Sylwia Mozia

List of Publications by Year
in descending order

100 papers	3,836 citations	81900 39 h-index	128289 60 g-index
104 all docs	104 docs citations	104 times ranked	4084 citing authors

#	Article	IF	Citations
1	Photocatalytic membrane reactors (PMRs) in water and wastewater treatment. A review. Separation and Purification Technology, 2010, 73, 71-91.	7.9	494
2	Removal of organic matter from water by PAC/UF system. Water Research, 2002, 36, 4137-4143.	11.3	169
3	C-,N- and S-Doped TiO2 Photocatalysts: A Review. Catalysts, 2021, 11, 144.	3.5	148
4	The preparation of TiO2â€“nitrogen doped by calcination of TiO2Â·xH2O under ammonia atmosphere for visible light photocatalysis. Solar Energy Materials and Solar Cells, 2005, 88, 269-280.	6.2	120
5	Removal of organic matter by coagulation enhanced with adsorption on PAC. Desalination, 2004, 161, 79-87.	8.2	107
6	Photocatalytic degradation of azo-dye Acid Red 18. Desalination, 2005, 185, 449-456.	8.2	102
7	Preparation of carbon-coated Magneli phases TinO2nâˆ'1 and their photocatalytic activity under visible light. Applied Catalysis B: Environmental, 2009, 88, 160-164.	20.2	99
8	A new photocatalytic membrane reactor (PMR) for removal of azo-dye Acid Red 18 from water. Applied Catalysis B: Environmental, 2005, 59, 131-137.	20.2	92
9	Physico-chemical properties and possible photocatalytic applications of titanate nanotubes synthesized via hydrothermal method. Journal of Physics and Chemistry of Solids, 2010, 71, 263-272.	4.0	89
10	Photocatalytic membrane reactor (PMR) coupling photocatalysis and membrane distillationâ€"Effectiveness of removal of three azo dyes from water. Catalysis Today, 2007, 129, 3-8.	4.4	79
11	Reduction of CO2 by adsorption and reaction on surface of TiO2-nitrogen modified photocatalyst. Journal of CO2 Utilization, 2014, 5, 47-52.	6.8	73
12	Humic acids removal in a photocatalytic membrane reactor with a ceramic UF membrane. Chemical Engineering Journal, 2016, 305, 19-27.	12.7	71
13	Decomposition of nonionic surfactant on a nitrogen-doped photocatalyst under visible-light irradiation. Applied Catalysis B: Environmental, 2005, 55, 195-200.	20.2	70
14	Effect of process parameters on photodegradation of Acid Yellow 36 in a hybrid photocatalysisâ€“membrane distillation system. Chemical Engineering Journal, 2009, 150, 152-159.	12.7	70
15	Comparison of UV/H 2 O 2 , UV/S 2 O 8 2âˆ' , solar/Fe(II)/H 2 O 2 and solar/Fe(II)/S 2 O 8 2âˆ' at pilot plant scale for the elimination of micro-contaminants in natural water: An economic assessment. Chemical Engineering Journal, 2017, 310, 514-524.	12.7	67
16	Cu-modified TiO2 photocatalysts for decomposition of acetic acid with simultaneous formation of C1â€“C3 hydrocarbons and hydrogen. Applied Catalysis B: Environmental, 2013, 140-141, 108-114.	20.2	65
17	Nitrogen, iron-single modified (N-TiO2, Fe-TiO2) and co-modified (Fe,N-TiO2) rutile titanium dioxide as visible-light active photocatalysts. Chemical Engineering Journal, 2013, 225, 358-364.	12.7	65
18	Application of carbon-coated TiO2 for decomposition of methylene blue in a photocatalytic membrane reactor. Journal of Hazardous Materials, 2007, 140, 369-375.	12.4	64

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19	Studies on the effect of humic acids and phenol on adsorptionâ€“ultrafiltration process performance. Water Research, 2005, 39, 501-509.	11.3	62
20	Application of anatase-phase TiO2 for decomposition of azo dye in a photocatalytic membrane reactor. Desalination, 2009, 241, 97-105.	8.2	57
21	Nitrogen-doped, metal-modified rutile titanium dioxide as photocatalysts for water remediation. Applied Catalysis B: Environmental, 2015, 162, 310-318.	20.2	57
22	Overview of Photocatalytic Membrane Reactors in Organic Synthesis, Energy Storage and Environmental Applications. Catalysts, 2019, 9, 239.	3.5	57
23	Treatment of surface water using hybrid processes â€”adsorption on PAC and ultrafiltration. Desalination, 2004, 162, 23-31.	8.2	50
24	Photodegradation of azo dye Acid Red 18 in a quartz labyrinth flow reactor with immobilized TiO2 bed. Dyes and Pigments, 2007, 75, 60-66.	3.7	49
25	Integration of photocatalysis and membrane distillation for removal of mono- and poly-azo dyes from water. Desalination, 2010, 250, 666-672.	8.2	49
26	Performance of two photocatalytic membrane reactors for treatment of primary and secondary effluents. Catalysis Today, 2014, 236, 135-145.	4.4	48
27	The application of moving bed bio-reactor (MBBR) in commercial laundry wastewater treatment. Science of the Total Environment, 2018, 627, 1638-1643.	8.0	48
28	Effectiveness of treatment of secondary effluent from a municipal wastewater treatment plant in a photocatalytic membrane reactor and hybrid UV/H2O2 â€“ ultrafiltration system. Chemical Engineering and Processing: Process Intensification, 2018, 125, 318-324.	3.6	47
29	Hybridization of photocatalysis and membrane distillation for purification of wastewater. Catalysis Today, 2006, 118, 181-188.	4.4	45
30	Photocatalytic generation of useful hydrocarbons and hydrogen from acetic acid in the presence of lanthanide modified TiO2. International Journal of Hydrogen Energy, 2011, 36, 6529-6537.	7.1	45
31	The performance of a hybrid photocatalysisâ€“MD system for the treatment of tap water contaminated with ibuprofen. Catalysis Today, 2012, 193, 213-220.	4.4	45
32	Effect of process parameters on fouling and stability of MF/UF TiO2 membranes in a photocatalytic membrane reactor. Separation and Purification Technology, 2015, 142, 137-148.	7.9	45
33	Integration of photocatalysis with membrane processes for purification of water contaminated with organic dyes. Catalysis Today, 2010, 156, 295-300.	4.4	44
34	A study on the stability of polyethersulfone ultrafiltration membranes in a photocatalytic membrane reactor. Journal of Membrane Science, 2015, 495, 176-186.	8.2	43
35	A system coupling hybrid biological method with UV/O3 oxidation and membrane separation for treatment and reuse of industrial laundry wastewater. Environmental Science and Pollution Research, 2016, 23, 19145-19155.	5.3	43
36	Removal of nonâ€steroidal antiâ€inflammatory drugs from primary and secondary effluents in a photocatalytic membrane reactor. Journal of Chemical Technology and Biotechnology, 2014, 89, 1265-1273.	3.2	42

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37	The influence of feed composition on fouling and stability of a polyethersulfone ultrafiltration membrane in a photocatalytic membrane reactor. Chemical Engineering Journal, 2017, 310, 360-367.	12.7	42
38	Removal of azo-dye Acid Red 18 in two hybrid membrane systems employing a photodegradation process. Desalination, 2006, 198, 183-190.	8.2	41
39	Effectiveness of photodecomposition of an azo dye on a novel anatase-phase TiO2 and two commercial photocatalysts in a photocatalytic membrane reactor (PMR). Separation and Purification Technology, 2008, 63, 386-391.	7.9	41
40	Microscopic studies on TiO2 fouling of MF/UF polyethersulfone membranes in a photocatalytic membrane reactor. Journal of Membrane Science, 2014, 470, 356-368.	8.2	41
41	Application of temperature modified titanate nanotubes for removal of an azo dye from water in a hybrid photocatalysis-MD process. Catalysis Today, 2010, 156, 198-207.	4.4	36
42	Polymeric mixed-matrix membranes modified with halloysite nanotubes for water and wastewater treatment: A review. Separation and Purification Technology, 2021, 256, 117827.	7.9	34
43	Application of an ozonationâ€“adsorptionâ€“ultrafiltration system for surface water treatment. Desalination, 2006, 190, 308-314.	8.2	33
44	Comparison of effectiveness of methylene blue decomposition using pristine and carbon-coated TiO2 in a photocatalytic membrane reactor. Desalination, 2007, 212, 141-151.	8.2	33
45	The influence of physico-chemical properties of TiO2 on photocatalytic generation of C1â€“C3 hydrocarbons and hydrogen from aqueous solution of acetic acid. Applied Catalysis B: Environmental, 2011, 104, 21-29.	20.2	32
46	Performance of hybrid systems coupling advanced oxidation processes and ultrafiltration for oxytetracycline removal. Catalysis Today, 2019, 328, 274-280.	4.4	31
47	Photocatalytic acetic acid decomposition leading to the production of hydrocarbons and hydrogen on Fe-modified TiO2. Catalysis Today, 2011, 161, 189-195.	4.4	28
48	Immobilized TiO₂for Phenol Degradation in a Pilot-Scale Photocatalytic Reactor. Journal of Nanomaterials, 2012, 2012, 1-10.	2.7	27
49	Nanoporous carbons from cypress II. Application to electric double layer capacitors. New Carbon Materials, 2007, 22, 321-326.	6.1	26
50	Low temperature removal of SO2 traces from air by MgO-loaded porous carbons. Chemical Engineering Journal, 2012, 191, 147-153.	12.7	26
51	Preparation of Fe-modified photocatalysts and their application for generation of useful hydrocarbons during photocatalytic decomposition of acetic acid. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 216, 275-282.	3.9	25
52	Alkali-treated titanium dioxide as adsorbent for CO2 capture from air. Microporous and Mesoporous Materials, 2015, 202, 241-249.	4.4	25
53	Decomposition of 3-chlorophenol on nitrogen modified TiO2 photocatalysts. Journal of Hazardous Materials, 2012, 203-204, 128-136.	12.4	24
54	Decomposition of nonionic surfactant in a labyrinth flow photoreactor with immobilized TiO2 bed. Applied Catalysis B: Environmental, 2005, 59, 155-160.	20.2	23

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55	Investigations on the Properties and Performance of Mixed-Matrix Polyethersulfone Membranes Modified with Halloysite Nanotubes. Polymers, 2019, 11, 671.	4.5	22
56	Evaluation of Performance of Hybrid Photolysis-DCMD and Photocatalysis-DCMD Systems Utilizing UV-C Radiation for Removal of Diclofenac Sodium Salt From Water. Polish Journal of Chemical Technology, 2013, 15, 51-60.	0.5	21
57	Influence of Preparation Procedure on Physicochemical and Antibacterial Properties of Titanate Nanotubes Modified with Silver. Nanomaterials, 2019, 9, 795.	4.1	21
58	Preparation, characterization and charge transfer studies of nickel â€“ modified and nickel, nitrogen co-modified rutile titanium dioxide for photocatalytic application. Chemical Engineering Journal, 2014, 239, 149-157.	12.7	20
59	TiO 2 /titanate composite nanorod obtained from various alkali solutions as CO 2 sorbents from exhaust gases. Microporous and Mesoporous Materials, 2016, 231, 117-127.	4.4	17
60	A novel suspended/supported photoreactor design for photocatalytic decomposition of acetic acid with simultaneous production of useful hydrocarbons. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 236, 48-53.	3.9	16
61	Adsorption of carbon dioxide on TEPA-modified TiO₂/titanate composite nanorods. New Journal of Chemistry, 2017, 41, 7870-7885.	2.8	16
62	Influence of Ag/titanate nanotubes on physicochemical, antifouling and antimicrobial properties of mixedâ€matrix polyethersulfone ultrafiltration membranes. Journal of Chemical Technology and Biotechnology, 2019, 94, 2497-2511.	3.2	14
63	Formation of Combustible Hydrocarbons and H2 during Photocatalytic Decomposition of Various Organic Compounds under Aerated and Deaerated Conditions. Molecules, 2014, 19, 19633-19647.	3.8	13
64	Novel polyethersulfone ultrafiltration membranes modified with Cu/titanate nanotubes. Journal of Water Process Engineering, 2020, 33, 101098.	5.6	12
65	Treatment of laundry wastewater by solar photo-Fenton process at pilot plant scale. Environmental Science and Pollution Research, 2021, 28, 8576-8584.	5.3	12
66	Generation of Useful Hydrocarbons and Hydrogen during Photocatalytic Decomposition of Acetic Acid on CuO/Rutile Photocatalysts. International Journal of Photoenergy, 2009, 2009, 1-8.	2.5	11
67	A new submerged photocatalytic membrane reactor based on membrane distillation for ketoprofen removal from various aqueous matrices. Chemical Engineering Journal, 2022, 435, 134872.	12.7	11
68	TiO₂ Supported on Quartz Wool for Photocatalytic Oxidation of Hydrogen Sulphide. Adsorption Science and Technology, 2014, 32, 765-773.	3.2	10
69	Effect of calcination temperature on photocatalytic activity of TiO₂. Photodecomposition of mono- and polyazo dyes in water. Polish Journal of Chemical Technology, 2008, 10, 42-49.	0.5	9
70	Effect of copper salts on the characteristics and antibacterial activity of Cu-modified titanate nanotubes. Journal of Environmental Chemical Engineering, 2020, 8, 104550.	6.7	9
71	Surface water treatment in hybrid systems coupling advanced oxidation processes and ultrafiltration using ceramic membrane. , 0, 64, 302-306.		9
72	Adsorption of humic acid on mesoporous carbons prepared from poly- (ethylene terephthalate) templated with magnesium compounds. Polish Journal of Chemical Technology, 2012, 14, 95-99.	0.5	7

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73	Photocatalytic membrane reactors: fundamentals, membrane materials and operational issues. , 2013, , 236-295.		7
74	Photocatalytic membrane reactors: configurations, performance and applications in water treatment and chemical production. , 2013, , 808-845.		7
75	Hybrid System Coupling Moving Bed Bioreactor with UV/O3 Oxidation and Membrane Separation Units for Treatment of Industrial Laundry Wastewater. Materials, 2020, 13, 2648.	2.9	7
76	Photocatalytic membrane reactors for wastewater treatment. , 2020, , 83-116.		7
77	Nanoporous carbons from cypress I. Preparation and pore structure. New Carbon Materials, 2007, 22, 199-205.	6.1	6
78	Magnetic resonance study of co-modified (Co,N)-TiO₂ nanocomposites. Nukleonika, 2015, 60, 411-416.	0.8	6
79	Application of MBR technology for laundry wastewater treatment. , 0, 64, 213-217.		6
80	Polyethersulfone ultrafiltration membranes modified with hybrid Ag/titanate nanotubes: physicochemical characteristics, antimicrobial properties and fouling resistance. , 0, 128, 106-118.		6
81	Removal of organic pollutants and surfactants from laundry wastewater in membrane bioreactor (MBR). , 0, 134, 281-288.		6
82	Influence of Polymer Solvents on the Properties of Halloysite-Modified Polyethersulfone Membranes Prepared by Wet Phase Inversion. Molecules, 2021, 26, 2768.	3.8	5
83	Influence of sodium dodecyl sulfate on the morphology and performance of titanate nanotubes/polyethersulfone mixed-matrix membranes. , 0, 208, 287-302.		5
84	The use of moving bed bio-reactor to laundry wastewater treatment. E3S Web of Conferences, 2017, 22, 00015.	0.5	4
85	Carbon Materials in Photocatalysis. Chemistry and Physics of Carbon: A Series of Advances, 2012, , 171-268.	0.3	3
86	Temperature study of magnetic resonance spectra of co-modified (Co,N)-TiO2 nanocomposites. Materials Science-Poland, 2016, 34, 242-250.	1.0	3
87	Magnetic Properties of Cobalt and Nitrogen Co-modified Titanium Dioxide Nanocomposites. NATO Science for Peace and Security Series A: Chemistry and Biology, 2016, , 109-125.	0.5	3
88	Integration of Photocatalysis with Ultrafiltration or Membrane Distillation for Removal of Azo Dye Direct Green 99 from Water. Journal of Advanced Oxidation Technologies, 2009, 12, .	0.5	2
89	Degradation of Ibuprofen Sodium Salt in a Hybrid Photolysis â€“ Membrane Distillation System Utilizing Germicidal UVC Lamp. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	2
90	The Influence of Solution Composition on the Effectiveness of Degradation of Ibuprofen Sodium Salt in a Hybrid Photocatalysis â€“ Membrane Distillation System. Journal of Advanced Oxidation Technologies, 2012, 15, .	0.5	2

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91	On photocatalytic membrane reactors in water and wastewater treatment and organic synthesis. Copernican Letters, 0, 6, 17.	0.0	2
92	Possibilities of application of advanced oxidation - membrane separation system for treatment and reuse of laundry wastewater. , 0, 64, 218-222.		2
93	Effect of Calcination Conditions on the Properties and Photoactivity of TiO2 Modified with Biuret. Catalysts, 2021, 11, 1546.	3.5	2
94	Magnetic properties of co-modified Fe,N-TiO2 nanocomposites. Open Physics, 2015, 13, .	1.7	1
95	PMRs Utilizing Pressure-Driven Membrane Techniques. , 2018, , 97-127.		1
96	Editorial Catalysts: Special Issue on Photocatalytic Membrane Reactors. Catalysts, 2020, 10, 962.	3.5	1
97	Influence of the procedure of casting solution preparation on the antimicrobial properties of polyethersulfone membranes modified with titanate nanotubes. , 0, 214, 273-285.		1
98	Investigations on ultrafiltration polyethersulfone membranes modified with titanate nanotubes of various characteristics. , 0, 214, 302-311.		1
99	Influence of MgO nanoparticles on the physiochemical, transport and antimicrobial properties of polyethersulfone membranes. , 0, 128, 199-206.		0
100	Investigation on polyethersulfone membranes modified with Fe3O4 â€“ trisodium citrate nanoparticles. , 0, 128, 265-271.		0