Stephan Brosillon

List of Publications by Year
in descending order

56 papers	2,448 citations	186265 28 h-index	197818 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. Applied Catalysis B: Environmental, 2005, 57, 55-62.	20.2	176
2	High performance PVDF-TiO 2 membranes for water treatment. Chemical Engineering Science, 2015, 123, 283-291.	3.8	143
3	Ultra-pressure liquid chromatographyâ€“electrospray tandem mass spectrometry for multiresidue determination of pesticides in water. Journal of Chromatography A, 2008, 1202, 163-172.	3.7	142
4	Mass Transfer in VOC Adsorption on Zeolite:Â Experimental and Theoretical Breakthrough Curves. Environmental Science & Technology, 2001, 35, 3571-3575.	10.0	121
5	Removal of antibiotics by an integrated process coupling photocatalysis and biological treatment â€“ Case of tetracycline and tylosin. International Biodeterioration and Biodegradation, 2011, 65, 997-1003.	3.9	110
6	Gas phase photocatalysis and liquid phase photocatalysis: Interdependence and influence of substrate concentration and photon flow on degradation reaction kinetics. Applied Catalysis B: Environmental, 2008, 78, 232-241.	20.2	101
7	Influence of ionic strength in the adsorption and during photocatalysis of reactive black 5 azo dye on TiO2 coated on non woven paper with SiO2 as a binder. Journal of Hazardous Materials, 2008, 150, 250-256.	12.4	95
8	Catalytic ozonation with Î³-Al 2 O 3 to enhance the degradation of refractory organics in water. Applied Catalysis A: General, 2015, 504, 519-532.	4.3	91
9	Improved antifouling properties of TiO₂/PVDF nanocomposite membranes in UVâ€coupled ultrafiltration. Journal of Applied Polymer Science, 2015, 132, .	2.6	77
10	Nanofiltration for wastewater reuse: Counteractive effects of fouling and matrice on the rejection of pharmaceutical active compounds. Separation and Purification Technology, 2014, 133, 313-327.	7.9	76
11	Coupling catalytic ozonation and membrane separation: A review. Separation and Purification Technology, 2020, 236, 116221.	7.9	76
12	Hydrophilic composite membranes for simultaneous separation and photocatalytic degradation of organic pollutants. Separation and Purification Technology, 2013, 111, 9-19.	7.9	73
13	Arsenic in African Waters: A Review. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	69
14	Effect of chlorination on the formation of odorous disinfection by-products. Water Research, 2005, 39, 2636-2642.	11.3	67
15	Solar photocatalysis treatment of phytosanitary refuses: Efficiency of industrial photocatalysts. Applied Catalysis B: Environmental, 2012, 115-116, 38-44.	20.2	66
16	Glass foams for environmental applications. Journal of Non-Crystalline Solids, 2010, 356, 2562-2568.	3.1	63
17	Photocatalytic degradation of a phenylurea, chlortoluron, in water using an industrial titanium dioxide coated media. Applied Catalysis B: Environmental, 2005, 61, 227-235.	20.2	59
18	Evidence of solute-solute interactions and cake enhanced concentration polarization during removal of pharmaceuticals from urban wastewater by nanofiltration. Water Research, 2016, 104, 156-167.	11.3	57

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19	Photocatalytic degradation of a triazole pesticide, cyproconazole, in water. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 188, 34-42.	3.9	56
20	Evaluation of the intermediates generated during the degradation of Diuron and Linuron herbicides by the photo-Fenton reaction. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 364-373.	3.9	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. Chemosphere, 2009, 77, 1035-1042.	8.2	51
22	Benefits of ozonation before activated carbon adsorption for the removal of organic micropollutants from wastewater effluents. Chemosphere, 2020, 245, 125530.	8.2	49
23	Odorous Products of the Chlorination of Phenylalanine in Water:Â Formation, Evolution, and Quantification. Environmental Science & Technology, 2004, 38, 4134-4139.	10.0	47
24	Photocatalytic Membrane Reactor for the Removal of C.I. Disperse Red 73. Materials, 2015, 8, 3633-3647.	2.9	38
25	Photocatalysis as a pre-treatment prior to a biological degradation of cyproconazole. Desalination, 2011, 281, 61-67.	8.2	32
26	Solar photocatalytic mineralization of 2,4-dichlorophenol and mixtures of pesticides: Kinetic model of mineralization. Solar Energy, 2013, 87, 127-135.	6.1	32
27	Ozonation using hollow fiber contactor technology and its perspectives for micropollutants removal in water: A review. Science of the Total Environment, 2020, 729, 138664.	8.0	31
28	Investigation of the mechanism of chlorination of glyphosate and glycine in water. Water Research, 2006, 40, 3003-3014.	11.3	30
29	Urban wastewater reuse using a coupling between nanofiltration and ozonation: Techno-economic assessment. Chemical Engineering Research and Design, 2019, 145, 19-28.	5.6	30
30	Synthesis of binderless zeolite aggregates (SOD, LTA, FAU) beads of 10, 70Î¼m and 1mm by direct pseudomorphic transformation. Microporous and Mesoporous Materials, 2013, 176, 145-154.	4.4	27
31	Ozonation as a pretreatment process for nanofiltration brines: Monitoring of transformation products and toxicity evaluation. Journal of Hazardous Materials, 2017, 338, 381-393.	12.4	27
32	Study of photocatalytic degradation of tributyltin, dibutylin and monobutyltin in water and marine sediments. Chemosphere, 2014, 109, 173-179.	8.2	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). Microporous and Mesoporous Materials, 2014, 189, 200-209.	4.4	22
34	Influence of volumetric reduction factor during ozonation of nanofiltration concentrates for wastewater reuse. Chemosphere, 2016, 165, 497-506.	8.2	22
35	Functionalized ceramic nanofilter for wastewater treatment by coupling membrane separation and catalytic ozonation. Journal of Environmental Chemical Engineering, 2020, 8, 104043.	6.7	20
36	Chlorination kinetics of glyphosate and its by-products: Modeling approach. Water Research, 2006, 40, 2113-2124.	11.3	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.	7.9	19
38	Integration of photocatalysis and biological treatment for azo dye removal â€“ application to AR183. Environmental Technology (United Kingdom), 2011, 32, 507-514.	2.2	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.	3.9	17
40	Study of permeate flux behavior during photo-filtration using photocatalytic composite membranes. Chemical Engineering and Processing: Process Intensification, 2020, 148, 107781.	3.6	16
41	Oxidative photodegradation of herbicide fenuron in aqueous solution by natural iron oxide Î±-Fe₂O₃, influence of polycarboxylic acids. Environmental Technology (United) Tj ETQq1 1 0.784314 rgBT	2.2	14
42	MâEDoped TiO₂ and TiO₂â€“M_xO_y Mixed Oxides (M = V, Bi, W) by Reactive Mineralization of Cellulose â€“ Evaluation of Their Photocatalytic Activity. European Journal of Inorganic Chemistry, 2016, 2016, 1200-1205.	2.0	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.	3.6	12
44	Effect of hydrodynamics during solâ€“gel synthesis of TiO2 nanoparticles: From morphology to photocatalytic properties. Chemical Engineering Research and Design, 2013, 91, 2389-2400.	5.6	11
45	Influence of Preparation Temperature on the Properties and Performance of Composite PVDF-TiO2 Membranes. Membranes, 2021, 11, 876.	3.0	11
46	Impact of UV-irradiation on the formation of odorous chloroaldimines in drinking water. Chemosphere, 2006, 63, 1660-1666.	8.2	9
47	Evaluation of an ozone diffusion process using a hollow fiber membrane contactor. Chemical Engineering Research and Design, 2022, 177, 291-303.	5.6	9
48	Integrated Process for Degradation of Amitrole in Wastewaters: Photocatalysis/Biodegradation. International Journal of Chemical Reactor Engineering, 2007, 5, .	1.1	7
49	The Reductive Dehydration of Cellulose by Solid/Gas Reaction with TiCl₄ at Low Temperature: A Cheap, Simple, and Green Process for Preparing Anatase Nanoplates and TiO₂/C Composites. Chemistry - A European Journal, 2016, 22, 17262-17268.	3.3	6
50	Performance of PVDF-TiO2 Membranes during Photo-Filtration in the Presence of Inorganic and Organic Components. Membranes, 2022, 12, 245.	3.0	4
51	Impact of Pre-Ozonation during Nanofiltration of MBR Effluent. Membranes, 2022, 12, 341.	3.0	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.	3.0	3
54	Understanding Aging Mechanisms in the Context of UV Irradiation of a Low Fouling and Self-Cleaning PVDF-PVP-TiO2 Hollow-Fiber Membrane. Membranes, 2022, 12, 538.	3.0	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