Jean-Philippe Croue

List of Publications by Year
in descending order

103 papers	8,880 citations	50276 46 h-index	40979 93 g-index
104 all docs	104 docs citations	104 times ranked	7058 citing authors

#	Article	IF	Citations
1	Peer Reviewed: Characterizing Aquatic Dissolved Organic Matter. Environmental Science & Technology, 2003, 37, 18A-26A.	10.0	1,027
2	Production of Sulfate Radical from Peroxymonosulfate Induced by a Magnetically Separable CuFe₂O₄ Spinel in Water: Efficiency, Stability, and Mechanism. Environmental Science & Technology, 2013, 47, 2784-2791.	10.0	960
3	Efficient Peroxydisulfate Activation Process Not Relying on Sulfate Radical Generation for Water Pollutant Degradation. Environmental Science & Technology, 2014, 48, 5868-5875.	10.0	634
4	Identification and understanding of fouling in low-pressure membrane (MF/UF) filtration by natural organic matter (NOM). Water Research, 2004, 38, 4511-4523.	11.3	500
5	Fouling characteristics of wastewater effluent organic matter (EfOM) isolates on NF and UF membranes. Desalination, 2002, 145, 247-255.	8.2	320
6	Removal of pharmaceutical and personal care products (PPCPs) from wastewater using microalgae: A review. Journal of Hazardous Materials, 2021, 403, 124041.	12.4	262
7	Low-pressure membrane (MF/UF) fouling associated with allochthonous versus autochthonous natural organic matter. Water Research, 2006, 40, 2357-2368.	11.3	184
8	Chloramination of nitrogenous contaminants (pharmaceuticals and pesticides): NDMA and halogenated DBPs formation. Water Research, 2011, 45, 3164-3174.	11.3	168
9	Performance of selected anion exchange resins for the treatment of a high DOC content surface water. Water Research, 2005, 39, 1699-1708.	11.3	164
10	Natural organic matter (NOM) and pesticides removal using a combination of ion exchange resin and powdered activated carbon (PAC). Water Research, 2008, 42, 1635-1643.	11.3	148
11	Catalytic Ozonation of Oxalate with a Cerium Supported Palladium Oxide: An Efficient Degradation Not Relying on Hydroxyl Radical Oxidation. Environmental Science & Technology, 2011, 45, 9339-9346.	10.0	146
12	Formation of Brominated Disinfection Byproducts from Natural Organic Matter Isolates and Model Compounds in a Sulfate Radical-Based Oxidation Process. Environmental Science & Technology, 2014, 48, 14534-14542.	10.0	139
13	The formation of halogen-specific TOX from chlorination and chloramination of natural organic matter isolates. Water Research, 2009, 43, 4177-4186.	11.3	125
14	Removal of trace organic chemicals in wastewater effluent by UV/H2O2 and UV/PDS. Water Research, 2018, 145, 487-497.	11.3	124
15	Influence of Surface Properties of Filtration-Layer Metal Oxide on Ceramic Membrane Fouling during Ultrafiltration of Oil/Water Emulsion. Environmental Science & Technology, 2016, 50, 4668-4674.	10.0	123
16	Combination of coagulation and ion exchange for the reduction of UF fouling properties of a high DOC content surface water. Water Research, 2007, 41, 3803-3811.	11.3	119
17	Roles of singlet oxygen and dissolved organic matter in self-sensitized photo-oxidation of antibiotic norfloxacin under sunlight irradiation. Water Research, 2016, 106, 214-222.	11.3	115
18	Contribution of effluent organic matter (EfOM) to ultrafiltration (UF) membrane fouling: Isolation, characterization, and fouling effect of EfOM fractions. Water Research, 2014, 65, 414-424.	11.3	114

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19	Haloacetic acid and Trihalomethane Formation from the Chlorination and Bromination of Aliphatic Î²-Dicarbonyl Acid Model Compounds. Environmental Science & Technology, 2008, 42, 3226-3233.	10.0	110
20	Formation of NDMA and Halogenated DBPs by Chloramination of Tertiary Amines: The Influence of Bromide Ion. Environmental Science & Technology, 2012, 46, 1581-1589.	10.0	109
21	Identification of effluent organic matter fractions responsible for low-pressure membrane fouling. Water Research, 2012, 46, 5531-5540.	11.3	108
22	A non-acid-assisted and non-hydroxyl-radical-related catalytic ozonation with ceria supported copper oxide in efficient oxalate degradation in water. Applied Catalysis B: Environmental, 2012, 121-122, 88-94.	20.2	108
23	How different is the composition of the fouling layer of wastewater reuse and seawater desalination RO membranes?. Water Research, 2014, 59, 271-282.	11.3	108
24	NDMA Formation by Chloramination of Ranitidine: Kinetics and Mechanism. Environmental Science & Technology, 2012, 46, 11095-11103.	10.0	105
25	Hydroxyl and sulfate radical-based oxidation of RhB dye in UV/H2O2 and UV/persulfate systems: Kinetics, mechanisms, and comparison. Chemosphere, 2020, 253, 126655.	8.2	102
26	Modeling monochloramine loss in the presence of natural organic matter. Water Research, 2005, 39, 3418-3431.	11.3	98
27	Roles of singlet oxygen and triplet excited state of dissolved organic matter formed by different organic matters in bacteriophage MS2 inactivation. Water Research, 2013, 47, 4869-4879.	11.3	98
28	Isolation of Humic and Non-Humic NOM Fractions: Structural Characterization. Environmental Monitoring and Assessment, 2004, 92, 193-207.	2.7	90
29	Comprehensive Isolation of Natural Organic Matter from Water for Spectral Characterizations and Reactivity Testing. ACS Symposium Series, 2000, , 68-83.	0.5	84
30	Enhanced Bromate Formation during Chlorination of Bromide-Containing Waters in the Presence of CuO: Catalytic Disproportionation of Hypobromous Acid. Environmental Science & Technology, 2012, 46, 11054-11061.	10.0	79
31	Morphological analyses of natural organic matter (NOM) fouling of low-pressure membranes (MF/UF). Journal of Membrane Science, 2005, 261, 7-16.	8.2	78
32	Photodegradation of estrone enhanced by dissolved organic matter under simulated sunlight. Water Research, 2011, 45, 3341-3350.	11.3	77
33	Formation of Haloacetonitriles, Haloacetamides, and Nitrogenous Heterocyclic Byproducts by Chloramination of Phenolic Compounds. Environmental Science & Technology, 2017, 51, 655-663.	10.0	71
34	Source water quality shaping different fouling scenarios in a full-scale desalination plant at the Red Sea. Water Research, 2013, 47, 558-568.	11.3	70
35	Organic matter interactions with natural manganese oxide and synthetic birnessite. Science of the Total Environment, 2017, 583, 487-495.	8.0	68
36	Modeling of bromate formation by ozonation of surface waters in drinking water treatment. Water Research, 2004, 38, 2185-2195.	11.3	67

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37	Chloramination of wastewater effluent: Toxicity and formation of disinfection byproducts. Journal of Environmental Sciences, 2017, 58, 135-145.	6.1	67
38	In Situ Formation of Free Chlorine During ClO₂Treatment: Implications on the Formation of Disinfection Byproducts. Environmental Science & Technology, 2018, 52, 13421-13429.	10.0	66
39	Removal of metronidazole from aqueous media by C. vulgaris. Journal of Hazardous Materials, 2020, 384, 121400.	12.4	65
40	Comparative study of two fractions of riverine dissolved organic matter using various analytical pyrolytic methods and a 13C CP/MAS NMR approach. Organic Geochemistry, 2005, 36, 1418-1442.	1.8	63
41	A novel catalytic ceramic membrane fabricated with CuMn2O4 particles for emerging UV absorbers degradation from aqueous and membrane fouling elimination. Journal of Hazardous Materials, 2018, 344, 1229-1239.	12.4	56
42	Photobleaching-induced changes in photosensitizing properties of dissolved organic matter. Water Research, 2014, 66, 140-148.	11.3	54
43	Catalytic ozonation not relying on hydroxyl radical oxidation: A selective and competitive reaction process related to metalâ€“carboxylate complexes. Applied Catalysis B: Environmental, 2014, 144, 831-839.	20.2	52
44	Characterization of humic acid reactivity modifications due to adsorption onto Î±-Al2O3. Water Research, 2012, 46, 731-740.	11.3	50
45	Degradation and deactivation of a plasmid-encoded extracellular antibiotic resistance gene during separate and combined exposures to UV254 and radicals. Water Research, 2020, 182, 115921.	11.3	50
46	The role of aromatic precursors in the formation of haloacetamides by chloramination of dissolved organic matter. Water Research, 2016, 88, 371-379.	11.3	49
47	Interactions of phosphate solubilising microorganisms with natural rare-earth phosphate minerals: a study utilizing Western Australian monazite. Bioprocess and Biosystems Engineering, 2017, 40, 929-942.	3.4	49
48	Formation of Bromate and Halogenated Disinfection Byproducts during Chlorination of Bromide-Containing Waters in the Presence of Dissolved Organic Matter and CuO. Environmental Science & Technology, 2016, 50, 135-144.	10.0	48
49	Enhanced peroxymonosulfate activation by Cu-doped LaFeO3 with rich oxygen vacancies: Compound-specific mechanisms. Chemical Engineering Journal, 2022, 435, 134882.	12.7	48
50	Reactivity of unactivated peroxymonosulfate with nitrogenous compounds. Water Research, 2020, 169, 115221.	11.3	45
51	Tracing disinfection byproducts in full-scale desalination plants. Desalination, 2015, 359, 141-148.	8.2	43
52	Chlorination of bromide-containing waters: Enhanced bromate formation in the presence ofÂsynthetic metal oxides and deposits formed inÂdrinking water distribution systems. Water Research, 2013, 47, 5307-5315.	11.3	41
53	Citrate-Coated Silver Nanoparticles Interactions with Effluent Organic Matter: Influence of Capping Agent and Solution Conditions. Langmuir, 2015, 31, 8865-8872.	3.5	41
54	Photodegradation of sulfathiazole under simulated sunlight: Kinetics, photo-induced structural rearrangement, and antimicrobial activities of photoproducts. Water Research, 2017, 124, 576-583.	11.3	41

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55	Catalytic ozonation of emerging pollutant and reduction of toxic by-products in secondary effluent matrix and effluent organic matterÂreaction activity. Water Research, 2019, 166, 115026.	11.3	38
56	Effects of charging on the chromophores of dissolved organic matter from the Rio Negro basin. Water Research, 2014, 59, 154-164.	11.3	36
57	Impact of DOM source and character on the degradation of primidone by UV/chlorine: Reaction kinetics and disinfection by-product formation. Water Research, 2020, 172, 115463.	11.3	35
58	Occurrence of disinfection by-products in swimming pools and the estimated resulting cytotoxicity. Science of the Total Environment, 2019, 664, 851-864.	8.0	34
59	Reactivity of chromophoric dissolved organic matter (CDOM) to sulfate radicals: Reaction kinetics and structural transformation. Water Research, 2019, 163, 114846.	11.3	33
60	Molecular insights into the reactivity of aquatic natural organic matter towards hydroxyl (â€¢OH) and sulfate (SO4â€¢â¯) radicals using FT-ICR MS. Chemical Engineering Journal, 2021, 425, 130622.	12.7	33
61	Photodecomposition of iodinated contrast media and subsequent formation of toxic iodinated moieties during final disinfection with chlorinated oxidants. Water Research, 2016, 103, 453-461.	11.3	32
62	Photochemical production of hydroxyl radical from algal organic matter. Water Research, 2019, 161, 11-16.	11.3	32
63	Excited Triplet State Interactions of Fluoroquinolone Norfloxacin with Natural Organic Matter: A Laser Spectroscopy Study. Environmental Science & Technology, 2018, 52, 10426-10432.	10.0	31
64	Characterization of the colloidal organic matter from theÂAmazonian basin by asymmetrical flow field-flow fractionation and size exclusion chromatography. Water Research, 2010, 44, 223-231.	11.3	30
65	Sunlight-Induced Inactivation of Human Wa and Porcine OSU Rotaviruses in the Presence of Exogenous Photosensitizers. Environmental Science & Technology, 2013, 47, 11004-11012.	10.0	29
66	Seasonal variation of organic matter concentration and characteristics in the Maji ya Chai River (Tanzania): Impact on treatability by ultrafiltration. Water Research, 2016, 101, 370-381.	11.3	29
67	Characterisation of dissolved organic matter using Fourier-transform ion cyclotron resonance mass spectrometry: Type-specific unique signatures and implications for reactivity. Science of the Total Environment, 2018, 644, 68-76.	8.0	29
68	Thermal release of nitrogen organics from natural organic matter using micro scale sealed vessel pyrolysis. Organic Geochemistry, 2007, 38, 1073-1090.	1.8	28
69	Chlorination of Iodide-Containing Waters in the Presence of CuO: Formation of Periodate. Environmental Science & Technology, 2014, 48, 13173-13180.	10.0	27
70	Changes in Physicochemical and Transport Properties of a Reverse Osmosis Membrane Exposed to Chloraminated Seawater. Environmental Science & Technology, 2015, 49, 2301-2309.	10.0	26
71	Natural organic matter interactions with polyamide and polysulfone membranes: Formation of conditioning film. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 477, 1-8.	4.7	25
72	Chlorination or monochloramination: Balancing the regulated trihalomethane formation and microbial inactivation in marine aquaculture waters. Aquaculture, 2017, 480, 94-102.	3.5	25

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73	Formation of methyl iodide on a natural manganese oxide. Water Research, 2010, 44, 4623-4629.	11.3	24
74	Investigation of severe UF membrane fouling induced by three marine algal species. Water Research, 2016, 93, 10-19.	11.3	23
75	Impact of EfOM in the elimination of PPCPs by UV/chlorine: Radical chemistry and toxicity bioassays. Water Research, 2021, 204, 117634.	11.3	20
76	Impact of brominated amines on monochloramine stability during in-line and pre-formed chloramination assessed by kinetic modelling. Science of the Total Environment, 2018, 618, 1431-1439.	8.0	19
77	Method Development for Quantification of Bromochloramine Using Membrane Introduction Mass Spectrometry. Environmental Science & Technology, 2018, 52, 7805-7812.	10.0	19
78	Importance of origin and characteristics of biopolymers in reversible and irreversible fouling of ultrafiltration membranes. Science of the Total Environment, 2021, 784, 147157.	8.0	18
79	SO4â€“-based catalytic ceramic UF membrane for organics removal and flux restoration. Chemical Engineering Journal, 2020, 398, 125600.	12.7	18
80	Inputs of disinfection by-products to the marine environment from various industrial activities: Comparison to natural production. Water Research, 2022, 217, 118383.	11.3	18
81	Survival of antibiotic resistant bacteria following artificial solar radiation of secondary wastewater effluent. Science of the Total Environment, 2018, 626, 1005-1011.	8.0	17
82	The characteristics of organic matter influence its interfacial interactions with MnO2 and catalytic oxidation processes. Chemosphere, 2018, 209, 950-959.	8.2	17
83	Effect of IX dosing on polypropylene and PVDF membrane fouling control. Water Research, 2013, 47, 3827-3834.	11.3	16
84	Membrane fouling mechanism transition in relation to feed water composition. Journal of Membrane Science, 2014, 471, 265-273.	8.2	16
85	Comparison of the impact of ozone, chlorine dioxide, ferrate and permanganate pre-oxidation on organic disinfection byproduct formation during post-chlorination. Environmental Science: Water Research and Technology, 2020, 6, 2382-2395.	2.4	16
86	Sunlight-induced phototransformation of transphilic and hydrophobic fractions of Suwannee River dissolved organic matter. Science of the Total Environment, 2019, 694, 133737.	8.0	14
87	Genotoxic effects of chlorinated disinfection by-products of 1,3-diphenylguanidine (DPG): Cell-based in-vitro testing and formation potential during water disinfection. Journal of Hazardous Materials, 2022, 436, 129114.	12.4	14
88	Synthesis and characterisation of non-ionic AB-diblock nanoparticles prepared by RAFT dispersion polymerization with polymerization-induced self-assembly. RSC Advances, 2016, 6, 28130-28139.	3.6	13
89	Interfacial interactions between Skeletonema costatum extracellular organic matter and metal oxides: Implications for ceramic membrane filtration. Water Research, 2017, 116, 194-202.	11.3	13
90	Colloidal stability of capped silver nanoparticles in natural organic matter-containing electrolyte solutions. NanoImpact, 2020, 19, 100242.	4.5	13

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91	500 days of swimmers: the chemical water quality of swimming pool waters from the beginning. Environmental Science and Pollution Research, 2019, 26, 29110-29126.	5.3	12
92	Hydrophilic interaction liquid chromatography method for measuring the composition of aquatic humic substances. Analytica Chimica Acta, 2015, 853, 608-616.	5.4	10
93	Enhanced Chlorine Dioxide Decay in the Presence of Metal Oxides: Relevance to Drinking Water Distribution Systems. Environmental Science & Technology, 2013, 47, 130719133951006.	10.0	9
94	Small Scale Direct Potable Reuse (DPR) Project for a Remote Area. Water (Switzerland), 2017, 9, 94.	2.7	9
95	Analysis of aquaticâ€phase natural organic matter by optimized LDIâ€MS method. Journal of Mass Spectrometry, 2014, 49, 154-160.	1.6	7
96	Impact of operation conditions, foulant adsorption, and chemical cleaning on the nanomechanical properties of ultrafiltration hollow fiber membranes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 549, 34-42.	4.7	6
97	Modification Mechanism of Polyamide Reverse Osmosis Membrane by Persulfate: Roles of Hydroxyl and Sulfate Radicals. Environmental Science & Technology, 2022, 56, 8864-8874.	10.0	6
98	Molecular-level investigation into UV-induced transformation of hydrophobic aquatic dissolved organic matter. Science of the Total Environment, 2022, 842, 156959.	8.0	6
99	Cross-sectional analysis of fouled SWRO membranes by STEMâ€“EDS. Desalination, 2014, 333, 118-125.	8.2	5
100	Characterization of Skeletonema costatum intracellular organic matter and study of nanomechanical properties under different solution conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 154-161.	4.7	5
101	Effect of copper oxide on monochloramine decomposition in bromide-containing waters. Science of the Total Environment, 2021, 765, 142519.	8.0	4
102	Complete Genome Sequence of Stenotrophomonas maltophilia AB550, an Environmental Solar Radiation- and Multidrug-Resistant Strain Isolated in Western Australia. Microbiology Resource Announcements, 2018, 7, .	0.6	2
103	Interactions between model organic compounds and metal oxides. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126858.	4.7	2