

Andrea Zille

List of Publications by Year in descending order

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91
papers

3,581
citations

159585
30
h-index

138484
58
g-index

93
all docs

93
docs citations

93
times ranked

4714
citing authors

#	ARTICLE	IF	CITATIONS
1	Complexity of cyanobacterial exopolysaccharides: composition, structures, inducing factors and putative genes involved in their biosynthesis and assembly. FEMS Microbiology Reviews, 2009, 33, 917-941.	8.6	522
2	Biodegradation of textile azo dyes by a facultative <i>Staphylococcus arlettae</i> strain VN-11 using a sequential microaerophilic/aerobic process. International Biodeterioration and Biodegradation, 2009, 63, 280-288.	3.9	232
3	Plasma Treatment in Textile Industry. Plasma Processes and Polymers, 2015, 12, 98-131.	3.0	206
4	Degradation of Azo Dyes by <i>Trametes villosa</i> Laccase over Long Periods of Oxidative Conditions. Applied and Environmental Microbiology, 2005, 71, 6711-6718.	3.1	151
5	Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes by electrospinning method. Carbohydrate Polymers, 2014, 99, 584-592.	10.2	144
6	Immobilized laccase for decolourization of Reactive Black 5 dyeing effluent. Biotechnology Letters, 2003, 25, 1473-1477.	2.2	131
7	Using extracellular polymeric substances (EPS)-producing cyanobacteria for the bioremediation of heavy metals: do cations compete for the EPS functional groups and also accumulate inside the cell?. Microbiology (United Kingdom), 2011, 157, 451-458.	1.8	118
8	Microaerophilic-aerobic sequential decolourization/biodegradation of textile azo dyes by a facultative <i>Klebsiella</i> sp. strain VN-31. Process Biochemistry, 2009, 44, 446-452.	3.7	113
9	Size and Aging Effects on Antimicrobial Efficiency of Silver Nanoparticles Coated on Polyamide Fabrics Activated by Atmospheric DBD Plasma. ACS Applied Materials & Interfaces, 2015, 7, 13731-13744.	8.0	103
10	Laccase immobilization on bacterial nanocellulose membranes: Antimicrobial, kinetic and stability properties. Carbohydrate Polymers, 2016, 145, 1-12.	10.2	90
11	Production and characterization of extracellular carbohydrate polymer from <i>Cyanothece</i> sp. CCY 0110. Carbohydrate Polymers, 2013, 92, 1408-1415.	10.2	89
12	Synergistic Effects Between Metal Nanoparticles and Commercial Antimicrobial Agents: A Review. ACS Applied Nano Materials, 2022, 5, 3030-3064.	5.0	84
13	Efficacy of disinfectant-impregnated wipes used for surface disinfection in hospitals: a review. Antimicrobial Resistance and Infection Control, 2019, 8, 139.	4.1	77
14	Activity of Specialized Biomolecules against Gram-Positive and Gram-Negative Bacteria. Antibiotics, 2020, 9, 314.	3.7	77
15	Predicting Dye Biodegradation from Redox Potentials. Biotechnology Progress, 2004, 20, 1588-1592.	2.6	76
16	Laccase immobilization on enzymatically functionalized polyamide 6,6 fibres. Enzyme and Microbial Technology, 2007, 41, 867-875.	3.2	76
17	Properties and controlled release of chitosan microencapsulated limonene oil. Revista Brasileira De Farmacognosia, 2014, 24, 691-698.	1.4	64
18	Dyeing mechanism and optimization of polyamide 6,6 functionalized with double barrier discharge (DBD) plasma in air. Applied Surface Science, 2014, 293, 177-186.	6.1	64

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19	Conducting fabrics of polyester coated with polypyrrole and doped with graphene oxide. <i>Synthetic Metals</i> , 2015, 204, 110-121.	3.9	63
20	Glycerol/PEDOT:PSS coated woven fabric as a flexible heating element on textiles. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3807-3822.	5.5	59
21	Application of nanotechnology in antimicrobial finishing of biomedical textiles. <i>Materials Research Express</i> , 2014, 1, 032003.	1.6	58
22	Effect of Some Process Parameters in Enzymatic Dyeing of Wool. <i>Applied Biochemistry and Biotechnology</i> , 2003, 111, 1-14.	2.9	51
23	Antibacterial Electrospun Poly(vinyl alcohol)/Enzymatic Synthesized Poly(catechol) Nanofibrous Midlayer Membrane for Ultrafiltration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33107-33118.	8.0	50
24	Multifunctional Chitosan/Gold Nanoparticles Coatings for Biomedical Textiles. <i>Nanomaterials</i> , 2019, 9, 1064.	4.1	48
25	Enzymatic polymerization on the surface of functionalized cellulose fibers. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1782-1787.	3.2	45
26	Effect of Particle Size on Silver Nanoparticle Deposition onto Dielectric Barrier Discharge (DBD) Plasma Functionalized Polyamide Fabric. <i>Plasma Processes and Polymers</i> , 2013, 10, 285-296.	3.0	45
27	Laccase kinetics of degradation and coupling reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 33, 23-28.	1.8	40
28	Extraction and Characterization of Cellulosic Nanowhisker Obtained from Discarded Cotton Fibers. <i>Materials Today: Proceedings</i> , 2015, 2, 1-7.	1.8	39
29	Gold Nanoparticles Synthesis and Antimicrobial Effect on Fibrous Materials. <i>Nanomaterials</i> , 2021, 11, 1067.	4.1	39
30	Polysaccharides and Metal Nanoparticles for Functional Textiles: A Review. <i>Nanomaterials</i> , 2022, 12, 1006.	4.1	37
31	Characterisation of enzymatically oxidised lignosulfonates and their application on lignocellulosic fabrics. <i>Polymer International</i> , 2009, 58, 863-868.	3.1	33
32	Structural coloration of chitosan coated cellulose fabrics by electrostatic self-assembled poly (styrene-methyl methacrylate-acrylic acid) photonic crystals. <i>Carbohydrate Polymers</i> , 2018, 193, 343-352.	10.2	29
33	Dyed Poly(styrene-methyl Methacrylate-acrylic Acid) Photonic Nanocrystals for Enhanced Structural Color. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23285-23294.	8.0	29
34	Antimicrobial action and clotting time of thin, hydrated poly(vinyl alcohol)/cellulose acetate films functionalized with LL37 for prospective woundâ€œhealing applications. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48626.	2.6	25
35	Effect of Dispersion Solvent on the Deposition of PVP-Silver Nanoparticles onto DBD Plasma-Treated Polyamide 6,6 Fabric and Its Antimicrobial Efficiency. <i>Nanomaterials</i> , 2020, 10, 607.	4.1	24
36	New Textile for Personal Protective Equipmentâ€œPlasma Chitosan/Silver Nanoparticles Nylon Fabric. <i>Fibers</i> , 2021, 9, 3.	4.0	24

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37	Synergistically enhanced stability of laccase immobilized on synthesized silver nanoparticles with water-soluble polymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 210-220.	5.0	22
38	Antimicrobial Efficacy of Low Concentration PVP-Silver Nanoparticles Deposited on DBD Plasma-Treated Polyamide 6,6 Fabric. <i>Coatings</i> , 2019, 9, 581.	2.6	22
39	Comfort and Infection Control of Chitosan-impregnated Cotton Gauze as Wound Dressing. <i>Fibers and Polymers</i> , 2019, 20, 922-932.	2.1	21
40	Antimicrobial Efficiency and Surface Interactions of Quaternary Ammonium Compound Absorbed on Dielectric Barrier Discharge (DBD) Plasma Treated Fiber-Based Wiping Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 298-311.	8.0	19
41	Stabilization of Silver Nanoparticles on Polyester Fabric Using Organo-Matrices for Controlled Antimicrobial Performance. <i>Polymers</i> , 2022, 14, 1138.	4.5	18
42	Effects of Base Fabric Parameters on the Electro-Mechanical Behavior of Piezoresistive Knitted Sensors. <i>IEEE Sensors Journal</i> , 2018, 18, 4529-4535.	4.7	17
43	Experimental and Modeling Analysis of <i>Synechocystis</i> sp. PCC 6803 Growth. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2012, 22, 71-82.	1.0	16
44	Development of porous alumina membranes for treatment of textile effluent. <i>Desalination and Water Treatment</i> , 2016, 57, 2640-2648.	1.0	16
45	Ultraviolet-C as a Viable Reprocessing Method for Disposable Masks and Filtering Facepiece Respirators. <i>Polymers</i> , 2021, 13, 801.	4.5	16
46	Thermal, Mechanical and Chemical Analysis of Poly(vinyl alcohol) Multifilament and Braided Yarns. <i>Polymers</i> , 2021, 13, 3644.	4.5	14
47	Nanocoating on cotton fabric with nitrogen-doped graphene quantum dots/titanium dioxide/PVA: an erythral UV protection and photoluminescent finishing. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2435-2450.	5.8	14
48	Efficient silver nanoparticles deposition method on DBD plasma-treated polyamide 6,6 for antimicrobial textiles. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 460, 012007.	0.6	13
49	Chemical, Thermo-Mechanical and Antimicrobial Properties of DBD Plasma Treated Disinfectant-Impregnated Wipes during Storage. <i>Polymers</i> , 2019, 11, 1769.	4.5	13
50	Inhibition of Escherichia Virus MS2, Surrogate of SARS-CoV-2, via Essential Oils-Loaded Electrospun Fibrous Mats: Increasing the Multifunctionality of Antivirus Protection Masks. <i>Pharmaceutics</i> , 2022, 14, 303.	4.5	13
51	Characterization of functional single jersey knitted fabrics using non-conventional yarns for sportswear. <i>Textile Research Journal</i> , 2018, 88, 275-292.	2.2	12
52	Plasma technology in fashion and textiles. , 2020, , 117-142.		12
53	Advanced Material Against Human (Including Covid-19) and Plant Viruses: Nanoparticles As a Feasible Strategy. <i>Global Challenges</i> , 2021, 5, 2000049.	3.6	12
54	Electrospun Nanofibrous Poly (Lactic Acid)/Titanium Dioxide Nanocomposite Membranes for Cutaneous Scar Minimization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 421.	4.1	10

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55	Atmospheric Pressure Plasma Deposition of Organosilicon Thin Films by Direct Current and Radio-frequency Plasma Jets. <i>Materials</i> , 2020, 13, 1296.	2.9	9
56	In Situ Synthesis of Copper Nanoparticles on Dielectric Barrier Discharge Plasma-Treated Polyester Fabrics at Different Reaction pHs. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3908-3918.	4.4	9
57	Structural coloration of chitosan-cationized cotton fabric using photonic crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 254, 102012.	0.6	8
58	Dielectric relaxation of near-percolated carbon nanofiber polypropylene composites. <i>Physica B: Condensed Matter</i> , 2017, 516, 41-47.	2.7	7
59	Dog Wool Microparticles/Polyurethane Composite for Thermal Insulation. <i>Polymers</i> , 2020, 12, 1098.	4.5	7
60	Vehiculation of Methyl Salicylate from Microcapsules Supported on Textile Matrix. <i>Materials</i> , 2021, 14, 1087.	2.9	7
61	Bacteria co-culture adhesion on different texturized zirconia surfaces. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 123, 104786.	3.1	7
62	Atmospheric-Pressure Plasma Spray Deposition of Silver/HMDSO Nanocomposite on Polyamide 6,6 with Controllable Antibacterial Activity. <i>AATCC Journal of Research</i> , 2020, 7, 1-6.	0.6	7
63	A Comprehensive Analysis of the UVC LEDs™ Applications and Decontamination Capability. <i>Materials</i> , 2022, 15, 2854.	2.9	7
64	Thermo-Mechanical Behaviour of Human Nasal Cartilage. <i>Polymers</i> , 2020, 12, 177.	4.5	6
65	Surface modification of <sc>ZnO</sc> quantum dots coated polylactic acid knitted fabric for photocatalytic application. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	6
66	Development of an Ultraviolet-C Irradiation Room in a Public Portuguese Hospital for Safe Re-Utilization of Personal Protective Respirators. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4854.	2.6	6
67	Optimizing enzymatic dyeing of wool and leather. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	5
68	Aging Effect on Functionalized Silver-Based Nanocoating Braided Coronary Stents. <i>Coatings</i> , 2020, 10, 1234.	2.6	5
69	Laccases stabilization with phosphatidylcholine liposomes. <i>Journal of Biophysical Chemistry</i> , 2012, 03, 81-87.	0.5	5
70	Photocatalytic Properties of Sisal Fiber Coated with Nano Titanium Dioxide. <i>Materials Today: Proceedings</i> , 2015, 2, 41-48.	1.8	4
71	Coated chitosan onto gauze to efficient conditions for maintenance of the wound microenvironment. <i>Procedia Engineering</i> , 2017, 200, 135-140.	1.2	4
72	Plasma-assisted deposition of microcapsule containing Aloe vera extract for cosmeo-textiles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 254, 122007.	0.6	4

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73	Influence of transcrystalline layer on finite element mesoscale modeling of polyamide 6 based single polymer laminate composites. <i>Composite Structures</i> , 2020, 232, 111555.	5.8	4
74	Testing, characterization and regulations of antimicrobial textiles. , 2021, , 485-511.		4
75	Tinctorial behavior of curaua and banana fibers and dyeing wastewater treatment by porous alumina membranes. <i>Desalination and Water Treatment</i> , 2016, 57, 2750-2758.	1.0	3
76	Reuse of effluent from dyeing process of polyamide fibers modified by double barrier discharge (DBD) plasma. <i>Desalination and Water Treatment</i> , 2016, 57, 2649-2656.	1.0	3
77	The influence of chemical reaction conditions upon poly(styrene- <i>co</i> -methyl methacrylate- <i>co</i> -acrylic acid) synthesis: Variations in nanoparticle size, colour and deposition methods. <i>Coloration Technology</i> , 2020, 136, 101-109.	1.5	3
78	Shape memory polymers as actuators: Characterization of the relevant parameters under constrained recovery. <i>Polymer Engineering and Science</i> , 2021, 61, 2522-2535.	3.1	3
79	New Developments of Enzymatic Treatments on Cellulosic Fibers. <i>ACS Symposium Series</i> , 2007, , 186-192.	0.5	2
80	Double dielectric barrier (DBD) plasma-assisted deposition of chemical stabilized nanoparticles on polyamide 6,6 and polyester fabrics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 254, 102010.	0.6	2
81	Characterization of a natural surfactant from an essential oil from neem (<i>Azadirachta indica</i> A. Juss) for textile industry applications. <i>Textile Research Journal</i> , 0, , 004051752110075.	2.2	2
82	The urgency of measuring fluorinated greenhouse gas emission factors from the treatment of textile and other substrates. <i>Resources, Conservation and Recycling</i> , 2021, 174, 105820.	10.8	1
83	Nonwoven materials and technologies for medical applications. , 2022, , 605-661.		1
84	Development of Antimicrobial Polyester Fabric by a Green <i>In Situ</i> Synthesis of Copper Nanoparticles Mediated from Chitosan and Ascorbic Acid. <i>Materials Science Forum</i> , 0, 1063, 83-90.	0.3	1
85	Enhancing the Antimicrobial Efficacy of Polyester Fabric Impregnated with Silver Nanoparticles Using DBD Plasma Treatment. <i>Materials Science Forum</i> , 0, 1063, 91-97.	0.3	1
86	Osteosynthesis Metal Plate System for Bone Fixation Using Bicortical Screws: Numerical-Experimental Characterization. <i>Biology</i> , 2022, 11, 940.	2.8	1
87	(Invited) Plasma Deposition of Antibacterial Nano-Coatings on Polymeric Materials. <i>ECS Transactions</i> , 2017, 77, 53-61.	0.5	0
88	Structure Properties Change of Ready to Use Nonwoven Wiping Materials over Storage Time. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 460, 012055.	0.6	0
89	Effects of cellulose nanofibrils on the structure and properties of maleic anhydride crosslinked poly(vinyl alcohol) electrospun nanofibers. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	0
90	Flexible, biodegradable LL37-anchored poly(vinyl alcohol)/cellulose acetate films for enhanced infection control. , 0, , .		0

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91	Fiber-Based Masks and Respirators: Using Decontamination Methods and Antimicrobial Treatment to Improve Its Reusability during Pandemic. Textiles, 2022, 2, 318-335.	4.1	0