

# Stephan Brosillon

## List of Publications by Year in descending order

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56  
papers

2,448  
citations

185998  
28  
h-index

197535  
49  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3156  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic degradation of azo-dyes reactive black 5 and reactive yellow 145 in water over a newly deposited titanium dioxide. <i>Applied Catalysis B: Environmental</i> , 2005, 57, 55-62.	10.8	176
2	High performance PVDF-TiO <sub>2</sub> membranes for water treatment. <i>Chemical Engineering Science</i> , 2015, 123, 283-291.	1.9	143
3	Ultra-pressure liquid chromatography-electrospray tandem mass spectrometry for multiresidue determination of pesticides in water. <i>Journal of Chromatography A</i> , 2008, 1202, 163-172.	1.8	142
4	Mass Transfer in VOC Adsorption on Zeolite: Experimental and Theoretical Breakthrough Curves. <i>Environmental Science &amp; Technology</i> , 2001, 35, 3571-3575.	4.6	121
5	Removal of antibiotics by an integrated process coupling photocatalysis and biological treatment – Case of tetracycline and tylosin. <i>International Biodeterioration and Biodegradation</i> , 2011, 65, 997-1003.	1.9	110
6	Gas phase photocatalysis and liquid phase photocatalysis: Interdependence and influence of substrate concentration and photon flow on degradation reaction kinetics. <i>Applied Catalysis B: Environmental</i> , 2008, 78, 232-241.	10.8	101
7	Influence of ionic strength in the adsorption and during photocatalysis of reactive black 5 azo dye on TiO <sub>2</sub> coated on non woven paper with SiO <sub>2</sub> as a binder. <i>Journal of Hazardous Materials</i> , 2008, 150, 250-256.	6.5	95
8	Catalytic ozonation with Al <sub>2</sub> O <sub>3</sub> to enhance the degradation of refractory organics in water. <i>Applied Catalysis A: General</i> , 2015, 504, 519-532.	2.2	91
9	Improved antifouling properties of TiO <sub>2</sub> /PVDF nanocomposite membranes in UV-coupled ultrafiltration. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	77
10	Nanofiltration for wastewater reuse: Counteractive effects of fouling and matrice on the rejection of pharmaceutical active compounds. <i>Separation and Purification Technology</i> , 2014, 133, 313-327.	3.9	76
11	Coupling catalytic ozonation and membrane separation: A review. <i>Separation and Purification Technology</i> , 2020, 236, 116221.	3.9	76
12	Hydrophilic composite membranes for simultaneous separation and photocatalytic degradation of organic pollutants. <i>Separation and Purification Technology</i> , 2013, 111, 9-19.	3.9	73
13	Arsenic in African Waters: A Review. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	69
14	Effect of chlorination on the formation of odorous disinfection by-products. <i>Water Research</i> , 2005, 39, 2636-2642.	5.3	67
15	Solar photocatalysis treatment of phytosanitary refuses: Efficiency of industrial photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2012, 115-116, 38-44.	10.8	66
16	Glass foams for environmental applications. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2562-2568.	1.5	63
17	Photocatalytic degradation of a phenylurea, chlortoluron, in water using an industrial titanium dioxide coated media. <i>Applied Catalysis B: Environmental</i> , 2005, 61, 227-235.	10.8	59
18	Evidence of solute-solute interactions and cake enhanced concentration polarization during removal of pharmaceuticals from urban wastewater by nanofiltration. <i>Water Research</i> , 2016, 104, 156-167.	5.3	57

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19	Photocatalytic degradation of a triazole pesticide, cyproconazole, in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 188, 34-42.	2.0	56
20	Evaluation of the intermediates generated during the degradation of Diuron and Linuron herbicides by the photo-Fenton reaction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 364-373.	2.0	53
21	Analysis and occurrence of odorous disinfection by-products from chlorination of amino acids in three different drinking water treatment plants and corresponding distribution networks. <i>Chemosphere</i> , 2009, 77, 1035-1042.	4.2	51
22	Benefits of ozonation before activated carbon adsorption for the removal of organic micropollutants from wastewater effluents. <i>Chemosphere</i> , 2020, 245, 125530.	4.2	49
23	Odorous Products of the Chlorination of Phenylalanine in Water: Formation, Evolution, and Quantification. <i>Environmental Science &amp; Technology</i> , 2004, 38, 4134-4139.	4.6	47
24	Photocatalytic Membrane Reactor for the Removal of C.I. Disperse Red 73. <i>Materials</i> , 2015, 8, 3633-3647.	1.3	38
25	Photocatalysis as a pre-treatment prior to a biological degradation of cyproconazole. <i>Desalination</i> , 2011, 281, 61-67.	4.0	32
26	Solar photocatalytic mineralization of 2,4-dichlorophenol and mixtures of pesticides: Kinetic model of mineralization. <i>Solar Energy</i> , 2013, 87, 127-135.	2.9	32
27	Ozonation using hollow fiber contactor technology and its perspectives for micropollutants removal in water: A review. <i>Science of the Total Environment</i> , 2020, 729, 138664.	3.9	31
28	Investigation of the mechanism of chlorination of glyphosate and glycine in water. <i>Water Research</i> , 2006, 40, 3003-3014.	5.3	30
29	Urban wastewater reuse using a coupling between nanofiltration and ozonation: Techno-economic assessment. <i>Chemical Engineering Research and Design</i> , 2019, 145, 19-28.	2.7	30
30	Synthesis of binderless zeolite aggregates (SOD, LTA, FAU) beads of 10, 70 and 1 mm by direct pseudomorphic transformation. <i>Microporous and Mesoporous Materials</i> , 2013, 176, 145-154.	2.2	27
31	Ozonation as a pretreatment process for nanofiltration brines: Monitoring of transformation products and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2017, 338, 381-393.	6.5	27
32	Study of photocatalytic degradation of tributyltin, dibutyltin and monobutyltin in water and marine sediments. <i>Chemosphere</i> , 2014, 109, 173-179.	4.2	23
33	Removal of 2,4-dimethylphenol pollutant in water by ozonation catalyzed by SOD, LTA, FAU-X zeolites particles obtained by pseudomorphic transformation (binderless). <i>Microporous and Mesoporous Materials</i> , 2014, 189, 200-209.	2.2	22
34	Influence of volumetric reduction factor during ozonation of nanofiltration concentrates for wastewater reuse. <i>Chemosphere</i> , 2016, 165, 497-506.	4.2	22
35	Functionalized ceramic nanofilter for wastewater treatment by coupling membrane separation and catalytic ozonation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104043.	3.3	20
36	Chlorination kinetics of glyphosate and its by-products: Modeling approach. <i>Water Research</i> , 2006, 40, 2113-2124.	5.3	19

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37	Influence of solution pH on the performance of photocatalytic membranes during dead-end filtration. Separation and Purification Technology, 2013, 118, 406-414.	3.9	19
38	Integration of photocatalysis and biological treatment for azo dye removal – application to AR183. Environmental Technology (United Kingdom), 2011, 32, 507-514.	1.2	18
39	Insight into photochemical oxidation of Fenuron in water using iron oxide and oxalate: The roles of the dissolved oxygen. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 329, 120-129.	2.0	17
40	Study of permeate flux behavior during photo-filtration using photocatalytic composite membranes. Chemical Engineering and Processing: Process Intensification, 2020, 148, 107781.	1.8	16
41	Oxidative photodegradation of herbicide fenuron in aqueous solution by natural iron oxide $\text{Fe}_2\text{O}_3$ , influence of polycarboxylic acids. Environmental Technology (United Kingdom), 2011, 32, 507-514.	1.2	18
42	$\text{M}^x\text{-Doped TiO}_2$ and $\text{TiO}_2$ Mixed Oxides (M = V, Bi, W) by Reactive Mineralization of Cellulose – Evaluation of Their Photocatalytic Activity. European Journal of Inorganic Chemistry, 2016, 2016, 1200-1205.	1.0	12
43	Coupling of photocatalytic and separation processes as a contribution to mineralization of wastewater. Chemical Engineering and Processing: Process Intensification, 2018, 134, 115-123.	1.8	12
44	Effect of hydrodynamics during sol-gel synthesis of $\text{TiO}_2$ nanoparticles: From morphology to photocatalytic properties. Chemical Engineering Research and Design, 2013, 91, 2389-2400.	2.7	11
45	Influence of Preparation Temperature on the Properties and Performance of Composite PVDF- $\text{TiO}_2$ Membranes. Membranes, 2021, 11, 876.	1.4	11
46	Impact of UV-irradiation on the formation of odorous chloroaldimines in drinking water. Chemosphere, 2006, 63, 1660-1666.	4.2	9
47	Evaluation of an ozone diffusion process using a hollow fiber membrane contactor. Chemical Engineering Research and Design, 2022, 177, 291-303.	2.7	9
48	Integrated Process for Degradation of Amitrole in Wastewaters: Photocatalysis/Biodegradation. International Journal of Chemical Reactor Engineering, 2007, 5, .	0.6	7
49	The Reductive Dehydration of Cellulose by Solid/Gas Reaction with $\text{TiCl}_4$ at Low Temperature: A Cheap, Simple, and Green Process for Preparing Anatase Nanoplates and $\text{TiO}_2/\text{C}$ Composites. Chemistry - A European Journal, 2016, 22, 17262-17268.	1.7	6
50	Performance of PVDF- $\text{TiO}_2$ Membranes during Photo-Filtration in the Presence of Inorganic and Organic Components. Membranes, 2022, 12, 245.	1.4	4
51	Impact of Pre-Ozonation during Nanofiltration of MBR Effluent. Membranes, 2022, 12, 341.	1.4	4
52	Pilot-scale integrated process for the treatment of dry-spun acrylic fiber manufacturing wastewater. Desalination and Water Treatment, 2015, 54, 2015-2022.	1.0	3
53	Water Composition and Electrocatalytic Aspects for Efficient Chlorine Generation. Electrocatalysis, 2022, 13, 414-424.	1.5	3
54	Understanding Aging Mechanisms in the Context of UV Irradiation of a Low Fouling and Self-Cleaning PVDF-PVP- $\text{TiO}_2$ Hollow-Fiber Membrane. Membranes, 2022, 12, 538.	1.4	2

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55	Photocatalytic Membrane Reactor. , 2015, , 1-3.		0
56	Photocatalytic Membrane Reactors for Refractory Pollutants Degradation. , 2016, , 1-3.		0