

# Jean-Philippe Croue

## List of Publications by Year in descending order

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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	Enhanced peroxymonosulfate activation by Cu-doped LaFeO <sub>3</sub> with rich oxygen vacancies: Compound-specific mechanisms. <i>Chemical Engineering Journal</i> , 2022, 435, 134882.	12.7	48
2	Inputs of disinfection by-products to the marine environment from various industrial activities: Comparison to natural production. <i>Water Research</i> , 2022, 217, 118383.	11.3	18
3	Genotoxic effects of chlorinated disinfection by-products of 1,3-diphenylguanidine (DPG): Cell-based in-vitro testing and formation potential during water disinfection. <i>Journal of Hazardous Materials</i> , 2022, 436, 129114.	12.4	14
4	Modification Mechanism of Polyamide Reverse Osmosis Membrane by Persulfate: Roles of Hydroxyl and Sulfate Radicals. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8864-8874.	10.0	6
5	Molecular-level investigation into UV-induced transformation of hydrophobic aquatic dissolved organic matter. <i>Science of the Total Environment</i> , 2022, 842, 156959.	8.0	6
6	Effect of copper oxide on monochloramine decomposition in bromide-containing waters. <i>Science of the Total Environment</i> , 2021, 765, 142519.	8.0	4
7	Removal of pharmaceutical and personal care products (PPCPs) from wastewater using microalgae: A review. <i>Journal of Hazardous Materials</i> , 2021, 403, 124041.	12.4	262
8	Importance of origin and characteristics of biopolymers in reversible and irreversible fouling of ultrafiltration membranes. <i>Science of the Total Environment</i> , 2021, 784, 147157.	8.0	18
9	Interactions between model organic compounds and metal oxides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126858.	4.7	2
10	Impact of EfOM in the elimination of PPCPs by UV/chlorine: Radical chemistry and toxicity bioassays. <i>Water Research</i> , 2021, 204, 117634.	11.3	20
11	Molecular insights into the reactivity of aquatic natural organic matter towards hydroxyl (•OH) and sulfate (SO <sub>4</sub> • <sup>-</sup> ) radicals using FT-ICR MS. <i>Chemical Engineering Journal</i> , 2021, 425, 130622.	12.7	33
12	Removal of metronidazole from aqueous media by <i>C. vulgaris</i> . <i>Journal of Hazardous Materials</i> , 2020, 384, 121400.	12.4	65
13	Reactivity of unactivated peroxymonosulfate with nitrogenous compounds. <i>Water Research</i> , 2020, 169, 115221.	11.3	45
14	Colloidal stability of capped silver nanoparticles in natural organic matter-containing electrolyte solutions. <i>NanoImpact</i> , 2020, 19, 100242.	4.5	13
15	Comparison of the impact of ozone, chlorine dioxide, ferrate and permanganate pre-oxidation on organic disinfection byproduct formation during post-chlorination. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2382-2395.	2.4	16
16	Impact of DOM source and character on the degradation of primidone by UV/chlorine: Reaction kinetics and disinfection by-product formation. <i>Water Research</i> , 2020, 172, 115463.	11.3	35
17	Hydroxyl and sulfate radical-based oxidation of RhB dye in UV/H <sub>2</sub> O <sub>2</sub> and UV/persulfate systems: Kinetics, mechanisms, and comparison. <i>Chemosphere</i> , 2020, 253, 126655.	8.2	102
18	SO <sub>4</sub> • <sup>-</sup> -based catalytic ceramic UF membrane for organics removal and flux restoration. <i>Chemical Engineering Journal</i> , 2020, 398, 125600.	12.7	18

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19	Degradation and deactivation of a plasmid-encoded extracellular antibiotic resistance gene during separate and combined exposures to UV254 and radicals. <i>Water Research</i> , 2020, 182, 115921.	11.3	50
20	Sunlight-induced phototransformation of transphilic and hydrophobic fractions of Suwannee River dissolved organic matter. <i>Science of the Total Environment</i> , 2019, 694, 133737.	8.0	14
21	500 days of swimmers: the chemical water quality of swimming pool waters from the beginning. <i>Environmental Science and Pollution Research</i> , 2019, 26, 29110-29126.	5.3	12
22	Reactivity of chromophoric dissolved organic matter (CDOM) to sulfate radicals: Reaction kinetics and structural transformation. <i>Water Research</i> , 2019, 163, 114846.	11.3	33
23	Catalytic ozonation of emerging pollutant and reduction of toxic by-products in secondary effluent matrix and effluent organic matter. Reaction activity. <i>Water Research</i> , 2019, 166, 115026.	11.3	38
24	Photochemical production of hydroxyl radical from algal organic matter. <i>Water Research</i> , 2019, 161, 11-16.	11.3	32
25	Occurrence of disinfection by-products in swimming pools and the estimated resulting cytotoxicity. <i>Science of the Total Environment</i> , 2019, 664, 851-864.	8.0	34
26	Survival of antibiotic resistant bacteria following artificial solar radiation of secondary wastewater effluent. <i>Science of the Total Environment</i> , 2018, 626, 1005-1011.	8.0	17
27	Impact of brominated amines on monochloramine stability during in-line and pre-formed chloramination assessed by kinetic modelling. <i>Science of the Total Environment</i> , 2018, 618, 1431-1439.	8.0	19
28	Impact of operation conditions, foulant adsorption, and chemical cleaning on the nanomechanical properties of ultrafiltration hollow fiber membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 549, 34-42.	4.7	6
29	A novel catalytic ceramic membrane fabricated with CuMn <sub>2</sub> O <sub>4</sub> particles for emerging UV absorbers degradation from aqueous and membrane fouling elimination. <i>Journal of Hazardous Materials</i> , 2018, 344, 1229-1239.	12.4	56
30	Complete Genome Sequence of <i>Stenotrophomonas maltophilia</i> AB550, an Environmental Solar Radiation- and Multidrug-Resistant Strain Isolated in Western Australia. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	2
31	In Situ Formation of Free Chlorine During ClO <sub>2</sub> Treatment: Implications on the Formation of Disinfection Byproducts. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13421-13429.	10.0	66
32	Characterisation of dissolved organic matter using Fourier-transform ion cyclotron resonance mass spectrometry: Type-specific unique signatures and implications for reactivity. <i>Science of the Total Environment</i> , 2018, 644, 68-76.	8.0	29
33	The characteristics of organic matter influence its interfacial interactions with MnO <sub>2</sub> and catalytic oxidation processes. <i>Chemosphere</i> , 2018, 209, 950-959.	8.2	17
34	Excited Triplet State Interactions of Fluoroquinolone Norfloxacin with Natural Organic Matter: A Laser Spectroscopy Study. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10426-10432.	10.0	31
35	Removal of trace organic chemicals in wastewater effluent by UV/H <sub>2</sub> O <sub>2</sub> and UV/PDS. <i>Water Research</i> , 2018, 145, 487-497.	11.3	124
36	Method Development for Quantification of Bromochloramine Using Membrane Introduction Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7805-7812.	10.0	19

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37	Organic matter interactions with natural manganese oxide and synthetic birnessite. <i>Science of the Total Environment</i> , 2017, 583, 487-495.	8.0	68
38	Chloramination of wastewater effluent: Toxicity and formation of disinfection byproducts. <i>Journal of Environmental Sciences</i> , 2017, 58, 135-145.	6.1	67
39	Interactions of phosphate solubilising microorganisms with natural rare-earth phosphate minerals: a study utilizing Western Australian monazite. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 929-942.	3.4	49
40	Interfacial interactions between <i>Skeletonema costatum</i> extracellular organic matter and metal oxides: Implications for ceramic membrane filtration. <i>Water Research</i> , 2017, 116, 194-202.	11.3	13
41	Formation of Haloacetonitriles, Haloacetamides, and Nitrogenous Heterocyclic Byproducts by Chloramination of Phenolic Compounds. <i>Environmental Science &amp; Technology</i> , 2017, 51, 655-663.	10.0	71
42	Chlorination or monochloramination: Balancing the regulated trihalomethane formation and microbial inactivation in marine aquaculture waters. <i>Aquaculture</i> , 2017, 480, 94-102.	3.5	25
43	Photodegradation of sulfathiazole under simulated sunlight: Kinetics, photo-induced structural rearrangement, and antimicrobial activities of photoproducts. <i>Water Research</i> , 2017, 124, 576-583.	11.3	41
44	Small Scale Direct Potable Reuse (DPR) Project for a Remote Area. <i>Water (Switzerland)</i> , 2017, 9, 94.	2.7	9
45	Seasonal variation of organic matter concentration and characteristics in the Maji ya Chai River (Tanzania): Impact on treatability by ultrafiltration. <i>Water Research</i> , 2016, 101, 370-381.	11.3	29
46	Influence of Surface Properties of Filtration-Layer Metal Oxide on Ceramic Membrane Fouling during Ultrafiltration of Oil/Water Emulsion. <i>Environmental Science &amp; Technology</i> , 2016, 50, 4668-4674.	10.0	123
47	Roles of singlet oxygen and dissolved organic matter in self-sensitized photo-oxidation of antibiotic norfloxacin under sunlight irradiation. <i>Water Research</i> , 2016, 106, 214-222.	11.3	115
48	Photodecomposition of iodinated contrast media and subsequent formation of toxic iodinated moieties during final disinfection with chlorinated oxidants. <i>Water Research</i> , 2016, 103, 453-461.	11.3	32
49	Characterization of <i>Skeletonema costatum</i> intracellular organic matter and study of nanomechanical properties under different solution conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 154-161.	4.7	5
50	Investigation of severe UF membrane fouling induced by three marine algal species. <i>Water Research</i> , 2016, 93, 10-19.	11.3	23
51	Synthesis and characterisation of non-ionic AB-diblock nanoparticles prepared by RAFT dispersion polymerization with polymerization-induced self-assembly. <i>RSC Advances</i> , 2016, 6, 28130-28139.	3.6	13
52	Formation of Bromate and Halogenated Disinfection Byproducts during Chlorination of Bromide-Containing Waters in the Presence of Dissolved Organic Matter and CuO. <i>Environmental Science &amp; Technology</i> , 2016, 50, 135-144.	10.0	48
53	The role of aromatic precursors in the formation of haloacetamides by chloramination of dissolved organic matter. <i>Water Research</i> , 2016, 88, 371-379.	11.3	49
54	Tracing disinfection byproducts in full-scale desalination plants. <i>Desalination</i> , 2015, 359, 141-148.	8.2	43

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55	Changes in Physicochemical and Transport Properties of a Reverse Osmosis Membrane Exposed to Chloraminated Seawater. <i>Environmental Science &amp; Technology</i> , 2015, 49, 2301-2309.	10.0	26
56	Citrate-Coated Silver Nanoparticles Interactions with Effluent Organic Matter: Influence of Capping Agent and Solution Conditions. <i>Langmuir</i> , 2015, 31, 8865-8872.	3.5	41
57	Natural organic matter interactions with polyamide and polysulfone membranes: Formation of conditioning film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 477, 1-8.	4.7	25
58	Hydrophilic interaction liquid chromatography method for measuring the composition of aquatic humic substances. <i>Analytica Chimica Acta</i> , 2015, 853, 608-616.	5.4	10
59	Photobleaching-induced changes in photosensitizing properties of dissolved organic matter. <i>Water Research</i> , 2014, 66, 140-148.	11.3	54
60	Formation of Brominated Disinfection Byproducts from Natural Organic Matter Isolates and Model Compounds in a Sulfate Radical-Based Oxidation Process. <i>Environmental Science &amp; Technology</i> , 2014, 48, 14534-14542.	10.0	139
61	Analysis of aquatic phase natural organic matter by optimized LDI-MS method. <i>Journal of Mass Spectrometry</i> , 2014, 49, 154-160.	1.6	7
62	Catalytic ozonation not relying on hydroxyl radical oxidation: A selective and competitive reaction process related to metal-carboxylate complexes. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 831-839.	20.2	52
63	How different is the composition of the fouling layer of wastewater reuse and seawater desalination RO membranes?. <i>Water Research</i> , 2014, 59, 271-282.	11.3	108
64	Membrane fouling mechanism transition in relation to feed water composition. <i>Journal of Membrane Science</i> , 2014, 471, 265-273.	8.2	16
65	Chlorination of Iodide-Containing Waters in the Presence of CuO: Formation of Periodate. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13173-13180.	10.0	27
66	Contribution of effluent organic matter (EfOM) to ultrafiltration (UF) membrane fouling: Isolation, characterization, and fouling effect of EfOM fractions. <i>Water Research</i> , 2014, 65, 414-424.	11.3	114
67	Efficient Peroxydisulfate Activation Process Not Relying on Sulfate Radical Generation for Water Pollutant Degradation. <i>Environmental Science &amp; Technology</i> , 2014, 48, 5868-5875.	10.0	634
68	Cross-sectional analysis of fouled SWRO membranes by STEM-EDS. <i>Desalination</i> , 2014, 333, 118-125.	8.2	5
69	Effects of charging on the chromophores of dissolved organic matter from the Rio Negro basin. <i>Water Research</i> , 2014, 59, 154-164.	11.3	36
70	Enhanced Chlorine Dioxide Decay in the Presence of Metal Oxides: Relevance to Drinking Water Distribution Systems. <i>Environmental Science &amp; Technology</i> , 2013, 47, 130719133951006.	10.0	9
71	Production of Sulfate Radical from Peroxymonosulfate Induced by a Magnetically Separable CuFe <sub>2</sub> O <sub>4</sub> Spinel in Water: Efficiency, Stability, and Mechanism. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2784-2791.	10.0	960
72	Roles of singlet oxygen and triplet excited state of dissolved organic matter formed by different organic matters in bacteriophage MS2 inactivation. <i>Water Research</i> , 2013, 47, 4869-4879.	11.3	98

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73	Sunlight-Induced Inactivation of Human Wa and Porcine OSU Rotaviruses in the Presence of Exogenous Photosensitizers. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11004-11012.	10.0	29
74	Source water quality shaping different fouling scenarios in a full-scale desalination plant at the Red Sea. <i>Water Research</i> , 2013, 47, 558-568.	11.3	70
75	Effect of IX dosing on polypropylene and PVDF membrane fouling control. <i>Water Research</i> , 2013, 47, 3827-3834.	11.3	16
76	Chlorination of bromide-containing waters: Enhanced bromate formation in the presence of synthetic metal oxides and deposits formed in drinking water distribution systems. <i>Water Research</i> , 2013, 47, 5307-5315.	11.3	41
77	Identification of effluent organic matter fractions responsible for low-pressure membrane fouling. <i>Water Research</i> , 2012, 46, 5531-5540.	11.3	108
78	Formation of NDMA and Halogenated DBPs by Chloramination of Tertiary Amines: The Influence of Bromide Ion. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1581-1589.	10.0	109
79	Characterization of humic acid reactivity modifications due to adsorption onto $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Water Research</i> , 2012, 46, 731-740.	11.3	50
80	NDMA Formation by Chloramination of Ranitidine: Kinetics and Mechanism. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11095-11103.	10.0	105
81	Enhanced Bromate Formation during Chlorination of Bromide-Containing Waters in the Presence of CuO: Catalytic Disproportionation of Hypobromous Acid. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11054-11061.	10.0	79
82	A non-acid-assisted and non-hydroxyl-radical-related catalytic ozonation with ceria supported copper oxide in efficient oxalate degradation in water. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 88-94.	20.2	108
83	Catalytic Ozonation of Oxalate with a Cerium Supported Palladium Oxide: An Efficient Degradation Not Relying on Hydroxyl Radical Oxidation. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9339-9346.	10.0	146
84	Chloramination of nitrogenous contaminants (pharmaceuticals and pesticides): NDMA and halogenated DBPs formation. <i>Water Research</i> , 2011, 45, 3164-3174.	11.3	168
85	Photodegradation of estrone enhanced by dissolved organic matter under simulated sunlight. <i>Water Research</i> , 2011, 45, 3341-3350.	11.3	77
86	Characterization of the colloidal organic matter from the Amazonian basin by asymmetrical flow field-flow fractionation and size exclusion chromatography. <i>Water Research</i> , 2010, 44, 223-231.	11.3	30
87	Formation of methyl iodide on a natural manganese oxide. <i>Water Research</i> , 2010, 44, 4623-4629.	11.3	24
88	The formation of halogen-specific TOX from chlorination and chloramination of natural organic matter isolates. <i>Water Research</i> , 2009, 43, 4177-4186.	11.3	125
89	Natural organic matter (NOM) and pesticides removal using a combination of ion exchange resin and powdered activated carbon (PAC). <i>Water Research</i> , 2008, 42, 1635-1643.	11.3	148
90	Haloacetic acid and Trihalomethane Formation from the Chlorination and Bromination of Aliphatic $\alpha$ -Dicarbonyl Acid Model Compounds. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3226-3233.	10.0	110

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91	Combination of coagulation and ion exchange for the reduction of UF fouling properties of a high DOC content surface water. <i>Water Research</i> , 2007, 41, 3803-3811.	11.3	119
92	Thermal release of nitrogen organics from natural organic matter using micro scale sealed vessel pyrolysis. <i>Organic Geochemistry</i> , 2007, 38, 1073-1090.	1.8	28
93	Low-pressure membrane (MF/UF) fouling associated with allochthonous versus autochthonous natural organic matter. <i>Water Research</i> , 2006, 40, 2357-2368.	11.3	184
94	Morphological analyses of natural organic matter (NOM) fouling of low-pressure membranes (MF/UF). <i>Journal of Membrane Science</i> , 2005, 261, 7-16.	8.2	78
95	Performance of selected anion exchange resins for the treatment of a high DOC content surface water. <i>Water Research</i> , 2005, 39, 1699-1708.	11.3	164
96	Modeling monochloramine loss in the presence of natural organic matter. <i>Water Research</i> , 2005, 39, 3418-3431.	11.3	98
97	Comparative study of two fractions of riverine dissolved organic matter using various analytical pyrolytic methods and a <sup>13</sup> C CP/MAS NMR approach. <i>Organic Geochemistry</i> , 2005, 36, 1418-1442.	1.8	63
98	Isolation of Humic and Non-Humic NOM Fractions: Structural Characterization. <i>Environmental Monitoring and Assessment</i> , 2004, 92, 193-207.	2.7	90
99	Modeling of bromate formation by ozonation of surface waters in drinking water treatment. <i>Water Research</i> , 2004, 38, 2185-2195.	11.3	67
100	Identification and understanding of fouling in low-pressure membrane (MF/UF) filtration by natural organic matter (NOM). <i>Water Research</i> , 2004, 38, 4511-4523.	11.3	500
101	Peer Reviewed: Characterizing Aquatic Dissolved Organic Matter. <i>Environmental Science &amp; Technology</i> , 2003, 37, 18A-26A.	10.0	1,027
102	Fouling characteristics of wastewater effluent organic matter (EfOM) isolates on NF and UF membranes. <i>Desalination</i> , 2002, 145, 247-255.	8.2	320
103	Comprehensive Isolation of Natural Organic Matter from Water for Spectral Characterizations and Reactivity Testing. <i>ACS Symposium Series</i> , 2000, , 68-83.	0.5	84