, 291.	1.6	6
7	Ozone Kinetic Studies Assessment for the PPCPs Abatement: Mixtures Relevance. <i>ChemEngineering</i> , 2022, 6, 20.	1.0	4
8	Sulfate radical based advanced oxidation processes for agro-industrial effluents treatment: A comparative review with Fenton's peroxidation. <i>Science of the Total Environment</i> , 2022, 832, 155029.	3.9	35
9	Nanostructured photocatalysts for the abatement of contaminants by photocatalysis and photocatalytic ozonation: An overview. <i>Science of the Total Environment</i> , 2022, 837, 155776.	3.9	28
10	Ecotoxicological Consequences of the Abatement of Contaminants of Emerging Concern by Ozonation "Does Mixture Complexity Matter?". <i>Water (Switzerland)</i> , 2022, 14, 1801.	1.2	2
11	Evaluation of Nickel Neurotoxicity and High Sorption through a Hybrid Yeast / Silsesquioxane Material. <i>Silicon</i> , 2021, 13, 259-265.	1.8	0
12	Scale-up impact over solar photocatalytic ozonation with benchmark-P25 and N-TiO ₂ for insecticides abatement in water. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104915.	3.3	12
13	Olive oil extraction industry wastewater treatment by coagulation and Fenton's process. <i>Journal of Water Process Engineering</i> , 2021, 39, 101818.	2.6	28
14	Biocompounds recovery from olive mill wastewater by liquid-liquid extraction and integration with Fenton's process for water reuse. <i>Environmental Science and Pollution Research</i> , 2021, 28, 29521-29534.	2.7	6
15	Paraben Compounds "Part I: An Overview of Their Characteristics, Detection, and Impacts. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2307.	1.3	52
16	Paraben Compounds "Part II: An Overview of Advanced Oxidation Processes for Their Degradation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3556.	1.3	8
17	Swine wastewater treatment by Fenton's process and integrated methodologies involving coagulation and biofiltration. <i>Journal of Cleaner Production</i> , 2021, 293, 126105.	4.6	18
18	Editorial Catalysts: Special Issue on Recent Advances in TiO ₂ Photocatalysts. <i>Catalysts</i> , 2021, 11, 790.	1.6	3

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19	Advanced oxidation processes perspective regarding swine wastewater treatment. <i>Science of the Total Environment</i> , 2021, 776, 145958.	3.9	52
20	TiO ₂ nanotube catalysts for parabens mixture degradation by photocatalysis and ozone-based technologies. <i>Chemical Engineering Research and Design</i> , 2021, 152, 601-613.	2.7	25
21	Synthesis of Catechol Derived Rosamine Dyes and Their Reactivity toward Biogenic Amines. <i>Molecules</i> , 2021, 26, 5082.	1.7	4
22	Coagulation and biofiltration by <i>Corbicula fluminea</i> for COD and toxicity reduction of swine wastewater. <i>Journal of Water Process Engineering</i> , 2021, 42, 102145.	2.6	7
23	Bioenergy Production through Mono and Co-Digestion of Tomato Residues. <i>Energies</i> , 2021, 14, 5563.	1.6	6
24	Supported TiO ₂ in Ceramic Materials for the Photocatalytic Degradation of Contaminants of Emerging Concern in Liquid Effluents: A Review. <i>Molecules</i> , 2021, 26, 5363.	1.7	19
25	Photocatalytic oxidation of pharmaceutical contaminants of emerging concern using sunlight and visible radiation: Mechanism and ecotoxicological evaluation. <i>Journal of Water Process Engineering</i> , 2021, 43, 102204.	2.6	6
26	Opportunities and Barriers for Valorizing Waste Incineration Bottom Ash: Iberian Countries as a Case Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9690.	1.3	11
27	Persulfate Process Activated by Homogeneous and Heterogeneous Catalysts for Synthetic Olive Mill Wastewater Treatment. <i>Water (Switzerland)</i> , 2021, 13, 3010.	1.2	12
28	Iron-based catalysts under solar and visible radiation for contaminants of emerging concern removal. <i>Energy Reports</i> , 2020, 6, 711-716.	2.5	5
29	Advanced oxidation processes for recalcitrant compounds removal comparison with biofiltration by <i>Corbicula fluminea</i> . <i>Energy Reports</i> , 2020, 6, 666-671.	2.5	11
30	Editorial: Advanced Processes for Wastewater Treatment and Water Reuse. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	1
31	Removal of a mixture of pharmaceuticals sulfamethoxazole and diclofenac from water streams by a polyamide nanofiltration membrane. <i>Water Science and Technology</i> , 2020, 81, 732-743.	1.2	8
32	N-doped titanium dioxide for mixture of parabens degradation based on ozone action and toxicity evaluation: Precursor of nitrogen and titanium effect. <i>Chemical Engineering Research and Design</i> , 2020, 138, 80-89.	2.7	16
33	Electrochemical oxidation of paraben compounds and the effects of byproducts on neuronal activity. <i>Energy Reports</i> , 2020, 6, 903-908.	2.5	10
34	Unexpected effect of ozone on the paraben's mixture degradation using TiO ₂ supported nanotubes. <i>Science of the Total Environment</i> , 2020, 743, 140831.	3.9	13
35	Photocatalytic ozonation of parabens mixture using 10% N-TiO ₂ and the effect of water matrix. <i>Science of the Total Environment</i> , 2020, 718, 137321.	3.9	33
36	Assessment of hazardous property HP 14 using ecotoxicological tests: a case study of weathered coal fly ash. <i>Environmental Science and Pollution Research</i> , 2020, 27, 20972-20983.	2.7	7

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37	Screening of low-cost materials as heterogeneous catalysts for olive mill wastewater Fenton [®] 's peroxidation. <i>Energy Reports</i> , 2020, 6, 161-167.	2.5	11
38	Moving bed biofilm reactor (MBBR) for dairy wastewater treatment. <i>Energy Reports</i> , 2020, 6, 340-344.	2.5	38
39	Solar Photocatalytic Degradation of Sulfamethoxazole by TiO ₂ Modified with Noble Metals. <i>Catalysts</i> , 2019, 9, 500.	1.6	31
40	Characterization of Ecotoxicological Effects of Green Liquor Dregs from the Pulp and Paper Industry. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14707-14715.	3.2	10
41	TiO ₂ nanotube arrays-based reactor for photocatalytic oxidation of parabens mixtures in ultrapure water: Effects of photocatalyst properties, operational parameters and light source. <i>Science of the Total Environment</i> , 2019, 689, 79-89.	3.9	27
42	Removal of Enteric Pathogens from Real Wastewater Using Single and Catalytic Ozonation. <i>Water (Switzerland)</i> , 2019, 11, 127.	1.2	19
43	Catalytic Efficiency of Red Mud for the Degradation of Olive Mill Wastewater through Heterogeneous Fenton [®] 's Process. <i>Water (Switzerland)</i> , 2019, 11, 1183.	1.2	22
44	Effect of Different Radiation Sources and Noble Metal Doped onto TiO ₂ for Contaminants of Emerging Concern Removal. <i>Water (Switzerland)</i> , 2019, 11, 894.	1.2	9
45	N [®] -TiO ₂ Photocatalysts: A Review of Their Characteristics and Capacity for Emerging Contaminants Removal. <i>Water (Switzerland)</i> , 2019, 11, 373.	1.2	112
46	Optical Sensing of Nitrogen, Phosphorus and Potassium: A Spectrophotometrical Approach Toward Smart Nutrient Deployment. <i>Chemosensors</i> , 2019, 7, 51.	1.8	29
47	Comparison of radical-driven technologies applied for paraben mixture degradation: mechanism, biodegradability, toxicity and cost assessment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 37174-37192.	2.7	20
48	Study of the influence of the matrix characteristics over the photocatalytic ozonation of parabens using Ag-TiO ₂ . <i>Science of the Total Environment</i> , 2019, 646, 1468-1477.	3.9	46
49	Comparative analysis of methods and models for predicting biochemical methane potential of various organic substrates. <i>Science of the Total Environment</i> , 2019, 649, 1599-1608.	3.9	50
50	Ecotoxicity variation through parabens degradation by single and catalytic ozonation using volcanic rock. <i>Chemical Engineering Journal</i> , 2019, 360, 30-37.	6.6	30
51	Ozone and Photocatalytic Processes for Pathogens Removal from Water: A Review. <i>Catalysts</i> , 2019, 9, 46.	1.6	61
52	Paraben degradation using catalytic ozonation over volcanic rocks. <i>Environmental Science and Pollution Research</i> , 2018, 25, 7346-7357.	2.7	27
53	Environmentally applications of invasive bivalves for water and wastewater decontamination. <i>Science of the Total Environment</i> , 2018, 630, 1016-1027.	3.9	24
54	Integrating Fenton [®] 's process and ion exchange for olive mill wastewater treatment and iron recovery. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 308-316.	1.2	15

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55	Removal of sulfamethoxazole and diclofenac from water: strategies involving O ₃ and H ₂ O ₂ . <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1658-1669.	1.2	13
56	Winery wastewater treatment by integrating Fenton's process with biofiltration by <i>Corbicula fluminea</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 333-339.	1.6	25
57	Comparison of Photocatalytic and Photosensitized Oxidation of Paraben Aqueous Solutions Under Sunlight. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 362.	1.1	15
58	Detoxification of Olive Mill Wastewaters by Fenton's Process. <i>Catalysts</i> , 2018, 8, 662.	1.6	36
59	Effect of Noble Metals (Ag, Pd, Pt) Loading over the Efficiency of TiO ₂ during Photocatalytic Ozonation on the Toxicity of Parabens. <i>ChemEngineering</i> , 2018, 2, 4.	1.0	34
60	Optimization of operating conditions for the valorization of olive mill wastewater using membrane processes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21968-21981.	2.7	15
61	Biofiltration using <i>C. fluminea</i> for E.coli removal from water: Comparison with ozonation and photocatalytic oxidation. <i>Chemosphere</i> , 2018, 208, 674-681.	4.2	18
62	Electrochemical abatement of amaranth dye solutions using individual or an assembling of flow cells with Ti/Pt and Ti/Pt-SnSb anodes. <i>Separation and Purification Technology</i> , 2017, 179, 194-203.	3.9	34
63	Electrochemical oxidation of phenolic wastewaters using a batch-stirred reactor with NaCl electrolyte and Ti/RuO ₂ anodes. <i>Journal of Electroanalytical Chemistry</i> , 2017, 785, 180-189.	1.9	75
64	Application of ozonation for pharmaceuticals and personal care products removal from water. <i>Science of the Total Environment</i> , 2017, 586, 265-283.	3.9	321
65	Ozone-Based Technologies for Parabens Removal from Water: Toxicity Assessment. <i>Ozone: Science and Engineering</i> , 2017, 39, 233-243.	1.4	9
66	Detoxification of parabens using UV-A enhanced by noble metals-TiO ₂ supported catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3065-3074.	3.3	52
67	Phenolic wastewaters depuration by electrochemical oxidation process using Ti/IrO ₂ anodes. <i>Environmental Science and Pollution Research</i> , 2017, 24, 7521-7533.	2.7	22
68	A study of bio-hybrid silsesquioxane/yeast: Biosorption and neuronal toxicity of lead. <i>Journal of Biotechnology</i> , 2017, 264, 43-50.	1.9	9
69	Noble metal-TiO ₂ supported catalysts for the catalytic ozonation of parabens mixtures. <i>Chemical Engineering Research and Design</i> , 2017, 111, 148-159.	2.7	39
70	Photocatalytic ozonation using doped TiO ₂ catalysts for the removal of parabens in water. <i>Science of the Total Environment</i> , 2017, 609, 329-340.	3.9	78
71	Recovery of phenolic compounds from wastewaters through micellar enhanced ultrafiltration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 531, 18-24.	2.3	22
72	Iron recovery from the Fenton's treatment of winery effluent using an ion-exchange resin. <i>Journal of Molecular Liquids</i> , 2017, 242, 505-511.	2.3	30

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73	Dye wastewaters treatment using batch and recirculation flow electrocoagulation systems. Journal of Electroanalytical Chemistry, 2017, 801, 30-37.	1.9	45
74	Phytotoxicity assessment of olive mill solid wastes and the influence of phenolic compounds. Chemosphere, 2017, 185, 258-267.	4.2	62
75	From a lab test to industrial application: scale-up of Fenton process for real olive mill wastewater treatment. Journal of Chemical Technology and Biotechnology, 2017, 92, 1336-1344.	1.6	26
76	Environmental preservation of emerging parabens contamination: effect of Ag and Pt loading over the catalytic efficiency of TiO ₂ during photocatalytic ozonation. Energy Procedia, 2017, 136, 270-276.	1.8	10
77	Integrating the Fenton's Process with Biofiltration by <i>Corbicula fluminea</i> to Reduce Chemical Oxygen Demand of Winery Effluents. Journal of Environmental Quality, 2017, 46, 436-442.	1.0	12
78	Anaerobic digestion impact on the adaptation to climate change in São Tomé and Príncipe. , 2017, , 277-282.		0
79	Hazards identification in waste collection systems: A case study. , 2017, , 227-233.		0
80	Integration of advanced oxidation processes and activated sludge for the treatment of high refractory industrial wastewater. Journal of Chemical Technology and Biotechnology, 2016, 91, 2503-2509.	1.6	7
81	Olive mill effluent depuration by ozonation and Fenton processes enhanced by iron wastes. Water Science and Technology, 2016, 73, 1136-1144.	1.2	3
82	Application of Fenton oxidation to reduce the toxicity of mixed parabens. Water Science and Technology, 2016, 74, 1867-1875.	1.2	27
83	A new winery wastewater treatment approach during vintage periods integrating ferric coagulation, Fenton reaction and activated sludge. Journal of Environmental Chemical Engineering, 2016, 4, 2207-2215.	3.3	35
84	Treatment of Amaranth dye in aqueous solution by using one cell or two cells in series with active and non-active anodes. Electrochimica Acta, 2016, 210, 96-104.	2.6	23
85	Effect of Calcination Temperature over the Performance of Mn-Ce-O on the Catalytic Ozonation of Olive Mill Wastewater. Ozone: Science and Engineering, 2016, 38, 261-271.	1.4	1
86	Integration of traditional systems and advanced oxidation process technologies for the industrial treatment of olive mill wastewaters. Environmental Technology (United Kingdom), 2016, 37, 2524-2535.	1.2	21
87	Ozonation and perozonation on the biodegradability improvement of a landfill leachate. Journal of Environmental Chemical Engineering, 2016, 4, 527-533.	3.3	54
88	Fenton's treatment as an effective treatment for elderberry effluents: economical evaluation. Environmental Technology (United Kingdom), 2016, 37, 1208-1219.	1.2	14
89	Catalytic studies for the abatement of emerging contaminants by ozonation. Journal of Chemical Technology and Biotechnology, 2015, 90, 1611-1618.	1.6	23
90	Photodegradation of single and mixture of parabens - Kinetic, by-products identification and cost-efficiency analysis. Chemical Engineering Journal, 2015, 276, 303-314.	6.6	88

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91	Studies on the Chemical Stabilisation of Digestate from Mechanically Recovered Organic Fraction of Municipal Solid Waste. Waste and Biomass Valorization, 2015, 6, 711-721.	1.8	16
92	Phenolic wastewaters treatment by electrocoagulation process using Zn anode. Chemical Engineering Journal, 2015, 275, 331-341.	6.6	102
93	Ozonation and ultrafiltration for the treatment of olive mill wastewaters: effect of key operating conditions and integration schemes. Environmental Science and Pollution Research, 2015, 22, 15587-15597.	2.7	16
94	Ozone/H ₂ O ₂ Performance on the Degradation of Sulfamethoxazole. Ozone: Science and Engineering, 2015, 37, 509-517.	1.4	26
95	Treatment of a Synthetic Phenolic Mixture by Electrocoagulation Using Al, Cu, Fe, Pb, and Zn as Anode Materials. Industrial & Engineering Chemistry Research, 2014, 53, 18339-18345.	1.8	28
96	A Review on the Applications of Ozonation for the Treatment of Real Agro-Industrial Wastewaters. Ozone: Science and Engineering, 2014, 36, 3-35.	1.4	25
97	Nanofiltration and Fenton's process over iron shavings for surfactants removal. Environmental Technology (United Kingdom), 2014, 35, 2380-2388.	1.2	9
98	Low-Cost Catalysts To Enhance Ozone Action on the Depuration of Olive Mill Wastewaters. Industrial & Engineering Chemistry Research, 2014, 53, 15357-15368.	1.8	23
99	Composition Effect of Iron-Copper Composite Catalysts in the Fenton Heterogeneous Process Efficiency and Cooxidation Synergy Assessment. Industrial & Engineering Chemistry Research, 2014, 53, 15369-15373.	1.8	13
100	Flocculation, Ozonation, and Fenton's Process in the Treatment of Distillery Effluents. Journal of Environmental Engineering, ASCE, 2013, 139, 110-116.	0.7	9
101	Catalytic activity of low cost materials for pollutants abatement by Fenton's process. Chemical Engineering Science, 2013, 100, 225-233.	1.9	30
102	Treatment of a simulated phenolic effluent by heterogeneous catalytic ozonation using Pt/Al ₂ O ₃ . Environmental Technology (United Kingdom), 2013, 34, 301-311.	1.2	16
103	Reuse of Homogeneous Fenton's Sludge from Detergent Industry as Fenton's Catalyst. Journal of Advanced Oxidation Technologies, 2013, 16, .	0.5	7
104	Organic biowastes blend selection for composting industrial eggshell by-product: experimental and statistical mixture design. Water Science and Technology, 2012, 65, 1939-1945.	1.2	6
105	Utilization of Ozone Based Techniques for Industrial Effluents Depuration and Reuse. Journal of Advanced Oxidation Technologies, 2012, 15, .	0.5	0
106	Enhancing Agro-Industrial Wastewaters Depuration by Ozone Oxidation. Ozone: Science and Engineering, 2012, 34, 387-396.	1.4	3
107	Treatment improvement of urban landfill leachates by Fenton-like process using ZVI. Chemical Engineering Journal, 2012, 192, 219-225.	6.6	73
108	Heterogeneous Fenton using ceria based catalysts: effects of the calcination temperature in the process efficiency. Applied Catalysis B: Environmental, 2012, 111-112, 254-263.	10.8	31

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109	Application of hydrophobic silica based aerogels and xerogels for removal of toxic organic compounds from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2012, 380, 134-140.	5.0	109
110	Advanced oxidation processes for treatment of effluents from a detergent industry. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1031-1041.	1.2	27
111	Comparison of Advanced Oxidation Processes (AOPs) based on O ₃ and H ₂ O ₂ for the Remediation of Real Wastewaters. <i>Journal of Advanced Oxidation Technologies</i> , 2011, 14, .	0.5	3
112	Remediation of phenolic wastewaters by advanced oxidation processes (AOPs) at ambient conditions: Comparative studies. <i>Chemical Engineering Science</i> , 2011, 66, 3243-3250.	1.9	51
113	Phenolic wastewaters depuration and biodegradability enhancement by ozone over active catalysts. <i>Desalination</i> , 2011, 270, 90-97.	4.0	31
114	Fenton's oxidation process for phenolic wastewater remediation and biodegradability enhancement. <i>Journal of Hazardous Materials</i> , 2010, 180, 716-721.	6.5	122
115	Ceria based solid catalysts for Fenton's depuration of phenolic wastewaters, biodegradability enhancement and toxicity removal. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 135-144.	10.8	55
116	Lumped kinetic models for single ozonation of phenolic effluents. <i>Chemical Engineering Journal</i> , 2010, 165, 678-685.	6.6	38
117	Final Remediation of Post-Biological Treated Milk Whey Wastewater by Ozone. <i>International Journal of Chemical Reactor Engineering</i> , 2010, 8, .	0.6	12
118	Fenton's Process for Post-Biologically Treated Cheese Production Wastewaters Final Remediation. Toxicity Assessment. <i>International Journal of Chemical Reactor Engineering</i> , 2010, 8, .	0.6	4
119	Adopting strategies to improve the efficiency of ozonation in the real-scale treatment of olive oil mill wastewaters. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 1459-1469.	1.2	25
120	Fenton's Depuration of Weathered Olive Mill Wastewaters over a Fe ³⁺ /Ce ⁴⁺ /O Solid Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9043-9051.	1.8	14
121	Integrated Strategy for Treatment of Winery Wastewaters Using Flocculation, Ozonation and Fenton's Oxidation. <i>Journal of Advanced Oxidation Technologies</i> , 2009, 12, .	0.5	3
122	Session 8. Molecular and Cellular Proteomics, 2009, 8, S55-S56.	2.5	0
123	Catalytic ozonation of phenolic acids over a Mn ²⁺ /Ce ⁴⁺ /O catalyst. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 268-277.	10.8	138
124	Manganese-Based Catalysts for the Catalytic Remediation of Phenolic Acids by Ozone. <i>Ozone: Science and Engineering</i> , 2009, 31, 402-411.	1.4	12
125	Screening of Ceria-Based and Commercial Ceramic Catalysts for Catalytic Ozonation of Simulated Olive Mill Wastewaters. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1196-1202.	1.8	42
126	Single and Catalytic Ozonation for Phenolic Wastewaters Remediation. , 2008, , .		2