

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	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
2	Stabilization of Silver Nanoparticles on Polyester Fabric Using Organo-Matrices for Controlled Antimicrobial Performance. <i>Polymers</i> , 2022, 14, 1138.	4.5	18
3	Synergistic Effects Between Metal Nanoparticles and Commercial Antimicrobial Agents: A Review. <i>ACS Applied Nano Materials</i> , 2022, 5, 3030-3064.	5.0	84
4	Polysaccharides and Metal Nanoparticles for Functional Textiles: A Review. <i>Nanomaterials</i> , 2022, 12, 1006.	4.1	37
5	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
6	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
7	A Comprehensive Analysis of the UVC LEDs™ Applications and Decontamination Capability. <i>Materials</i> , 2022, 15, 2854.	2.9	7
8	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
9	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
10	Nonwoven materials and technologies for medical applications. , 2022, , 605-661.		1
11	Fiber-Based Masks and Respirators: Using Decontamination Methods and Antimicrobial Treatment to Improve Its Reusability during Pandemic. <i>Textiles</i> , 2022, 2, 318-335.	4.1	0
12	Osteosynthesis Metal Plate System for Bone Fixation Using Bicortical Screws: Numerical–Experimental Characterization. <i>Biology</i> , 2022, 11, 940.	2.8	1
13	Vehiculation of Methyl Salicylate from Microcapsules Supported on Textile Matrix. <i>Materials</i> , 2021, 14, 1087.	2.9	7
14	Ultraviolet-C as a Viable Reprocessing Method for Disposable Masks and Filtering Facepiece Respirators. <i>Polymers</i> , 2021, 13, 801.	4.5	16
15	Gold Nanoparticles Synthesis and Antimicrobial Effect on Fibrous Materials. <i>Nanomaterials</i> , 2021, 11, 1067.	4.1	39
16	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
17	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
18	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

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19	Testing, characterization and regulations of antimicrobial textiles. , 2021, , 485-511.		4
20	New Textile for Personal Protective Equipmentâ€”Plasma Chitosan/Silver Nanoparticles Nylon Fabric. Fibers, 2021, 9, 3.	4.0	24
21	Advanced Material Against Human (Including Covidâ€™19) and Plant Viruses: Nanoparticles As a Feasible Strategy. Global Challenges, 2021, 5, 2000049.	3.6	12
22	Thermal, Mechanical and Chemical Analysis of Poly(vinyl alcohol) Multifilament and Braided Yarns. Polymers, 2021, 13, 3644.	4.5	14
23	The influence of chemical reaction conditions upon poly(styreneâ€™methyl methacrylateâ€™acrylic acid) synthesis: Variations in nanoparticle size, colour and deposition methods. Coloration Technology, 2020, 136, 101-109.	1.5	3
24	Influence of transcrystalline layer on finite element mesoscale modeling of polyamide 6 based single polymer laminate composites. Composite Structures, 2020, 232, 111555.	5.8	4
25	Antimicrobial action and clotting time of thin, hydrated poly(vinyl alcohol)/cellulose acetate films functionalized with LL37 for prospective woundâ€™healing applications. Journal of Applied Polymer Science, 2020, 137, 48626.	2.6	25
26	Plasma technology in fashion and textiles. , 2020, , 117-142.		12
27	Antimicrobial Efficiency and Surface Interactions of Quaternary Ammonium Compound Absorbed on Dielectric Barrier Discharge (DBD) Plasma Treated Fiber-Based Wiping Materials. ACS Applied Materials & Interfaces, 2020, 12, 298-311.	8.0	19
28	Aging Effect on Functionalized Silver-Based Nanocoating Braided Coronary Stents. Coatings, 2020, 10, 1234.	2.6	5
29	Dog Wool Microparticles/Polyurethane Composite for Thermal Insulation. Polymers, 2020, 12, 1098.	4.5	7
30	Activity of Specialized Biomolecules against Gram-Positive and Gram-Negative Bacteria. Antibiotics, 2020, 9, 314.	3.7	77
31	Atmospheric Pressure Plasma Deposition of Organosilicon Thin Films by Direct Current and Radio-frequency Plasma Jets. Materials, 2020, 13, 1296.	2.9	9
32	Thermo-Mechanical Behaviour of Human Nasal Cartilage. Polymers, 2020, 12, 177.	4.5	6
33	Effect of Dispersion Solvent on the Deposition of PVP-Silver Nanoparticles onto DBD Plasma-Treated Polyamide 6,6 Fabric and Its Antimicrobial Efficiency. Nanomaterials, 2020, 10, 607.	4.1	24
34	Atmospheric-Pressure Plasma Spray Deposition of Silver/HMDSO Nanocomposite on Polyamide 6,6 with Controllable Antibacterial Activity. AATCC Journal of Research, 2020, 7, 1-6.	0.6	7
35	Multifunctional Chitosan/Gold Nanoparticles Coatings for Biomedical Textiles. Nanomaterials, 2019, 9, 1064.	4.1	48
36	Antimicrobial Efficacy of Low Concentration PVP-Silver Nanoparticles Deposited on DBD Plasma-Treated Polyamide 6,6 Fabric. Coatings, 2019, 9, 581.	2.6	22

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37	Efficacy of disinfectant-impregnated wipes used for surface disinfection in hospitals: a review. Antimicrobial Resistance and Infection Control, 2019, 8, 139.	4.1	77
38	Optimizing enzymatic dyeing of wool and leather. SN Applied Sciences, 2019, 1, 1.	2.9	5
39	Comfort and Infection Control of Chitosan-impregnated Cotton Gauze as Wound Dressing. Fibers and Polymers, 2019, 20, 922-932.	2.1	21
40	Chemical, Thermo-Mechanical and Antimicrobial Properties of DBD Plasma Treated Disinfectant-Impregnated Wipes during Storage. Polymers, 2019, 11, 1769.	4.5	13
41	Effects of cellulose nanofibrils on the structure and properties of maleic anhydride crosslinked poly(vinyl alcohol) electrospun nanofibers. SN Applied Sciences, 2019, 1, 1.	2.9	0
42	Electrospun Nanofibrous Poly (Lactic Acid)/Titanium Dioxide Nanocomposite Membranes for Cutaneous Scar Minimization. Frontiers in Bioengineering and Biotechnology, 2019, 7, 421.	4.1	10
43	Effects of Base Fabric Parameters on the Electro-Mechanical Behavior of Piezoresistive Knitted Sensors. IEEE Sensors Journal, 2018, 18, 4529-4535.	4.7	17
44	Structural coloration of chitosan coated cellulose fabrics by electrostatic self-assembled poly (styrene-methyl methacrylate-acrylic acid) photonic crystals. Carbohydrate Polymers, 2018, 193, 343-352.	10.2	29
45	Characterization of functional single jersey knitted fabrics using non-conventional yarns for sportswear. Textile Research Journal, 2018, 88, 275-292.	2.2	12
46	Structure Properties Change of Ready to Use Nonwoven Wiping Materials over Storage Time. IOP Conference Series: Materials Science and Engineering, 2018, 460, 012055.	0.6	0
47	Dyed Poly(styrene-methyl Methacrylate-acrylic Acid) Photonic Nanocrystals for Enhanced Structural Color. ACS Applied Materials & Interfaces, 2018, 10, 23285-23294.	8.0	29
48	Dielectric relaxation of near-percolated carbon nanofiber polypropylene composites. Physica B: Condensed Matter, 2017, 516, 41-47.	2.7	7
49	(Invited) Plasma Deposition of Antibacterial Nano-Coatings on Polymeric Materials. ECS Transactions, 2017, 77, 53-61.	0.5	0
50	Glycerol/PEDOT:PSS coated woven fabric as a flexible heating element on textiles. Journal of Materials Chemistry C, 2017, 5, 3807-3822.	5.5	59
51	Synergistically enhanced stability of laccase immobilized on synthesized silver nanoparticles with water-soluble polymers. Colloids and Surfaces B: Biointerfaces, 2017, 154, 210-220.	5.0	22
52	Coated chitosan onto gauze to efficient conditions for maintenance of the wound microenvironment. Procedia Engineering, 2017, 200, 135-140.	1.2	4
53	Structural coloration of chitosan-cationized cotton fabric using photonic crystals. IOP Conference Series: Materials Science and Engineering, 2017, 254, 102012.	0.6	8
54	Double dielectric barrier (DBD) plasma-assisted deposition of chemical stabilized nanoparticles on polyamide 6,6 and polyester fabrics. IOP Conference Series: Materials Science and Engineering, 2017, 254, 102010.	0.6	2

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55	Antibacterial Electrospun Poly(vinyl alcohol)/Enzymatic Synthesized Poly(catechol) Nanofibrous Midlayer Membrane for Ultrafiltration. ACS Applied Materials & Interfaces, 2017, 9, 33107-33118.	8.0	50
56	Plasma-assisted deposition of microcapsule containing Aloe vera extract for cosme-to-textiles. IOP Conference Series: Materials Science and Engineering, 2017, 254, 122007.	0.6	4
57	Laccase immobilization on bacterial nanocellulose membranes: Antimicrobial, kinetic and stability properties. Carbohydrate Polymers, 2016, 145, 1-12.	10.2	90
58	Tinctorial behavior of curaua and banana fibers and dyeing wastewater treatment by porous alumina membranes. Desalination and Water Treatment, 2016, 57, 2750-2758.	1.0	3
59	Development of porous alumina membranes for treatment of textile effluent. Desalination and Water Treatment, 2016, 57, 2640-2648.	1.0	16
60	Reuse of effluent from dyeing process of polyamide fibers modified by double barrier discharge (DBD) plasma. Desalination and Water Treatment, 2016, 57, 2649-2656.	1.0	3
61	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
62	Conducting fabrics of polyester coated with polypyrrole and doped with graphene oxide. Synthetic Metals, 2015, 204, 110-121.	3.9	63
63	Extraction and Characterization of Cellulosic Nanowhisker Obtained from Discarded Cotton Fibers. Materials Today: Proceedings, 2015, 2, 1-7.	1.8	39
64	Photocatalytic Properties of Sisal Fiber Coated with Nano Titanium Dioxide. Materials Today: Proceedings, 2015, 2, 41-48.	1.8	4
65	Plasma Treatment in Textile Industry. Plasma Processes and Polymers, 2015, 12, 98-131.	3.0	206
66	Properties and controlled release of chitosan microencapsulated limonene oil. Revista Brasileira De Farmacognosia, 2014, 24, 691-698.	1.4	64
67	Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes by electrospinning method. Carbohydrate Polymers, 2014, 99, 584-592.	10.2	144
68	Application of nanotechnology in antimicrobial finishing of biomedical textiles. Materials Research Express, 2014, 1, 032003.	1.6	58
69	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
70	Production and characterization of extracellular carbohydrate polymer from Cyanothecce sp. CCY 0110. Carbohydrate Polymers, 2013, 92, 1408-1415.	10.2	89
71	Effect of Particle Size on Silver Nanoparticle Deposition onto Dielectric Barrier Discharge (DBD) Plasma Functionalized Polyamide Fabric. Plasma Processes and Polymers, 2013, 10, 285-296.	3.0	45
72	Experimental and Modeling Analysis of <i>Synechocystis</i> sp. PCC 6803 Growth. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 71-82.	1.0	16

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73	Laccases stabilization with phosphatidylcholine liposomes. Journal of Biophysical Chemistry, 2012, 03, 81-87.	0.5	5
74	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
75	Characterisation of enzymatically oxidised lignosulfonates and their application on lignocellulosic fabrics. Polymer International, 2009, 58, 863-868.	3.1	33
76	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
77	Biodegradation of textile azo dyes by a facultative Staphylococcus arlettae strain VN-11 using a sequential microaerophilic/aerobic process. International Biodeterioration and Biodegradation, 2009, 63, 280-288.	3.9	232
78	Microaerophilic-aerobic sequential decolourization/biodegradation of textile azo dyes by a facultative Klebsiella sp. strain VN-31. Process Biochemistry, 2009, 44, 446-452.	3.7	113
79	New Developments of Enzymatic Treatments on Cellulosic Fibers. ACS Symposium Series, 2007, , 186-192.	0.5	2
80	Enzymatic polymerization on the surface of functionalized cellulose fibers. Enzyme and Microbial Technology, 2007, 40, 1782-1787.	3.2	45
81	Laccase immobilization on enzymatically functionalized polyamide 6,6 fibres. Enzyme and Microbial Technology, 2007, 41, 867-875.	3.2	76
82	Laccase kinetics of degradation and coupling reactions. Journal of Molecular Catalysis B: Enzymatic, 2005, 33, 23-28.	1.8	40
83	Degradation of Azo Dyes by Trametes villosa Laccase over Long Periods of Oxidative Conditions. Applied and Environmental Microbiology, 2005, 71, 6711-6718.	3.1	151
84	Predicting Dye Biodegradation from Redox Potentials. Biotechnology Progress, 2004, 20, 1588-1592.	2.6	76
85	Effect of Some Process Parameters in Enzymatic Dyeing of Wool. Applied Biochemistry and Biotechnology, 2003, 111, 1-14.	2.9	51
86	Immobilized laccase for decolourization of Reactive Black 5 dyeing effluent. Biotechnology Letters, 2003, 25, 1473-1477.	2.2	131
87	Efficient silver nanoparticles deposition method on DBD plasma-treated polyamide 6,6 for antimicrobial textiles. IOP Conference Series: Materials Science and Engineering, 0, 460, 012007.	0.6	13
88	Characterization of a natural surfactant from an essential oil from neem (Azadirachta indica A. Juss) for textile industry applications. Textile Research Journal, 0, , 004051752110075.	2.2	2
89	Flexible, biodegradable LL37-anchored poly(vinyl alcohol)/cellulose acetate films for enhanced infection control. , 0, , .		0
90	Development of Antimicrobial Polyester Fabric by a Green <i>In Situ</i> Synthesis of Copper Nanoparticles Mediated from Chitosan and Ascorbic Acid. Materials Science Forum, 0, 1063, 83-90.	0.3	1

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91	Enhancing the Antimicrobial Efficacy of Polyester Fabric Impregnated with Silver Nanoparticles Using DBD Plasma Treatment. Materials Science Forum, 0, 1063, 91-97.	0.3	1