

Agnes Schulze

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,185
citations

257101

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223531

46
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all docs

54
docs citations

54
times ranked

2906
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in nanomaterials for water protection and monitoring. <i>Chemical Society Reviews</i> , 2017, 46, 6946-7020.	18.7	441
2	Biocatalytic Degradation Efficiency of Postconsumer Polyethylene Terephthalate Packaging Determined by Their Polymer Microstructures. <i>Advanced Science</i> , 2019, 6, 1900491.	5.6	181
3	Photoactive microfiltration membranes via directed synthesis of TiO ₂ nanoparticles on the polymer surface for removal of drugs from water. <i>Journal of Membrane Science</i> , 2015, 478, 49-57.	4.1	134
4	Photocatalytic degradation of steroid hormone micropollutants by TiO ₂ -coated polyethersulfone membranes in a continuous flow-through process. <i>Nature Nanotechnology</i> , 2022, 17, 417-423.	15.6	125
5	Degradation of Polyester Polyurethane by Bacterial Polyester Hydrolases. <i>Polymers</i> , 2017, 9, 65.	2.0	116
6	Low-Temperature Synthesis of Anatase/Rutile/Brookite TiO ₂ Nanoparticles on a Polymer Membrane for Photocatalysis. <i>Catalysts</i> , 2017, 7, 209.	1.6	103
7	Nanoneedle and nanotubular titanium dioxide @ PES mixed matrix membrane for photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 456-464.	10.8	58
8	Tailoring Membrane Surface Charges: A Novel Study on Electrostatic Interactions during Membrane Fouling. <i>Polymers</i> , 2015, 7, 2017-2030.	2.0	58
9	Permanent surface modification by electron-beam-induced grafting of hydrophilic polymers to PVDF membranes. <i>RSC Advances</i> , 2013, 3, 22518.	1.7	55
10	Photocatalytic degradation and toxicity evaluation of diclofenac by nanotubular titanium dioxide @ PES membrane in a static and continuous setup. <i>RSC Advances</i> , 2015, 5, 16340-16348.	1.7	50
11	The critical zeta potential of polymer membranes: how electrolytes impact membrane fouling. <i>RSC Advances</i> , 2016, 6, 98180-98189.	1.7	50
12	Electron Beam-Based Functionalization of Poly(ethersulfone) Membranes. <i>Macromolecular Rapid Communications</i> , 2010, 31, 467-472.	2.0	49
13	Synthesis of High Crystalline TiO ₂ Nanoparticles on a Polymer Membrane to Degrade Pollutants from Water. <i>Catalysts</i> , 2018, 8, 376.	1.6	45
14	IBX-Mediated Conversion of Primary Alcohols and Aldehydes to N-Hydroxysuccinimide Esters. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 252-256.	2.1	43
15	Electron Beam-Induced Immobilization of Laccase on Porous Supports for Waste Water Treatment Applications. <i>Molecules</i> , 2014, 19, 11860-11882.	1.7	43
16	Characterisation of electron beam irradiation-immobilised laccase for application in wastewater treatment. <i>Science of the Total Environment</i> , 2018, 624, 309-322.	3.9	41
17	Enzymatic degradation of polyethylene terephthalate nanoplastics analyzed in real time by isothermal titration calorimetry. <i>Science of the Total Environment</i> , 2021, 773, 145111.	3.9	37
18	Electron beam-based functionalization of polymer membranes. <i>Water Science and Technology</i> , 2012, 65, 574-580.	1.2	35

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19	Particle adsorption on a polyether sulfone membrane: how electrostatic interactions dominate membrane fouling. <i>RSC Advances</i> , 2016, 6, 65383-65391.	1.7	33
20	Transparent Low Molecular Weight Poly(Ethylene Glycol) Diacrylate-Based Hydrogels as Film Media for Photoswitchable Drugs. <i>Polymers</i> , 2017, 9, 639.	2.0	29
21	TiO ₂ as Photosensitizer and Photoinitiator for Synthesis of Photoactive TiO ₂ -PEGDA Hydrogel Without Organic Photoinitiator. <i>Frontiers in Chemistry</i> , 2018, 6, 340.	1.8	27
22	Membrane fouling control for sustainable microalgal biodiesel production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112335.	8.2	27
23	Surface modification of polyamide and poly(vinylidene fluoride) membranes. <i>Journal of Applied Polymer Science</i> , 2013, 128, 322-331.	1.3	26
24	Bio-Inspired Polymer Membrane Surface Cleaning. <i>Polymers</i> , 2017, 9, 97.	2.0	26
25	Comparison of Photocatalytic Membrane Reactor Types for the Degradation of an Organic Molecule by TiO ₂ -Coated PES Membrane. <i>Catalysts</i> , 2020, 10, 725.	1.6	26
26	A novel electron beam-based method for the immobilization of trypsin on poly(ethersulfone) and poly(vinylidene fluoride) membranes. <i>Reactive and Functional Polymers</i> , 2013, 73, 698-702.	2.0	23
27	Charge Separating Microfiltration Membrane with pH-Dependent Selectivity. <i>Polymers</i> , 2019, 11, 3.	2.0	21
28	High flux and adsorption based non-functionalized hexagonal boron nitride lamellar membrane for ultrafast water purification. <i>Chemical Engineering Journal</i> , 2021, 420, 127721.	6.6	20
29	Membrane Functionalization with Hyperbranched Polymers. <i>Materials</i> , 2016, 9, 706.	1.3	19
30	Controlled Electron-Beam Synthesis of Transparent Hydrogels for Drug Delivery Applications. <i>Polymers</i> , 2019, 11, 501.	2.0	19
31	Water Softening Using a Light-Responsive, Spiropyran-Modified Nanofiltration Membrane. <i>Polymers</i> , 2019, 11, 344.	2.0	18
32	Oxone/Sodium Chloride: A Simple and Efficient Catalytic System for the Oxidation of Alcohols to Symmetric Esters and Ketones. <i>Synthetic Communications</i> , 2006, 36, 1147-1156.	1.1	17
33	Biocatalytic Self-Cleaning Polymer Membranes. <i>Polymers</i> , 2015, 7, 1837-1849.	2.0	16
34	Enhanced Removal and Toxicity Decline of Diclofenac by Combining UVA Treatment and Adsorption of Photoproducts to Polyvinylidene Difluoride. <i>Polymers</i> , 2020, 12, 2340.	2.0	16
35	Oxidation of Alcohols with Catalytic Amounts of IBX. <i>Synthesis</i> , 2006, 2006, 257-260.	1.2	15
36	Polymer membranes for active degradation of complex fouling mixtures. <i>Journal of Membrane Science</i> , 2018, 563, 481-491.	4.1	15

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37	Photosensitizer-loaded hydrogels for photodynamic inactivation of multiresistant bacteria in wounds. <i>RSC Advances</i> , 2021, 11, 7600-7609.	1.7	15
38	Latex particle rejections from virgin and mixed charged surface polycarbonate track etched membranes. <i>Journal of Membrane Science</i> , 2019, 584, 110-119.	4.1	13
39	Electron Beam Immobilization of Novel Antimicrobial, Short Peptide Motifs Leads to Membrane Surfaces with Promising Antibacterial Properties. <i>Journal of Functional Biomaterials</i> , 2018, 9, 21.	1.8	12
40	Effect of Morphology on the Photoelectrochemical Activity of TiO ₂ Self-Organized Nanotube Arrays. <i>Catalysts</i> , 2020, 10, 279.	1.6	12
41	Uptake and release of photosensitizers in a hydrogel for applications in photodynamic therapy: the impact of structural parameters on intrapolymer transport dynamics. <i>RSC Advances</i> , 2018, 8, 41624-41632.	1.7	11
42	Electron beam functionalized photodynamic polyethersulfone membranesâ€™ photophysical characterization and antimicrobial activity. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1346-1354.	1.6	11
43	Radiation-Induced Graft Immobilization (RIGI): Covalent Binding of Non-Vinyl Compounds on Polymer Membranes. <i>Polymers</i> , 2021, 13, 1849.	2.0	10
44	Estradiol Removal by Adsorptive Coating of a Microfiltration Membrane. <i>Membranes</i> , 2021, 11, 99.	1.4	10
45	Photodynamic Inactivation of SARS-CoV-2 Infectivity and Antiviral Treatment Effects In Vitro. <i>Viruses</i> , 2022, 14, 1301.	1.5	10
46	Photoactive polymer membranes for degradation of pharmaceuticals from water. <i>Catalysis Today</i> , 2021, 364, 256-262.	2.2	9
47	Highly Efficient One-Step Protein Immobilization on Polymer Membranes Supported by Response Surface Methodology. <i>Frontiers in Chemistry</i> , 2021, 9, 804698.	1.8	6
48	Reduction of Biofouling of a Microfiltration Membrane Using Amide Functionalitiesâ€™ Hydrophilization without Changes in Morphology. <i>Polymers</i> , 2020, 12, 1379.	2.0	5
49	Reagent-Free Immobilization of Industrial Lipases to Develop Lipolytic Membranes with Self-Cleaning Surfaces. <i>Membranes</i> , 2022, 12, 599.	1.4	3
50	Ion incidence angle dependent pattern formation at AZ 4562Â® photo resist by Ar ⁺ ion beam erosion. <i>Applied Surface Science</i> , 2022, 574, 151682.	3.1	1
51	IBX-Mediated Conversion of Primary Alcohols and Aldehydes to N-Hydroxysuccinimide Esters.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
52	Membrane Functionalization in Pilot Scale: Rollâ€™toâ€™Roll Electron Beam System with Inline Contact Angle Determination. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 1383-1388.	0.4	0