benoit Teychene

List of Publications by Citations

30 papers	429 citations	12 h-index	20 g-index
31 ext. papers	487 ext. citations	6.8 avg, IF	3.88 L-index

#	Paper	IF	Citations
30	Efficient removal of As(III) by Cu nanoparticles intercalated in carbon nanotube membranes for drinking water treatment. *Chemical Engineering Journal*, **2019**, 355, 341-350	14.7	57
29	Engineering of an MBR supernatant fouling layer by fine particles addition: a possible way to control cake compressibility. *Water Research*, **2011**, 45, 2060-72	12.5	40
28	A comparative study of boron and arsenic (III) rejection from brackish water by reverse osmosis membranes. *Desalination*, **2013**, 310, 109-114	10.3	39
27	Toward a better identification of foulant species in MBR processes. *Desalination*, **2008**, 231, 27-34	10.3	37
26	Impact of pretreatment conditions and chemical ageing on ultrafiltration membrane performances. Diagnostic of a coagulation/adsorption/filtration process. *Journal of Membrane Science*, **2015**, 489, 284-291	9.6	32
25	Characteristics and fouling behaviors of Dissolved Organic Matter fractions in a full-scale submerged membrane bioreactor for municipal wastewater treatment. *Biochemical Engineering Journal*, **2018**, 132, 169-181	4.2	23
24	Generating backwashable carbon nanotube mats on the inner surface of polymeric hollow fiber membranes. *Journal of Membrane Science*, **2013**, 446, 59-67	9.6	19
23	Development and use of a novel method for in line characterisation of fouling layers electrokinetic properties and for fouling monitoring. *Journal of Membrane Science*, **2011**, 370, 45-57	9.6	19
22	Determination of bisphenol A in water and the medical devices used in hemodialysis treatment. *International Journal of Pharmaceutics*, **2016**, 505, 115-21	6.5	19
21	Modeling of combined particles and natural organic matter fouling of ultrafiltration membrane. *Journal of Membrane Science*, **2016**, 505, 185-193	9.6	16
20	Aluminum-humic colloid formation during pre-coagulation for membrane water treatment: mechanisms and impacts. *Water Research*, **2014**, 61, 171-80	12.5	16
19	Ultrafiltration of biologically treated domestic wastewater: How membrane properties influence performance. *Separation and Purification Technology*, **2014**, 134, 178-186	8.3	13
18	Emerging investigator series: photocatalysis for MBR effluent post-treatment: assessing the effects of effluent organic matter characteristics. *Environmental Science: Water Research and Technology*, **2019**, 5, 482-494	4.2	11
17	Impact of e-beam irradiation of municipal secondary effluent on MF and RO membranes performances. *Journal of Membrane Science*, **2014**, 471, 1-8	9.6	11
16	Predicting of ultrafiltration performances by advanced data analysis. *Water Research*, **2018**, 129, 365-374	12.5	11
15	Investigation of Poly(ethersulfone)/Polyvinylpyrrolidone ultrafiltration membrane degradation by contact with sodium hypochlorite through FTIR mapping and two-dimensional correlation spectroscopy. *Polymer Degradation and Stability*, **2019**, 161, 131-138	4.7	10
14	Modification of tubular ceramic membranes with carbon nanotubes using catalytic chemical vapor deposition. *Water Science and Technology*, **2015**, 72, 1404-10	2.2	9

List of Publications

13	Improved quantitative analysis of molecular constituents of wastewater sludge pellets using double-shot thermochemolysis-GCMS. *Journal of Analytical and Applied Pyrolysis*, **2015**, 114, 265-272	6	7
12	3D printed microchannel loaded with hematite nanoadsorbent for fluoride removal from water. *Materials Letters*, **2019**, 254, 190-193	3.3	7
11	Effect of hydrodynamic diameter on the sieving of waterborne carbon nanotubes by porous membranes. *Journal of Membrane Science*, **2014**, 470, 470-478	9.6	7
10	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	5.1	5
9	Changes in Wastewater Sludge Characteristics Submitted to Thermal Drying, E-beam Irradiation or Anaerobic Digestion. *Waste and Biomass Valorization*, **2017**, 8, 1771-1780	3.2	4
8	Electron beam irradiation of polyvinylidene fluoride/polyvinylpyrrolidone ultrafiltration membrane in presence of zwitterions molecules evaluation of filtration performances. *Radiation Physics and Chemistry*, **2019**, 159, 101-110	2.5	4
7	Elimination of Fluoride, Arsenic, and Nitrate from Water Through Adsorption onto Nano-adsorbent: A Review. *Current Nanoscience*, **2019**, 15, 557-575	1.4	4
6	Filterability of exopolysaccharides solutions from the red microalga by tangential filtration on a polymeric membrane. *Environmental Technology (United Kingdom)*, **2020**, 41, 1167-1184	2.6	4
5	Carbon nanotube composite membranes for small designer water treatment systems. *Water Science and Technology: Water Supply*, **2014**, 14, 917-923	1.4	2
4	Advanced tools for fluid and fouling layer characterization applied to the description of membrane fouling phenomena for particle-organic matter mixtures. *Canadian Journal of Chemical Engineering*, **2015**, 93, 249-260	2.3	1
3	Impact of C-CVD synthesis conditions on the hydraulic and electronic properties of SiC/CNTs nanocomposite microfiltration membranes. *Diamond and Related Materials*, **2021**, 120, 108611	3.5	0
2	Backwashable dynamic membrane made of anchored CNT on SiC microfiltration membranes applied to oil in water emulsion filtration. *Separation and Purification Technology*, **2022**, 278, 119566	8.3	0
1	Membrane processes for wastewater remediation **2020**, 175-211		