

# Emmanuel Mousset

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

2,392  
citations

230014

27  
h-index

299063

42  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of hydrophobic organic pollutants from soil washing/flushing solutions: A critical review. <i>Journal of Hazardous Materials</i> , 2016, 306, 149-174.	6.5	377
2	A complete phenol oxidation pathway obtained during electro-Fenton treatment and validated by a kinetic model study. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 189-198.	10.8	141
3	Comparative study on the removal of humic acids from drinking water by anodic oxidation and electro-Fenton processes: Mineralization efficiency and modelling. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 32-41.	10.8	119
4	Combination of surfactant enhanced soil washing and electro-Fenton process for the treatment of soils contaminated by petroleum hydrocarbons. <i>Journal of Environmental Management</i> , 2015, 153, 40-47.	3.8	118
5	Influence of solubilizing agents (cyclodextrin or surfactant) on phenanthrene degradation by electro-Fenton process – Study of soil washing recycling possibilities and environmental impact. <i>Water Research</i> , 2014, 48, 306-316.	5.3	108
6	Nanostructured electrodes for electrocatalytic advanced oxidation processes: From materials preparation to mechanisms understanding and wastewater treatment applications. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120332.	10.8	104
7	Physico-chemical properties of pristine graphene and its performance as electrode material for electro-Fenton treatment of wastewater. <i>Electrochimica Acta</i> , 2016, 214, 217-230.	2.6	90
8	An unprecedented route of OH radical reactivity evidenced by an electrocatalytic process: Ipso-substitution with perhalogenocarbon compounds. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 135-146.	10.8	83
9	Treatment of synthetic soil washing solutions containing phenanthrene and cyclodextrin by electro-oxidation. Influence of anode materials on toxicity removal and biodegradability enhancement. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 666-675.	10.8	81
10	Soil Washing/Flushing Treatments of Organic Pollutants Enhanced by Cyclodextrins and Integrated Treatments: State of the Art. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 705-795.	6.6	77
11	Electrocatalytic activity enhancement of a graphene ink-coated carbon cloth cathode for oxidative treatment. <i>Electrochimica Acta</i> , 2016, 222, 1628-1641.	2.6	69
12	Photoelectrochemical reactors for treatment of water and wastewater: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1301-1318.	8.3	66
13	Cost comparison of advanced oxidation processes for wastewater treatment using accumulated oxygen-equivalent criteria. <i>Water Research</i> , 2021, 200, 117234.	5.3	63
14	Electrochemical treatment of highly concentrated wastewater: A review of experimental and modeling approaches from lab- to full-scale. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 240-309.	6.6	61
15	Highly energy-efficient removal of acrylonitrile by peroxi-coagulation with modified graphite felt cathode: Influence factors, possible mechanism. <i>Chemical Engineering Journal</i> , 2018, 343, 467-476.	6.6	58
16	Recent advances in electro-Fenton process and its emerging applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 887-913.	6.6	57
17	Impact of electrochemical treatment of soil washing solution on PAH degradation efficiency and soil respirometry. <i>Environmental Pollution</i> , 2016, 211, 354-362.	3.7	56
18	Electrocatalytic phenol degradation by a novel nanostructured carbon fiber brush cathode coated with graphene ink. <i>Electrochimica Acta</i> , 2017, 258, 607-617.	2.6	52

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19	Charge transfer/mass transport competition in advanced hybrid electrocatalytic wastewater treatment: Development of a new current efficiency relation. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 102-111.	10.8	49
20	Remediation of soils contaminated by hydrophobic organic compounds: How to recover extracting agents from soil washing solutions?. <i>Journal of Hazardous Materials</i> , 2021, 404, 124137.	6.5	49
21	Fate of inorganic nitrogen species under homogeneous Fenton combined with electro-oxidation/reduction treatments in synthetic solutions and reclaimed municipal wastewater. <i>Chemosphere</i> , 2018, 201, 6-12.	4.2	42
22	Electrochemical technologies for the treatment of pesticides. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100677.	2.5	41
23	A new 3D-printed photoelectrocatalytic reactor combining the benefits of a transparent electrode and the Fenton reaction for advanced wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24951-24964.	5.2	40
24	Advanced Electro-oxidation with Boron-doped Diamond for Acetaminophen Removal from Real Wastewater in a Microfluidic Reactor: Kinetics and Mass-transfer Studies. <i>ChemElectroChem</i> , 2019, 6, 2908-2916.	1.7	38
25	A review of electrochemical reduction processes to treat oxidized contaminants in water. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 221-227.	2.5	38
26	Advanced electrocatalytic pre-treatment to improve the biodegradability of real wastewater from the electronics industry – A detailed investigation study. <i>Journal of Hazardous Materials</i> , 2018, 360, 552-559.	6.5	36
27	Iron-impregnated zeolite catalyst for efficient removal of micropollutants at very low concentration from Meurthe river. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34950-34967.	2.7	29
28	Effect of homogeneous Fenton combined with electron transfer on the fate of inorganic chlorinated species in synthetic and reclaimed municipal wastewater. <i>Electrochimica Acta</i> , 2020, 334, 135608.	2.6	29
29	Electro-Fenton for control and removal of micropollutants – process optimization and energy efficiency. <i>Water Science and Technology</i> , 2016, 74, 2068-2074.	1.2	27
30	Influence of number of azo bonds and mass transport limitations towards the elimination capacity of continuous electrochemical process for the removal of textile industrial dyes. <i>Chemosphere</i> , 2021, 262, 128381.	4.2	23
31	Electrochemical technologies coupled with biological treatments. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100668.	2.5	23
32	A new micelle-based method to quantify the Tween 80® surfactant for soil remediation. <i>Agronomy for Sustainable Development</i> , 2013, 33, 839-846.	2.2	21
33	Unprecedented reactive electro-mixing reactor: Towards synergy between micro- and macro-reactors?. <i>Electrochemistry Communications</i> , 2020, 118, 106787.	2.3	21
34	A critical review on the electrosorption of organic compounds in aqueous effluent – Influencing factors and engineering considerations. <i>Environmental Research</i> , 2022, 204, 112128.	3.7	20
35	Electrosorption of phenolic compounds from olive mill wastewater: Mass transport consideration under a transient regime through an alginate-activated carbon fixed-bed electrode. <i>Journal of Hazardous Materials</i> , 2022, 430, 128480.	6.5	20
36	Mineral cathodic electro-precipitation and its kinetic modelling in thin-film microfluidic reactor during advanced electro-oxidation process. <i>Electrochimica Acta</i> , 2021, 387, 138487.	2.6	15

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37	Mass transport evolution in microfluidic thin film electrochemical reactors: New correlations from millimetric to submillimetric interelectrode distances. <i>Electrochemistry Communications</i> , 2021, 130, 107097.	2.3	15
38	Unprecedented roles of submillimetric interelectrode distances and electrogenerated gas bubbles on mineral cathodic electro-precipitation: Modeling and interface studies. <i>Chemical Engineering Journal</i> , 2022, 431, 133413.	6.6	13
39	Interest of micro-reactors for the implementation of advanced electrocatalytic oxidation with boron-doped diamond anode for wastewater treatment. <i>Current Opinion in Electrochemistry</i> , 2022, 32, 100897.	2.5	10
40	Soil Remediation by Electro-Fenton Process. <i>Handbook of Environmental Chemistry</i> , 2017, , 399-423.	0.2	6
41	Advanced hybrid electro-separation/electro-conversion systems for wastewater treatment, reuse and recovery: Compromise between symmetric and asymmetric constraints. <i>Current Opinion in Electrochemistry</i> , 2022, 35, 101105.	2.5	4
42	Thin film microfluidic reactors in electrochemical advanced oxidation processes for wastewater treatment: A review on influencing parameters, scaling issues, and engineering considerations. <i>Electrochemical Science Advances</i> , 2023, 3, .	1.2	3
43	Treatment of Soil Washing Solutions by Electrochemical Advanced Oxidation. <i>Environmental Pollution</i> , 2021, , 89-109.	0.4	0