# CITATION REPORT List of articles citing

Antimicrobial Polymers in Solution and on Surfaces: Overview and Functional Principles

DOI: 10.3390/polym4010046 Polymers, 2012, 4, 46-71.

Source: https://exaly.com/paper-pdf/54035744/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
572	Antibacterial and Biocompatible Cross-Linked Waterborne Polyurethanes Containing Gemini Quaternary Ammonium Salts.		
571	Thiabicyclononane-Based Antimicrobial Polycations.		
570	Onium-functionalised Polymers in the Design of Non-leaching Antimicrobial Surfaces. <b>2012</b> , 297, 1038-	1074	20
569	Fabrication of pDMAEMA-coated silica nanoparticles and their enhanced antibacterial activity. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 407, 205-9	9.3	24
568	Molecular design, structures, and activity of antimicrobial peptide-mimetic polymers. <b>2013</b> , 13, 1285-99	)	94
567	Chemical modification of polyvinyl chloride and silicone elastomer in inhibiting adhesion of Aeromonas hydrophila. <b>2013</b> , 29, 1197-206		16
566	Antimicrobial viscose fabric prepared by treatment in DBD and subsequent deposition of silver and copper ionsInvestigation of plasma aging effect. <b>2013</b> , 234, 92-99		33
565	Current and emergent strategies for disinfection of hospital environments. 2013, 68, 2718-32		104
564	Enhanced antibacterial activity of silver/polyrhodanine-composite-decorated silica nanoparticles. <b>2013</b> , 5, 11563-8		81
563	Exploring suitable oligoamines for phantom ring-closing condensation polymerization with guanidine hydrochloride. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 707-716	4.9	5
562	Antimicrobial resistance of clay polymer nanocomposites. <b>2013</b> , 86, 179-184		15
561	Durable contact active antimicrobial materials formed by a one-step covalent modification of polyvinyl alcohol, cellulose and glass surfaces. <b>2013</b> , 112, 356-61		37
560	Effect of guanidinylation on the properties of poly(2-aminoethylmethacrylate)-based antibacterial materials. <b>2013</b> , 13, 242-55		32
559	Effect of water-aging on the antimicrobial activities of an ORMOSIL-containing orthodontic acrylic resin. <b>2013</b> , 9, 6964-73		28
558	Antibacterial surfaces: the quest for a new generation of biomaterials. <b>2013</b> , 31, 295-304		671
557	Light-switchable polymer from cationic to zwitterionic form: synthesis, characterization, and interactions with DNA and bacterial cells. <b>2013</b> , 34, 635-9		28
556	Quaternary ammonium monomers for UV crosslinked antibacterial surfaces. <b>2013</b> , 430, 21-28		27

## (2014-2013)

555	Magnetic porous sugar-functionalized PEG microgels for efficient isolation and removal of bacteria from solution. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1927-35	40
554	Understanding the dark and light-enhanced bactericidal action of cationic conjugated polyelectrolytes and oligomers. <b>2013</b> , 29, 781-92	68
553	CHAPTER 1:Introduction to Antimicrobial Polymeric Materials. 2013, 1-21	4
552	Star-shaped poly(styrene)-block-poly(4-vinyl-N-methylpyridiniumiodide) for semipermanent antimicrobial coatings. <b>2013</b> , 13, 1447-55	21
551	Effect of plasma processing and organosilane modifications of polyethylene on Aeromonas hydrophila biofilm formation. <b>2014</b> , 2014, 232514	11
550	Development of Antibacterial Polyester Fabric by Growth of ZnO Nanorods. <b>2014</b> , 9, 155892501400900	7
549	Evaluation of Antibacterial Activity and Characterization of Synthesized Biodegradable Copolymers. <b>2014</b> , 53, 1625-1635	7
548	Development of durable antimicrobial surfaces containing silver- and zinc-ion Exchanged zeolites. <b>2014</b> , 38, 420-427	7
547	Antimicrobial Bioactive Polymer Coatings. <b>2014</b> , 449-461	1
546	Laccase coating of catheters with poly(catechin) for biofilm reduction. <b>2014</b> , 32, 2-12	8
545	Multifunctional poly(Vinyl Amine)s bearing Azetidinium groups: one pot preparation in water and antimicrobial properties. <b>2014</b> , 14, 1116-24	16
544	Incorporation of antimicrobial macromolecules in acrylic denture base resins: a research composition and update. <b>2014</b> , 23, 284-90	35
543	Antimicrobial polyurethane thermosets based on undecylenic acid: synthesis and evaluation. <b>2014</b> , 14, 1170-80	5
542	The Concept of the System for Parameterization of Functionalized Membranes. <b>2014</b> , 223, 3-10	
541	Magainins 🖪 Model for Development of Eukaryotic Antimicrobial Peptides (AMPs). <b>2014</b> , 47-70	1
540	CHAPTER 14:Antimicrobial Interfaces. <b>2014</b> , 399-423	
539	Acrylate copolymers containing benzimidazolium moieties: synthesis and antimicrobial applications. <b>2014</b> , 14, 391-396	2
538	Azetidinium Functionalized Polytetrahydrofurans: Antimicrobial Properties in Solution and Application to Prepare Non Leaching Antimicrobial Surfaces. <i>Polymers</i> , <b>2014</b> , 6, 1618-1630	12

537	Antimicrobial activity of poly(acrylic acid) block copolymers. <b>2014</b> , 38, 94-100		44
536	Antimicrobial polymer nanostructures: synthetic route, mechanism of action and perspective. <b>2014</b> , 203, 37-50		80
535	Modelling and Prediction of Bacterial Attachment to Polymers. <b>2014</b> , 24, 2085-2093		38
534	Polyacrylate guanidine and polymethacrylate guanidine as novel cationic polymers for effective bilirubin binding. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	11
533	Poly(2-oxazoline)s as materials for biomedical applications. <b>2014</b> , 25, 1211-25		131
532	Mini-review: Antimicrobial peptides and enzymes as promising candidates to functionalize biomaterial surfaces. <b>2014</b> , 30, 483-99		140
531	Antifouling polyurethanes to fight device-related staphylococcal infections: synthesis, characterization, and antibiofilm efficacy. <b>2014</b> , 70, 401-7		27
530	Enhanced bactericidal action of SnO2 nanostructures having different morphologies under visible light: influence of surfactant. <b>2014</b> , 130, 132-9		47
529	A need for new generation antibiotics against MRSA resistant bacteria. <b>2014</b> , 11, 109-16		18
528	Antimicrobial Surfaces. <b>2014</b> , 1-29		
528 527	Antimicrobial Surfaces. 2014, 1-29  An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. 2014, 16, 312-319		52
	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional		52
527	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. <b>2014</b> , 16, 312-319  PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant		
527 526	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. <b>2014</b> , 16, 312-319  PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant Staphylococcus aureus. <b>2014</b> , 35, 14-24  Identification of antimicrobial peptides and immobilization strategy suitable for a covalent surface		50
527 526 525	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. 2014, 16, 312-319  PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant Staphylococcus aureus. 2014, 35, 14-24  Identification of antimicrobial peptides and immobilization strategy suitable for a covalent surface coating with biocompatible properties. 2014, 25, 308-19  Biodegradable polypyrrole/dextrin conductive nanocomposite: Synthesis, characterization,		50
527 526 525 524	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. 2014, 16, 312-319  PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant Staphylococcus aureus. 2014, 35, 14-24  Identification of antimicrobial peptides and immobilization strategy suitable for a covalent surface coating with biocompatible properties. 2014, 25, 308-19  Biodegradable polypyrrole/dextrin conductive nanocomposite: Synthesis, characterization, antioxidant and antibacterial activity. 2014, 187, 9-16		50 37 110
<ul><li>527</li><li>526</li><li>525</li><li>524</li><li>523</li></ul>	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. 2014, 16, 312-319  PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant Staphylococcus aureus. 2014, 35, 14-24  Identification of antimicrobial peptides and immobilization strategy suitable for a covalent surface coating with biocompatible properties. 2014, 25, 308-19  Biodegradable polypyrrole/dextrin conductive nanocomposite: Synthesis, characterization, antioxidant and antibacterial activity. 2014, 187, 9-16  Therapeutic strategies to combat antibiotic resistance. 2014, 78, 14-27		50 37 110 200

519	Amine end-functionalized poly(2-ethyl-2-oxazoline) as promising coating material for antifouling applications. <b>2014</b> , 2, 4883-4893		50
518	Recyclable antibacterial material: silicon grafted with 3,6-O-sulfated chitosan and specifically bound by lysozyme. <b>2014</b> , 2, 569-576	2	26
517	Oligomeric dual functional antibacterial polycaprolactone. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 2453 4.9	) 1	25
516	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. <i>Polymer 4.9 Chemistry</i> , <b>2014</b> , 5, 4211-4214	) {	8
515	One-pot synthesis of antibacterial monomers with dual biocidal modes. <b>2014</b> , 42, 1078-95	2	23
514	Easy come easy go: surfaces containing immobilized nanoparticles or isolated polycation chains facilitate removal of captured Staphylococcus aureus by retarding bacterial bond maturation. <b>2014</b> , 8, 1180-90	Ĵ	39
513	Promising low cost antimicrobial composite material based on bacterial cellulose and polyhexamethylene guanidine hydrochloride. <i>European Polymer Journal</i> , <b>2014</b> , 60, 247-254	. z	48
512	Nanometer-scale self-assembly of amphiphilic copolymers to control and prevent biofouling. <b>2014</b> , 2, 8043-8052	:	13
511	Improved antibacterial behavior of titanium surface with torularhodin-polypyrrole film. <b>2014</b> , 42, 726-33	3	31
510	Nanostructured molybdenum oxide-based antibacterial paint: effective growth inhibition of various pathogenic bacteria. <b>2014</b> , 25, 315101	(	64
509	Removal of waterborne microorganisms by filtration using clay-polymer complexes. <b>2014</b> , 279, 190-6	Ĵ	31
508	Antimicrobial poly(2-methyloxazoline)s with bioswitchable activity through satellite group modification. <b>2014</b> , 53, 3830-4	;	78
507	Air-ozonolysis to generate contact active antimicrobial surfaces: activation of polyethylene and polystyrene followed by covalent graft of quaternary ammonium salts. <b>2014</b> , 122, 294-300	Ĵ	33
506	Polymer brush-based approaches for the development of infection-resistant surfaces. <b>2014</b> , 2, 4968-4978	(	99
505	On the design of supramolecular assemblies made of peptides and lipid bilayers. <b>2014</b> , 20, 526-36	-	13
504	Multivalent polymerAu nanocomposites with cationic surfaces displaying enhanced antimicrobial activity. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 3038-3044	) :	25
503	Synthesis and evaluation of antibacterial activity of quaternized biopolymer from Klebsiella terrigena. <b>2014</b> , 116, 511-8	-	10
502	Combating medical device fouling. <b>2014</b> , 32, 140-6		168

501	Amphiphilic macromolecules on cell membranes: from protective layers to controlled permeabilization. <b>2014</b> , 247, 861-81	37
500	Biologisch schaltbare antimikrobielle Poly(2-methyloxazoline) auf Grundlage des Satellitengruppeneffekts. <b>2014</b> , 126, 3908-3913	6
499	Antimicrobial Biopolymers. <b>2015</b> , 493-533	2
498	Prevention and Control of Biofilms in the Food Industry and Bio-Nanotechnology Approaches. <b>2015</b> , 84-130	
497	Nanoparticle Formulation of AEA and BAEA Cellulose Carbamates Increases Biocompatibility and Antimicrobial Activity. <b>2015</b> , 15, 1242-51	11
496	Nontoxic, Hydrophilic Cationic Polymers-Identified as Class of Antimicrobial Polymers. <b>2015</b> , 15, 1710-23	50
495	Biodegradable antimicrobial films based on poly(lactic acid) matrices and active azo compounds. <b>2015</b> , 132, n/a-n/a	24
494	Dual mode antibacterial activity of ion substituted calcium phosphate nanocarriers for bone infections. <b>2015</b> , 3, 59	17
493	Antibacterial/Antiviral Property and Mechanism of Dual-Functional Quaternized Pyridinium-type Copolymer. <i>Polymers</i> , <b>2015</b> , 7, 2290-2303	31
492	Antibacterial Drugs IFrom Basic Concepts to Complex Therapeutic Mechanisms of Polymer Systems. <b>2015</b> ,	4
491	From broad-spectrum biocides to quorum sensing disruptors and mussel repellents: antifouling profile of alkyl triphenylphosphonium salts. <b>2015</b> , 10, e0123652	31
490	Sfitesis verde y caracterizacifi de sfidos de matriz silflea con cobre y plata obtenidos a partir de dos precursores para su aplicacifi como aditivos antiffigicos. <b>2015</b> , 20, 612-620	3
489	. 2015,	3
488	. 2015,	12
487	Application of immobilized synthetic anti-lipopolysaccharide peptides for the isolation and detection of bacteria. <b>2015</b> , 34, 1639-45	4
486	Antibacterial Activity of Geminized Amphiphilic Cationic Homopolymers. <b>2015</b> , 31, 13469-77	39
485	Supercritical carbon dioxide design strategies: from drug carriers to soft killers. 2015, 373,	13
484	Antioxidant Hydroxytyrosol-Based Polyacrylate with Antimicrobial and Antiadhesive Activity Versus Staphylococcus Epidermidis. <b>2016</b> , 901, 25-36	8

### (2015-2015)

483	Influence of alkyl chain length on the surface activity of antibacterial polymers derived from ROMP. <b>2015</b> , 127, 73-8	26
482	Radiation-grafting of N-vinylimidazole onto silicone rubber for antimicrobial properties. <b>2015</b> , 110, 59-66	23
481	The roadmap of antimicrobial polymeric materials in macromolecular nanotechnology. <i>European Polymer Journal</i> , <b>2015</b> , 65, 46-62	130
480	Antimicrobial activity of hyperbranched polymers: Synthesis, characterization, and activity assay study. <b>2015</b> , 30, 145-156	10
479	Dual-function antibacterial surfaces for biomedical applications. <b>2015</b> , 16, 1-13	288
478	Enhanced Antimicrobial Activity of Amine-Phosphonium (N-P) Hybrid Polymers Against Gram-Negative and Gram-Positive Bacteria. <b>2015</b> , 64, 84-89	12
477	Nonquaternary poly(diallylammonium) polymers with different amine structure and their biocidal effect on Mycobacterium tuberculosis and Mycobacterium smegmatis. <b>2015</b> , 99, 2557-71	20
476	Role of molecular properties of ulvans on their ability to elaborate antiadhesive surfaces. <b>2015</b> , 103, 1021-8	19
475	Cationic polymer mediated bacterial clustering: Cell-adhesive properties of homo- and copolymers. <b>2015</b> , 95, 47-62	17
474	Antimicrobial polymeric materials with quaternary ammonium and phosphonium salts. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 3626-55	339
473	Assessing the antimicrobial activity of polyisoprene based surfaces. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 4392-415	7
472	Designing of dynamic polyethyleneimine (PEI) brushes on polyurethane (PU) ureteral stents to prevent infections. <b>2015</b> , 21, 44-54	47
471	Isolation and application of cellulosic fibres in composites. <b>2015</b> , 553-570	2
470	Antimicrobial and antioxidant amphiphilic random copolymers to address medical device-centered infections. <b>2015</b> , 22, 131-40	37
469	Controlling macromolecular structures towards effective antimicrobial polymers. 2015, 63, A1-A29	158
468	Antimicrobial materials with medical applications. <b>2015</b> , 30, B90-B95	73
467	Copolymers of acrylonitrile with quaternizable thiazole and triazole side-chain methacrylates as potent antimicrobial and hemocompatible systems. <b>2015</b> , 25, 86-96	19
466	Wettability modified aluminum surface for a potential antifungal surface. <b>2015</b> , 161, 234-239	18

465	A novel non-releasing antibacterial poly(styrene-acrylate)/waterborne polyurethane composite containing gemini quaternary ammonium salt. <b>2015</b> , 5, 89763-89770		20
464	Biocidal Properties of a Glycosylated Surface: Sophorolipids on Au(111). <b>2015</b> , 7, 18086-95		21
463	Antibacterial amphiphiles based on Epolylysine: synthesis, mechanism of action, and cytotoxicity. <b>2015</b> , 5, 69325-69333		17
462	Antibacterial and Biofilm-Disrupting Coatings from Resin Acid-Derived Materials. <i>Biomacromolecules</i> , <b>2015</b> , 16, 3336-44	6.9	62
461	Charge properties and bacterial contact-killing of hyperbranched polyurea-polyethyleneimine coatings with various degrees of alkylation. <b>2015</b> , 356, 325-332		14
460	Water-dispersible carbon nanotube prepared by non-destructive functionalization technique of admicellar polymerization. <b>2015</b> , 60, 111-116		8
459	Antimicrobial Contact-Active Oligo(2-oxazoline)s-Grafted Surfaces for Fast Water Disinfection at the Point-of-Use. <i>Biomacromolecules</i> , <b>2015</b> , 16, 3904-15	6.9	17
458	Polyelectrolyte Multilayers: A Versatile Tool for Preparing Antimicrobial Coatings. <b>2015</b> , 31, 12856-72		101
457	Mechanistic approaches on the antibacterial activity of poly(acrylic acid) copolymers. <b>2015</b> , 126, 98-105		26
456	The crosslinking of polysaccharides with polyamines and dextran-polyallylamine antibacterial hydrogels. <b>2015</b> , 72, 88-93		24
456 455			24
	hydrogels. <b>2015</b> , 72, 88-93	6.3	
455	hydrogels. <b>2015</b> , 72, 88-93  Antimicrobial micro/nanostructured functional polymer surfaces. <b>2016</b> , 153-192  Recent Advances in Antimicrobial Polymers: A Mini-Review. <i>International Journal of Molecular</i>	6.3	3
455 454	hydrogels. 2015, 72, 88-93  Antimicrobial micro/nanostructured functional polymer surfaces. 2016, 153-192  Recent Advances in Antimicrobial Polymers: A Mini-Review. <i>International Journal of Molecular Sciences</i> , 2016, 17,	6.3	3 169
455 454 453	hydrogels. 2015, 72, 88-93  Antimicrobial micro/nanostructured functional polymer surfaces. 2016, 153-192  Recent Advances in Antimicrobial Polymers: A Mini-Review. <i>International Journal of Molecular Sciences</i> , 2016, 17,  Recent Developments in Antimicrobial Polymers: A Review. 2016, 9,  Surface Functionalization of Polyethersulfone Membrane with Quaternary Ammonium Salts for	6.3	3 169 113
455 454 453 452	Antimicrobial micro/nanostructured functional polymer surfaces. 2016, 153-192  Recent Advances in Antimicrobial Polymers: A Mini-Review. International Journal of Molecular Sciences, 2016, 17,  Recent Developments in Antimicrobial Polymers: A Review. 2016, 9,  Surface Functionalization of Polyethersulfone Membrane with Quaternary Ammonium Salts for Contact-Active Antibacterial and Anti-Biofouling Properties. 2016, 9,  Structural, thermal and antibacterial properties of polyamide 11/polymeric biocide polyhexamethylene guanidine dodecylbenzenesulfonate composites. Journal of Materials Science,	4-3	3 169 113 25
455 454 453 452 451	Antimicrobial micro/nanostructured functional polymer surfaces. 2016, 153-192  Recent Advances in Antimicrobial Polymers: A Mini-Review. International Journal of Molecular Sciences, 2016, 17,  Recent Developments in Antimicrobial Polymers: A Review. 2016, 9,  Surface Functionalization of Polyethersulfone Membrane with Quaternary Ammonium Salts for Contact-Active Antibacterial and Anti-Biofouling Properties. 2016, 9,  Structural, thermal and antibacterial properties of polyamide 11/polymeric biocide polyhexamethylene guanidine dodecylbenzenesulfonate composites. Journal of Materials Science, 2016, 51, 7716-7730  Effects of Grafting Density and Film Thickness on the Adhesion of Staphylococcus epidermidis to	4-3	3 169 113 25 17

## (2016-2016)

447	Design of a hydroxyapatite-binding antimicrobial peptide with improved retention and antibacterial efficacy for oral pathogen control. <i>Scientific Reports</i> , <b>2016</b> , 6, 38410	30
446	Antimicrobial surface functionalization of PVC by a guanidine based antimicrobial polymer. <b>2016</b> , 67, 214-220	29
445	Development of silane grafted ZnO core shell nanoparticles loaded diglycidyl epoxy nanocomposites film for antimicrobial applications. <b>2016</b> , 64, 286-292	46
444	Cheap Synthesis, Characterization and Antibacterial Efficacy of New Copoly(o-Nitroaniline-co-o-Phenylenediamine) Emeraldine Base/Bentonite Composites. <b>2016</b> , 26, 691-701	19
443	Multi-biofunction of antimicrobial peptide-immobilized silk fibroin nanofiber membrane: Implications for wound healing. <b>2016</b> , 39, 146-155	149
442	Synthesis of antimicrobial block copolymers bearing immobilized bacteriostatic groups. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 3562-3575	17
441	Antibacterial surface design ©ontact kill. <b>2016</b> , 91, 136-153	154
440	Isobutylene-rich imidazolium ionomers for use in two-phase partitioning bioreactors. <b>2016</b> , 18, 6586-6595	3
439	Siderophores as molecular tools in medical and environmental applications. <b>2016</b> , 14, 8212-27	51
438	Influence of quaternization of ammonium on antibacterial activity and cytocompatibility of thin copolymer layers on titanium. <b>2016</b> , 27, 1507-19	9
437	Fabrication of transparent quaternized PVA/silver nanocomposite hydrogel and its evaluation as an antimicrobial patch for wound care systems. <b>2016</b> , 27, 160	16
436	Antimicrobial Graft Copolymer Gels. <i>Biomacromolecules</i> , <b>2016</b> , 17, 2710-8	12
435	Potential of the polymer poly-[2-(tert-butylamino) methylstyrene] as antimicrobial packaging material for meat products. <b>2016</b> , 121, 1059-70	5
434	Dual antimicrobial effects induced by hydrogel incorporated with UV-curable quaternary ammonium polyethyleneimine and AgNO3. <b>2016</b> , 68, 494-504	12
433	Perspectives on polymeric nanostructures for the therapeutic application of antimicrobial peptides. <b>2016</b> , 11, 1729-44	32
432	A Novel Surface Structure Consisting of Contact-active Antibacterial Upper-layer and Antifouling Sub-layer Derived from Gemini Quaternary Ammonium Salt Polyurethanes. <i>Scientific Reports</i> , <b>2016</b> , 4.9 6, 32140	60
431	Effect of the incorporation of chitosan on the physico-chemical, mechanical properties and biological activity on a mixture of polycaprolactone and polyurethanes obtained from castor oil. <b>2016</b> , 31, 708-720	13
430	Antimicrobial activity of a quaternary ammonium methacryloxy silicate-containing acrylic resin: a randomised clinical trial. <i>Scientific Reports</i> , <b>2016</b> , 6, 21882	23

429	Biosilver nanoparticle interface offers improved cell viability. <b>2016</b> , 4, 121-132	12
428	Using Chemoattractants to Lure Bacteria to Contact-Killing Surfaces. <b>2016</b> , 55, 5698-702	15
427	A review on medical applications of poly(N-vinylcarbazole) and its derivatives. <b>2016</b> , 65, 888-900	8
426	Admicellar Polymerization and Its Application in Textiles. <b>2016</b> , 35, 307-325	12
425	Using Chemoattractants to Lure Bacteria to Contact-Killing Surfaces. <b>2016</b> , 128, 5792-5796	2
424	Development of biomaterial surfaces with and without microbial nanosegments. <b>2016</b> , 36, 1-12	4
423	Antifouling and Antibacterial Multifunctional Polyzwitterion/Enzyme Coating on Silicone Catheter Material Prepared by Electrostatic Layer-by-Layer Assembly. <b>2016</b> , 32, 1347-59	101
422	Bacterial membranes are the target for antimicrobial polysiloxane-methacrylate copolymer. <b>2016</b> , 27, 55	14
421	Characterization and application of roxithromycin loaded cyclodextrin based nanoparticles for treatment of multidrug resistant bacteria. <b>2016</b> , 61, 1-7	16
420	Engineering serendipity: High-throughput discovery of materials that resist bacterial attachment. <b>2016</b> , 34, 84-92	18
419	Design and synthesis of biodegradable grafted cationic polycarbonates as broad spectrum antimicrobial agents. <b>2016</b> , 54, 1029-1035	14
418	Quantitative Comparison of the Antimicrobial Efficiency of Leaching versus Nonleaching Polymer Materials. <b>2016</b> , 16, 647-54	24
417	Antimicrobial peptide melimine coating for titanium and its in vivo antibacterial activity in rodent subcutaneous infection models. <b>2016</b> , 85, 142-51	126
416	In vivo comparative study of tissue reaction to bare and antimicrobial polymer coated	
	transcutaneous implants. <b>2016</b> , 61, 712-9	7
415		7 15
	Antimicrobial Activity of Amphiphilic Triazole-Linked Polymers Derived from Renewable Sources.	
415	Antimicrobial Activity of Amphiphilic Triazole-Linked Polymers Derived from Renewable Sources.  2016, 2, 336-343  Toward Cell Selective Surfaces: Cell Adhesion and Proliferation on Breath Figures with Antifouling	15

### (2017-2016)

411	Synthesis of cationized nanofibrillated cellulose and its antimicrobial properties. <i>European Polymer Journal</i> , <b>2016</b> , 75, 116-124	51
410	Antimicrobial films obtained from latex particles functionalized with quaternized block copolymers. <b>2016</b> , 140, 94-103	16
409	High durability and low toxicity antimicrobial coatings fabricated by quaternary ammonium silane copolymers. <b>2016</b> , 4, 299-309	38
408	Biofouling suppression of modified feed spacers: Localized and long-distance antibacterial activity. <b>2016</b> , 393, 159-165	9
407	Enhancing antimicrobial activity of TiO2/Ti by torularhodin bioinspired surface modification. <b>2016</b> , 107, 14-24	38
406	Modification of medical grade PVC with N-vinylimidazole to obtain bactericidal surface. <b>2016</b> , 119, 37-43	33
405	Advances in biofouling mitigation: A review. <b>2016</b> , 46, 535-555	57
404	Assessment of PVA/silver nanocomposite hydrogel patch as antimicrobial dressing scaffold: Synthesis, characterization and biological evaluation. <b>2016</b> , 59, 109-119	96
403	X-ray Reflectivity Study of the Interaction of an Imidazolium-Based Ionic Liquid with a Soft Supported Lipid Membrane. <b>2017</b> , 33, 1295-1304	44
402	Nontoxic Cationic Coumarin Polyester Coatings Prevent Pseudomonas aeruginosa Biofilm Formation. <b>2017</b> , 9, 6704-6711	28
401	Recent progress in marine foul-release polymeric nanocomposite coatings. <b>2017</b> , 87, 1-32	228
400	Antimicrobial activity of chemically modified dextran derivatives. <b>2017</b> , 161, 181-186	23
399	Autoclaving-Derived Surface Coating with In Vitro and In Vivo Antimicrobial and Antibiofilm Efficacies. <b>2017</b> , 6, 1601173	73
398	Rationally designed dual functional block copolymers for bottlebrush-like coatings: In vitro and in vivo antimicrobial, antibiofilm, and antifouling properties. <b>2017</b> , 51, 112-124	120
397	Effect of variable aminoalkyl chains on chemical grafting of cellulose nanofiber and their antimicrobial activity. <b>2017</b> , 75, 760-768	44
396	Controlling bacterial fouling with polyurethane/-halamine semi-interpenetrating polymer networks. <b>2017</b> , 32, 542-554	16
395	Synthesis and characterization of novel water-soluble and bactericidic cationic starch esters. <b>2017</b> , 69, 1700029	10
394	A Simultaneously Antimicrobial, Protein-Repellent, and Cell-Compatible Polyzwitterion Network. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1373-1386	43

393	Nanocomposite coatings for implants protection from microbial colonization: Formation features, structure, and properties. <b>2017</b> , 315, 350-358		9
392	Phosphonium-Functionalized Polymer Micelles with Intrinsic Antibacterial Activity. <i>Biomacromolecules</i> , <b>2017</b> , 18, 914-923	6.9	41
391	Promising silicones modified with cationic biocides for the development of antimicrobial medical devices. <b>2017</b> , 75, 969-979		14
390	Evaluation of antibacterial activity of branched quaternary ammonium grafted green polymers. <b>2017</b> , 12, 28-41		12
389	Silica-based bioactive solids obtained from modified diatomaceous earth to be used as antimicrobial filler material. <b>2017</b> , 194, 130-134		13
388	Antifouling and antimicrobial biomaterials: an overview. <b>2017</b> , 125, 392-417		150
387	Enhanced antibacterial efficacy of nitric oxide releasing thermoplastic polyurethanes with antifouling hydrophilic topcoats. <b>2017</b> , 5, 1246-1255		46
386	On-Demand Gas-to-Liquid Process To Fabricate Thermoresponsive Antimicrobial Nanocomposites and Coatings. <b>2017</b> , 9, 15342-15349		14
385	Graft polymer synthesis by RAFT transfer-to. <b>2017</b> , 55, 2865-2876		31
384	Applications and Current Status of Antimicrobial Polymers. <b>2017</b> , 255-278		
383	Chemical Approaches to Prepare Antimicrobial Polymers. <b>2017</b> , 39-69		1
382	Combined Spear and shield Superhydrophilic antimicrobial and antifouling mesh membrane for efficient oil water separation through facile and environmentally friendly strategy. <b>2017</b> , 14, 243-253		3
381	Photochemical generation of antimicrobial Ag-nanoparticles in intraocular lenses. 2017,		
380	Influence of nanoscale topology on bactericidal efficiency of black silicon surfaces. <b>2017</b> , 28, 245301		76
379	Synthesis and Antibacterial Activity of Polymerizable Acryloyloxyalkyltriethyl Ammonium Salts. <b>2017</b> , 82, 1235-1244		10
378	Evaluation of the Antimicrobial Activity of Cationic Polymers against Mycobacteria: Toward Antitubercular Macromolecules. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1592-1599	6.9	57
377	Facile Incorporation of Silver Nanoparticles into Quaternized Poly(2-(Dimethylamino)Ethyl Methacrylate) Brushes as Bifunctional Antibacterial Coatings. <b>2017</b> , 302, 1700069		15
376	Hydrogels with Modulated Ionic Load for Mammalian Cell Harvesting with Reduced Bacterial Adhesion. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1521-1531	6.9	12

375	Competitive Adsorption of Polyelectrolytes onto and into Pellicle-Coated Hydroxyapatite Investigated by QCM-D and Force Spectroscopy. <b>2017</b> , 9, 13079-13091		13
374	Developments in antimicrobial polymers. <b>2017</b> , 55, 632-639		32
373	Antimicrobial resistance challenged with metal-based antimicrobial macromolecules. <b>2017</b> , 118, 27-50		59
372	Feasibility Study Exploring the Potential of Novel Battacin Lipopeptides as Antimicrobial Coatings. <b>2017</b> , 9, 1373-1383		33
371	Multifunctional methacrylate-based coatings for glass and metal surfaces. <b>2017</b> , 399, 205-214		13
370	Biosynthesized silver nanoparticles to control fungal infections in indoor environments. <b>2017</b> , 8, 02500	5	18
369	Single-Step Antimicrobial And Moisture Management Finishing Of Pc Fabric Using Zno Nanoparticles. <b>2017</b> , 17, 259-262		8
368	Poly(methyl 6-acryloyl-Ed-glucosaminoside) as a Cationic Glycomimetic of Chitosan. <i>Biomacromolecules</i> , <b>2017</b> , 18, 4133-4140	6.9	8
367	Contact Active Antimicrobial Coatings Prepared by Polymer Blending. 2017, 17, 1700258		12
366	Thiabicyclononane-Based Antimicrobial Polycations. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15401-15406	16.4	26
365	Fabrication of Nontoxic Reduced Graphene Oxide Protein Nanoframework as Sustained Antimicrobial Coating for Biomedical Application. <b>2017</b> , 9, 38255-38269		40
364	Antimicrobial strategies for polymeric hygienic surfaces in healthcare. <b>2017</b> , 125, 214-227		11
363	Poly(2-oxazoline)-Antibiotic Conjugates with Penicillins. 2017, 28, 2440-2451		25
362	Polymer-Based Surfaces Designed to Reduce Biofilm Formation: From Antimicrobial Polymers to Strategies for Long-Term Applications. <b>2017</b> , 38, 1700216		49
361	Squid suckerin microneedle arrays for tunable drug release. <b>2017</b> , 5, 8467-8478		19
360	Non-leaching antibacterial cotton fabrics based on lipidated peptides. <b>2017</b> , 7, 34267-34275		11
359	Sum frequency generation vibrational spectroscopy of methacrylate-based functional monomers at the hydrophilic solid-liquid interface. <b>2017</b> , 19, 21818-21828		15
358	Natural and bioinspired nanostructured bactericidal surfaces. <b>2017</b> , 248, 85-104		259

357	Antibacterial glass-ionomer cement restorative materials: A critical review on the current status of extended release formulations. <b>2017</b> , 262, 317-328	82
356	Antibacterial activity and cytotoxycity of gelatine-conjugated lysine-based peptides. 2017, 105, 3110-3126	3
355	Antimicrobial Activity and Cell Selectivity of Synthetic and Biosynthetic Cationic Polymers. <b>2017</b> , 61,	34
354	Noncytotoxic polycaprolactone-polyethyleneglycol-Epoly(L-lysine) triblock copolymer synthesized and self-assembled as an antibacterial drug carrier. <b>2017</b> , 7, 39718-39725	9
353	The current state and development of perspectives of application of synthetic antimicrobial agents. <b>2017</b> , 10, 293-299	3
352	Surface Functionalization of Biomaterials. <b>2017</b> , 457-490	7
351	UV-Curable Contact Active Benzophenone Terminated Quaternary Ammonium Antimicrobials for Applications in Polymer Plastics and Related Devices. <b>2017</b> , 9, 27491-27503	15
350	Highly Efficient Antibacterial Surfaces Based on Bacterial/Cell Size Selective Microporous Supports. <b>2017</b> , 9, 44270-44280	22
349	Effect of different packaging materials containing poly-[2-(tert-butylamino) methylstyrene] on the growth of spoilage and pathogenic bacteria on fresh meat. <b>2017</b> , 257, 91-100	6
348	Comparison of methods to evaluate bacterial contact-killing materials. <b>2017</b> , 59, 139-147	46
347	Functional Colloidal Stabilization. <b>2017</b> , 4, 1600443	33
346	Antimicrobial properties of bio-inspired poly(4-vinyl-2-pyridone) and its N-alkylated cationic derivatives. <b>2017</b> , 66, 119-125	2
345	Use of high-intensity ultrasound for production of antimicrobial and self-cleaning surfaces. <b>2017</b> , 229-264	2
344	Chlorhexidine Loaded Cyclodextrin Containing PMMA Nanogels as Antimicrobial Coating and Delivery Systems. <b>2017</b> , 17, 1600230	15
343	Polymers against Microorganisms. <b>2017</b> ,	8
342	Antimicrobial/Antifouling Surfaces Obtained by Surface Modification. <b>2017</b> , 95-123	1
341	Antimicrobial polymers: Antibacterial efficacy of silicone rubber <b>E</b> itanium dioxide composites. <b>2017</b> , 51, 2253-2262	10
340	Biocidal Polymers: A Mechanistic Overview. <b>2017</b> , 57, 276-310	40

339	Simple and versatile method for creation of non-leaching antimicrobial surfaces based on cross-linked alkylated polyethyleneimine derivatives. <b>2017</b> , 70, 788-795		19
338	Nanoantimicrobials. <b>2017</b> , 23-54		13
337	Time-Dependent Antimicrobial Activity of Filtering Nonwovens with Gemini Surfactant-Based Biocides. <i>Molecules</i> , <b>2017</b> , 22,	4.8	13
336	Synthesis, Structure, Surface and Antimicrobial Properties of New Oligomeric Quaternary Ammonium Salts with Aromatic Spacers. <i>Molecules</i> , <b>2017</b> , 22,	4.8	19
335	Antimicrobial Polymers in the Nano-World. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	95
334	pH Sensitive Hydrogels in Drug Delivery: Brief History, Properties, Swelling, and Release Mechanism, Material Selection and Applications. <i>Polymers</i> , <b>2017</b> , 9,	4.5	246
333	Infections in Cystic Fibrosis Patients: Drug Resistance and Therapeutic Approaches. <b>2017</b> , 8, 1592		70
332	Multifunctional Gemini Surfactants: Structure, Synthesis, Properties and Applications. 2017,		22
331	Antimicrobial Polymeric Nanostructures. <b>2017</b> , 85-115		2
330	Polymers for binding of the gram-positive oral pathogen Streptococcus mutans. <b>2017</b> , 12, e0180087		11
329	Controlling the Structure and Antimicrobial Function of N-Halamine-Based Polyurethane Semi-interpenetrating Polymer Networks. <b>2017</b> , 56, 12032-12037		10
328	Nanostructured antimicrobial materials in the food industry. <b>2017</b> , 75-124		1
327	Innovative Modifications for Preventing Mesh Infections. 2017, 09,		1
326	Nanoscience-Based Strategies to Engineer Antimicrobial Surfaces. <b>2018</b> , 5, 1700892		55
325	Telechelic, Antimicrobial Hydrophilic Polycations with Two Modes of Action. 2018, 18, e1700389		7
324	Microbicidal gentamicin-alginate hydrogels. <b>2018</b> , 186, 159-167		33
323	Potential of antimicrobial treatment of linear low-density polyethylene with poly((tert-butyl-amino)-methyl-styrene) to reduce biofilm formation in the food industry. <b>2018</b> , 34, 378-3	387	6
322	Antibacterial poly{(4-vinyl phenylboronic acid)-co-[2-(dimethylamino)ethyl methacrylate]} copolymers and their application in water-based paints. <b>2018</b> , 135, 46245		7

321	Recent advances on antimicrobial wound dressing: A review. 2018, 127, 130-141		395
320	Durably Antibacterial and Bacterially Antiadhesive Cotton Fabrics Coated by Cationic Fluorinated Polymers. <b>2018</b> , 10, 6124-6136		257
319	Antibacterial Coatings on Medical Devices. <b>2018</b> , 487-507		2
318	PDMS tri-block copolymers bearing quaternary ammonium salts for epidermal antimicrobial agents: Synthesis, surface adsorption and non-skin-penetration. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 124, 20-28	4.6	15
317	A new textured polyphosphazene biomaterial with improved blood coagulation and microbial infection responses. <b>2018</b> , 67, 87-98		19
316	Antibacterial and Biocompatible Cross-Linked Waterborne Polyurethanes Containing Gemini Quaternary Ammonium Salts. <i>Biomacromolecules</i> , <b>2018</b> , 19, 279-287	6.9	60
315	Paprika, Gallic Acid, and Visible Light: The Green Combination for the Synthesis of Biocide Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 104-109	8.3	29
314	Smart functional polymer coatings for paper with anti-fouling properties. <b>2018</b> , 6, 830-843		16
313	Recent Progress in Polymer Research to Tackle Infections and Antimicrobial Resistance. <i>Biomacromolecules</i> , <b>2018</b> , 19, 1888-1917	6.9	130
312	Fast preparation of biopassive nonfouling coatings on cellulose. <b>2018</b> , 15, 703-712		7
311	Virus reduction through microfiltration membranes modified with a cationic polymer for drinking water applications. <b>2018</b> , 551, 33-41		37
310	Highly efficient antimicrobial electrospun PVP/CS/PHMGH nanofibers membrane: preparation, antimicrobial activity and in vitro evaluations. <b>2018</b> , 44, 4957-4970		6
309	Cationic polymeric N-halamines bind onto biofilms and inactivate adherent bacteria. <b>2018</b> , 166, 210-217	7	8
308	Synthesis and Characterization of Aqueous Chitosan-polyurethanes Dispersion for Textile Applications with Multipurpose Performance Profile. <b>2018</b> , 19, 587-598		10
307	Synthesis of bactericidal polymer coatings by sequential plasma-induced polymerization of 4-vinyl pyridine and gas-phase quaternization of poly-4-vinyl pyridine. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 8766-8785	4.3	9
306	Antibacterial properties of chitosan-based coatings are affected by spacer-length and molecular weight. <b>2018</b> , 445, 478-487		32
305	Effects of multiscale rice straw ( Oryza sativa ) as reinforcing filler in montmorillonite-polyvinyl alcohol biocomposite packaging film for enhancing the storability of postharvest mango fruit (		26
	Mangifera indica L.). <b>2018</b> , 158, 1-10		

### (2018-2018)

303	The role of prepared ZnO nanoparticles on improvement of mechanical and antibacterial properties of flexible polyurethane foams: experimental modeling. <b>2018</b> , 75, 1519-1533		9
302	Antimicrobial cationic polymers: from structural design to functional control. <b>2018</b> , 50, 33-44		133
301	Self-antibacterial UV-curable waterborne polyurethane with pendant amine and modified by guanidinoacetic acid. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 215-229	4.3	27
300	Antimicrobial and Antifouling Strategies for Polymeric Medical Devices. <b>2018</b> , 7, 16-25		135
299	. 2018,		7
298	Superhydrophobic Surfaces Toward Prevention of Biofilm- Associated Infections. 2018,		2
297	Antibacterial Polymers 🖪 Mini Review. <b>2018</b> , 5, 17156-17161		17
296	. 2018,		3
295	Quaternary Ammonium Compound Functionalized Activated Carbon Electrode for Capacitive Deionization Disinfection. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 17204-17210	8.3	9
294	Providing Antibacterial Activity to Poly(2-Hydroxy Ethyl Methacrylate) by Copolymerization with a Methacrylic Thiazolium Derivative. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	11
293	Surface-Attached Poly(oxanorbornene) Hydrogels with Antimicrobial and Protein-Repellent Moieties: The Quest for Simultaneous Dual Activity. <b>2018</b> , 11,		7
292	Drug-free antibacterial polymers for biomedical applications. 2018,		4
291	Antimicrobial LDPE/EVOH Layered Films Containing Carvacrol Fabricated by Multiplication Extrusion. <i>Polymers</i> , <b>2018</b> , 10,	4.5	14
290	Investigation of Polyaniline and a Functionalised Derivative as Antimicrobial Additives to Create Contamination Resistant Surfaces. <b>2018</b> , 11,		10
289	Design and Processing Aspects of Polymer and Composite Materials. 2018, 155-189		5
288	Evaluation of the Bactericidal and Fungicidal Activities of Poly([2-(methacryloyloxy)ethyl]trimethyl Ammonium Chloride)(Poly (METAC))-Based Materials. <i>Polymers</i> , <b>2018</b> , 10,	4.5	3
287	Poly(silsesquioxanes) and poly(siloxanes) grafted with N-acetylcysteine for eradicating mature bacterial biofilms in water environment. <b>2018</b> , 172, 627-634		15
286	Development of direct contact-killing non-leaching antimicrobial polyurethanes through click chemistry. <b>2018</b> , 15, 1239-1250		6

285	Controlled grafted poly(quaternized-4-vinylpyridine-co-acrylic acid) brushes attract bacteria for effective antimicrobial surfaces. <b>2018</b> , 6, 3782-3791		11
284	Electroactive Mg-Hydroxyapatite Nanostructured Networks against Drug-Resistant Bone Infection Strains. <b>2018</b> , 10, 19534-19544		22
283	Poly(ionic liquid)s as antimicrobial materials. European Polymer Journal, 2018, 105, 135-149	5.2	52
282	Structural changes in cellular membranes induced by ionic liquids: From model to bacterial membranes. <b>2018</b> , 215, 1-10		20
281	Progress in polymer-derived functional silicon-based ceramic composites for biomedical and engineering applications. <b>2018</b> , 5, 062003		16
280	Synthesis of novel guanidine-based ABA triblock copolymers and their antimicrobial honeycomb films. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3922-3930	4.9	11
279	Polymer-Based Antimicrobial Coatings as Potential Biomaterials. <b>2018</b> , 27-61		2
278	Insights into the Kinetics of the Resistance Formation of Bacteria against Ciprofloxacin Poly(2-methyl-2-oxazoline) Conjugates. <b>2018</b> , 29, 2671-2678		7
277	Novel Antibacterial Polyglycidols: Relationship between Structure and Properties. <i>Polymers</i> , <b>2018</b> , 10,	4.5	5
276	Reduced bacterial colonisation on surfaces coated with silicone nanostructures. <b>2018</b> , 459, 505-511		8
275	Inhibiting Pathogen Surface Adherence by Multilayer Polyelectrolyte Films Functionalized with Glucofuranose Derivatives. <b>2018</b> , 10, 28147-28158		5
274	Simultaneously Antimicrobial, Protein-repellent and Cell-compatible Polyzwitterion Networks: More Insight on Bioactivity and Physical Properties. <b>2018</b> , 1, 613-626		9
273	Advances in Nanofibers for Antimicrobial Drug Delivery. <b>2018</b> , 1-42		4
272	A Degradable and Antimicrobial Surface-attached Polymer Hydrogel. <i>Macromolecular Chemistry and Physics</i> , <b>2018</b> , 219, 1800198	2.6	4
271	Polymeric Antimicrobial Coatings Based on Quaternary Ammonium Compounds. 2018, 8, 8		24
270	Quantitative Assessment of Antimicrobial Activity of PLGA Films Loaded with 4-Hexylresorcinol. <b>2018</b> , 9,		18
269	Tailoring Macromolecular Structure of Cationic Polymers towards Efficient Contact Active Antimicrobial Surfaces. <i>Polymers</i> , <b>2018</b> , 10,	4.5	15
268	Nanocellulose in Food Packaging. <b>2018</b> , 297-329		3

267	Design of intelligent surfaces for energy intensive processing industry. <b>2018</b> , 185, 00001	2
266	Versatile Antibacterial Materials: An Emerging Arsenal for Combatting Bacterial Pathogens. <b>2018</b> , 28, 1802140	241
265	Nanoparticles and Antimicrobial Food Packaging. 2018,	5
264	Antibacterial surface modification of titanium implants in orthopaedics. <b>2018</b> , 9, 2041731418789838	73
263	Viable adhered Staphylococcus aureus highly reduced on novel antimicrobial sutures using chlorhexidine and octenidine to avoid surgical site infection (SSI). <b>2018</b> , 13, e0190912	16
262	The Importance of Antibacterial Surfaces in Biomedical Applications. <b>2018</b> , 28, 115-165	20
261	Antibacterial activities and biocompatibilities of Ti-Ag alloys prepared by spark plasma sintering and acid etching. <b>2018</b> , 92, 121-131	56
260	Antimicrobial and anti-quorum-sensing properties and paint film usage of novel diazaborine-based copolymers. <b>2019</b> , 136, 46907	8
259	Antimicrobial and antibiofilm activity of polyurethane/Hypericum perforatum extract (PHPE) composite. <b>2019</b> , 82, 224-228	14
258	Antimicrobial Properties of PolyelectrolyteAmphiphilic Surfactant Complexes Containing Quaternary Ammonium Groups. <b>2019</b> , 61, 475-479	
257	Functional Finishes for Cotton-Based Textiles: Current Situation and Future Trends. <b>2019</b> , 131-190	10
256	The Antibacterial Properties and Safety of a Nanoparticle-Coated Parquet Floor. <b>2019</b> , 9, 403	6
255	Advances in Nanofibers for Antimicrobial Drug Delivery. <b>2019</b> , 733-774	
254	Superhydrophobic antibacterial polymer coatings. <b>2019</b> , 245-279	6
253	Combinations of Antimicrobial Polymers with Nanomaterials and Bioactives to Improve Biocidal Therapies. <i>Polymers</i> , <b>2019</b> , 11,	18
252	Telechelic biocidal poly(2-oxazoline)s and polycations. <i>European Polymer Journal</i> , <b>2019</b> , 120, 109233 5.2	11
251	Adhesive antibacterial coatings based on copolymers bearing thiazolium cationic groups and catechol moieties as robust anchors. <b>2019</b> , 136, 105272	10
250	Nanoparticles at biointerfaces: Antibacterial activity and nanotoxicology. <b>2019</b> , 184, 110550	24

249	Bench-scale column evaluation of factors associated with changes in N-nitrosodimethylamine (NDMA) precursor concentrations during drinking water biofiltration. <b>2019</b> , 167, 115103	8
248	Polymeric nanoparticles-based multi-functional coatings on NiTi alloy with nickel ion release control, cytocompatibility, and antibacterial performance. <b>2019</b> , 43, 1551-1561	6
247	Preparation and Evaluation of Antimicrobial Hyperbranched Emulsifiers for Waterborne Coatings. <b>2019</b> , 35, 5779-5786	8
246	Supramolecular Switching Surface for Antifouling and Bactericidal Activities <b>2019</b> , 2, 638-643	10
245	Surface-attached sulfonamide containing quaternary ammonium antimicrobials for textiles and plastics <b>2019</b> , 9, 3140-3150	5
244	Polyhydroxyalkanoates Applications in Antimicrobial Agents Delivery and Wound Healing. <b>2019</b> , 49-76	2
243	A new approach to fabricate polyimidazolium salt (PIMS) coatings with efficient antifouling and antibacterial properties. <b>2019</b> , 478, 770-778	8
242	Influence of poly-l-lysine molecular weight on antibacterial efficacy in polymer multilayer films. <b>2019</b> , 107, 1324-1339	19
241	Antibacterial Activity of Polymers: Discussions on the Nature of Amphiphilic Balance. <b>2019</b> , 131, 3728-3731	15
240	Tuning the physicochemical properties of hernia repair meshes by matrix-assisted pulsed laser evaporation. <b>2019</b> , 125, 1	5
239	Biocidal activity of ROMP- polymer coatings containing quaternary phosphonium groups. <b>2019</b> , 135, 299-305	6
238	Graphene oxide immobilized surfaces facilitate the sustained release of doxycycline for the prevention of implant related infection. <b>2019</b> , 181, 576-584	10
237	Dual-functional antimicrobial coating based on a quaternary ammonium salt from rosin acid with in vitro and in vivo antimicrobial and antifouling properties. <b>2019</b> , 374, 564-575	53
236	A review on various maleic anhydride antimicrobial polymers. <b>2019</b> , 163, 105650	38
235	Practical Preparation of Infection-Resistant Biomedical Surfaces from Antimicrobial Peptide Polymers. <b>2019</b> , 11, 18907-18913	56
234	Lipid-Based Quaternary Ammonium Sophorolipid Amphiphiles with Antimicrobial and Transfection Activities. <b>2019</b> , 12, 3642-3653	11
233	Stable and self-healable LbL coating with antibiofilm efficacy based on alkylated polyethyleneimine micelles. <b>2019</b> , 7, 3865-3875	17
232	Quaternary ammonium compound derivatives for biomedical applications. <b>2019</b> , 153-175	2

231	Cellulose Model Surfaces. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2075-2083	6.9	21
230	Synthesis and Antibacterial Activities of Boronic Acid-Based Recyclable Spherical Polymer Brushes. <b>2019</b> , 27, 640-648		1
229	Surface Structuring Combined with Chemical Surface Functionalization: An Effective Tool to Manipulate Cell Adhesion. <i>Molecules</i> , <b>2019</b> , 24,	4.8	4
228	Supramolecular concepts and approaches in corrosion and biofouling prevention. <b>2019</b> , 37, 187-230		23
227	Opportunities of Bacterial Cellulose to Treat Epithelial Tissues. <b>2019</b> , 20, 808-822		26
226	Amide-Based Cationic Polymeric N-Halamines: Synthesis, Characterization, and Antimicrobial and Biofilm-Binding Properties. <b>2019</b> , 58, 6218-6225		4
225	Bio-Based Polymers with Antimicrobial Properties towards Sustainable Development. <b>2019</b> , 12,		74
224	Enhanced corrosion protection property of Li-Al layered double hydroxides (LDHs) film modified by 2-guanidinosuccinic acid with excellent self-repairing and self-antibacterial properties. <b>2019</b> , 480, 384-3	94	14
223	Low intensity electric field inactivation of Gram-positive and Gram-negative bacteria via metal-free polymeric composite. <b>2019</b> , 99, 827-837		10
222	Antibiotic-Free Cationic Dendritic Hydrogels as Surgical-Site-Infection-Inhibiting Coatings. <b>2019</b> , 8, e180	)1619	11
222	Antibiotic-Free Cationic Dendritic Hydrogels as Surgical-Site-Infection-Inhibiting Coatings. 2019, 8, e180 Self-Regenerating Antimicrobial Polymer Surfaces via Multilayer-Design - Sequential and Triggered Layer Shedding under Physiological Conditions. 2019, 6, 1802049	)1619	10
	Self-Regenerating Antimicrobial Polymer Surfaces via Multilayer-Design - Sequential and Triggered	)1619	
221	Self-Regenerating Antimicrobial Polymer Surfaces via Multilayer-Design - Sequential and Triggered Layer Shedding under Physiological Conditions. <b>2019</b> , 6, 1802049  Synthesis of 1,4-diazabicyclo[2.2.2]octane and pyridinium based cationic polymers via ROMP	6.3	
221	Self-Regenerating Antimicrobial Polymer Surfaces via Multilayer-Design - Sequential and Triggered Layer Shedding under Physiological Conditions. 2019, 6, 1802049  Synthesis of 1,4-diazabicyclo[2.2.2]octane and pyridinium based cationic polymers via ROMP technique and examination of their antibacterial activity and cytotoxicity. 2019, 5, 100246  Antibiofilm Activity of Polyamide 11 Modified with Thermally Stable Polymeric Biocide Polyhexamethylene Guanidine 2-Naphtalenesulfonate. <i>International Journal of Molecular Sciences</i> ,		10
221 220 219	Self-Regenerating Antimicrobial Polymer Surfaces via Multilayer-Design - Sequential and Triggered Layer Shedding under Physiological Conditions. 2019, 6, 1802049  Synthesis of 1,4-diazabicyclo[2.2.2]octane and pyridinium based cationic polymers via ROMP technique and examination of their antibacterial activity and cytotoxicity. 2019, 5, 100246  Antibiofilm Activity of Polyamide 11 Modified with Thermally Stable Polymeric Biocide Polyhexamethylene Guanidine 2-Naphtalenesulfonate. <i>International Journal of Molecular Sciences</i> , 2019, 20,		10
221 220 219 218	Self-Regenerating Antimicrobial Polymer Surfaces via Multilayer-Design - Sequential and Triggered Layer Shedding under Physiological Conditions. 2019, 6, 1802049  Synthesis of 1,4-diazabicyclo[2.2.2]octane and pyridinium based cationic polymers via ROMP technique and examination of their antibacterial activity and cytotoxicity. 2019, 5, 100246  Antibiofilm Activity of Polyamide 11 Modified with Thermally Stable Polymeric Biocide Polyhexamethylene Guanidine 2-Naphtalenesulfonate. International Journal of Molecular Sciences, 2019, 20,  Structural and antibacterial studies of rice straw based zno nanocomposite. 2019, 577, 012136		10 4 7
221 220 219 218 217	Self-Regenerating Antimicrobial Polymer Surfaces via Multilayer-Design - Sequential and Triggered Layer Shedding under Physiological Conditions. 2019, 6, 1802049  Synthesis of 1,4-diazabicyclo[2.2.2]octane and pyridinium based cationic polymers via ROMP technique and examination of their antibacterial activity and cytotoxicity. 2019, 5, 100246  Antibiofilm Activity of Polyamide 11 Modified with Thermally Stable Polymeric Biocide Polyhexamethylene Guanidine 2-Naphtalenesulfonate. <i>International Journal of Molecular Sciences</i> , 2019, 20,  Structural and antibacterial studies of rice straw based zno nanocomposite. 2019, 577, 012136  The antibacterial surface based on polymer brush. 2019, 612, 052012  Three-Dimensional, Bifunctional Microstructured Polymer Hydrogels Made from Polyzwitterions		10 4 7

213	Recent Developments in Phosphonium Chemistry. <b>2019</b> , 59-111		4
212	Synthesis, Characterization, and Fabrication of Hydrophilic Antimicrobial Polymer Thin Film Coatings. <b>2019</b> , 27, 301-309		10
211	A new approach to fabricate superhydrophobic and antibacterial low density isotropic pyrocarbon by using catalyst free chemical vapor deposition. <b>2019</b> , 145, 359-366		20
210	Synthesis and characterization of a ROMP-based polycationic antimicrobial hydrogel. <i>European Polymer Journal</i> , <b>2019</b> , 112, 365-375	5.2	7
209	Implantable antimicrobial biomaterials for local drug delivery in bone infection models. <b>2019</b> , 93, 2-11		53
208	Synthesis and characterization of antimicrobial polylactide via ring-opening polymerization and click chemistry methods. <b>2019</b> , 68, 385-393		6
207	Facile fabrication of gelatin and polycaprolactone based bilayered membranes via spin coating method with antibacterial and cyto-compatible properties. <b>2019</b> , 124, 699-707		13
206	Natural Products Applied to Antimicrobial Coatings. <b>2019</b> , 60, 485-508		3
205	Biostable, antidegradative and antimicrobial restorative systems based on host-biomaterials and microbial interactions. <b>2019</b> , 35, 36-52		30
204	Micro/Nano Fabrication and Packaging Technologies for Bio Systems. <b>2020</b> , 89-137		1
203	Biofilm formation to inhibition: Role of zinc oxide-based nanoparticles. <b>2020</b> , 108, 110319		56
202	Fast-Acting Antibacterial, Self-Deactivating Polyionene Esters. <b>2020</b> , 12, 21201-21209		9
201	Synthesis and molecular characterization of chitosan/starch blends based polyurethanes. <b>2020</b> , 146, 243-252		9
200	Assessment of the Efficacy of Tributylammonium Alginate Surface-Modified Polyurethane as an Antibacterial Elastomeric Wound Dressing for both Noninfected and Infected Full-Thickness Wounds. <b>2020</b> , 12, 3393-3406		15
199	Tackling microbial infections and increasing resistance involving formulations based on antimicrobial polymers. <b>2020</b> , 385, 123888		21
198	Antibacterial and non-hemolytic cationic polyurethanes with N-carboxymethyl-N,N,N-triethylammonium groups for bacteremia-control in biomedical-using materials. <b>2020</b> , 22, 100708		10
197	Specialty Tough Hydrogels and Their Biomedical Applications. <b>2020</b> , 9, e1901396		53
196	Stimulus-Responsive Polyzwitterionic Surfaces Made from Itaconic Acid: Self-Triggered Antimicrobial Activity, Protein Repellency, and Cell Compatibility. <b>2020</b> , 12, 21242-21253		13

195	Organo-montmorillonite with biogenic compounds to be applied in antifungal coatings. <b>2020</b> , 184, 1053	369	11
194	Constructing antibacterial polymer nanocapsules based on pyridine quaternary ammonium salt. <b>2020</b> , 108, 110383		18
193	Cationic polymer <b>B</b> ased antibacterial smart coatings. <b>2020</b> , 557-582		4
192	Inhibition of fungal growth by silicones modified with cationic biocides. <b>2020</b> , 22, 100716		4
191	Nanocomposite antimicrobials prevent bacterial growth through the enzyme-like activity of Bi-doped cerium dioxide (CeBiO). <b>2020</b> , 12, 21344-21358		9
190	Antimicrobial Activities of Thermoplastic Polyurethane/Clay Nanocomposites against Pathogenic Bacteria <b>2020</b> , 3, 6672-6679		4
189	Conformationally tuned antibacterial oligomers target the peptidoglycan of Gram-positive bacteria. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 580, 850-862	9.3	12
188	Antibacterial properties of main-chain cationic polymers prepared through amine-epoxy 'Click' polymerization <b>2020</b> , 10, 26752-26755		6
187	Antimicrobial s-PBC Coatings for Innovative Multifunctional Water Filters. <i>Molecules</i> , <b>2020</b> , 25,	4.8	5
186	Synthesis, Characterization, and Antimicrobial Evaluation of Random Poly(ester-Carbonate)s Bearing Pendant Primary Amine in the Main Chain. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
185	Waterborne functional paints to control biodeterioration. <b>2020</b> , 155-179		1
184	Development of anti-bacterial surfaces using a hydrophobin chimeric protein. <b>2020</b> , 164, 2293-2300		6
183	Development of Ag nanoparticles on the surface of Ti powders by chemical reduction method and investigation of their antibacterial properties. <b>2020</b> , 533, 147494		8
182	Layer-By-Layer Nanocoating of Antiviral Polysaccharides on Surfaces to Prevent Coronavirus Infections. <i>Molecules</i> , <b>2020</b> , 25,	4.8	14
181	Lactoferrin Functionalized Biomaterials: Tools for Prevention of Implant-Associated Infections. <i>Antibiotics</i> , <b>2020</b> , 9,	4.9	4
180	Facile Fabrication of Silicon(IV)Phthalocyanine-Embedded Poly(vinyl alcohol)-Based Antibacterial and Antifouling Interfaces <b>2020</b> , 3, 3751-3760		11
179	Metal Oxide <b>B</b> ased Nanocomposites as Antimicrobial and Biomedical Agents. <b>2020</b> , 287-323		6
178	Positively Charged Polymers as Promising Devices against Multidrug Resistant Gram-Negative Bacteria: A Review. <i>Polymers</i> , <b>2020</b> , 12,	4.5	31

177 Antibiotic Polymer for Biomedical Applications. **2020**, 33-49

176	Charged group-modified poly(vinyl alcohol) hydrogels: Preparation and antibacterial property. <i>Reactive and Functional Polymers</i> , <b>2020</b> , 154, 104635	4.6	3
175	Bactericidal nanopatterns generated by block copolymer self-assembly. <b>2020</b> , 112, 174-181		6
174	Selective Inhibition of Biofilm Growth via a Hydroxylated Azobenzene Coating. <b>2020</b> , 7, 1902149		1
173	UV-Curable Surface-Attached Antimicrobial Polymeric Onium Coatings: Designing Effective, Solvent-Resistant Coatings for Plastic Surfaces <b>2020</b> , 3, 4302-4315		8
172	A Review on Surface-Functionalized Cellulosic Nanostructures as Biocompatible Antibacterial Materials. <b>2020</b> , 12, 73		73
171	An overview of controlled-biocide-release coating based on polymer resin for marine antifouling applications. <i>Journal of Polymer Research</i> , <b>2020</b> , 27, 1	2.7	19
170	Film Properties and Antimicrobial Efficacy of Quaternized PDMAEMA Brushes: Short vs Long Alkyl Chain Length. <b>2020</b> , 36, 3482-3493		19
169	Antibacterial efficiency assessment of polymer-nanoparticle composites using a high-throughput microfluidic platform. <b>2020</b> , 111, 110754		5
168	Active delivery of antimicrobial nanoparticles into microbial cells through surface functionalization strategies. <b>2020</b> , 99, 217-228		25
167	Constructing a Contact-Active Antimicrobial Surface Based on Quarternized Amphiphilic Carbonaceous Particles against Biofilms <b>2020</b> , 3, 5048-5055		2
166	Preparation, Antimicrobial Properties, and Cytotoxicity of Acrylic Resins Containing Poly(diallyldimethylammonium chloride). <b>2021</b> , 34, 635-641		3
165	Polymers in medicine. <b>2020</b> , 281-323		
164	Antibacterial biohybrid nanofibers for wound dressings. <b>2020</b> , 107, 25-49		203
163	Mechanism of Action of Surface Immobilized Antimicrobial Peptides Against. <b>2019</b> , 10, 3053		32
162	Simple amphiphilic hydrazido acids: Rational design, synthesis, and in vitro bioactivity profile of a novel class of potential antimicrobial compounds. <b>2020</b> , 189, 112072		2
161	Polyzwitterions: From Surface Properties and Bioactivity Profiles to Biomedical Applications. <b>2020</b> , 2, 129-151		27
160	Engineering and Application Perspectives on Designing an Antimicrobial Surface. <b>2020</b> , 12, 21330-2134	11	42

## (2021-2020)

159	Single-step fabrication of catechol-Epoly-L-lysine antimicrobial paint that prevents superbug infection and promotes osteoconductivity of titanium implants. <b>2020</b> , 396, 125240		22
158	Stable N-halamine on polydopamine coating for high antimicrobial efficiency. <i>European Polymer Journal</i> , <b>2020</b> , 130, 109654	5.2	14
157	Gene reconstruction spandex with intrinsic antimicrobial activity. <b>2021</b> , 404, 125152		4
156	Synthetic Polypeptide Polymers as Simplified Analogues of Antimicrobial Peptides.  Biomacromolecules, <b>2021</b> , 22, 57-75	6.9	28
155	A functional coating to enhance antibacterial and bioactivity properties of titanium implants and its performance. <b>2021</b> , 35, 655-669		3
154	Antibacterial activity of therapeutic agent-immobilized nanostructured TiCaPCON films against antibiotic-sensitive and antibiotic-resistant Escherichia coli strains. <b>2021</b> , 405, 126538		2
153	Robust and Self-healable Antibiofilm Multilayer Coatings. <b>2021</b> , 39, 425-440		
152	Access to thermally robust and abrasion resistant antimicrobial plastics: synthesis of UV-curable phosphonium small molecule coatings and extrudable additives <b>2021</b> , 11, 5548-5555		2
151	Synthesis and antibacterial activity of polymer-antibiotic conjugates incorporated into a resin-based dental adhesive. <b>2021</b> , 9, 2043-2052		3
150	Synthesis of antimicrobial siliceous materials by adding sunflowers ashes with silver and copper particles. <b>2021</b> , 4, 100165		2
149	Anti-inflammation biomaterial platforms for chronic wound healing. 2021, 9, 4388-4409		14
148	Nanoparticle-impregnated biopolymers as novel antimicrobial nanofilms. <b>2021</b> , 269-309		4
147	Dendrimers against fungi - A state of the art review. <b>2021</b> , 330, 599-617		9
146	Precision Design of Antimicrobial Surfaces <b>2021</b> , 3, 640929		1
145	Natural and synthetic polymeric antimicrobials with quaternary ammonium moieties: a review. <b>2021</b> , 19, 3009-3022		6
144	Cationic Homopolymers Inhibit Spore and Vegetative Cell Growth of. <b>2021</b> , 7, 1236-1247		2
143	Synthesis, Enzymatic Degradation, and Polymer-Miscibility Evaluation of Nonionic Antimicrobial Hyperbranched Polyesters with Indole or Isatin Functionalities. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2256-2271	5.9	0
142	Antimicrobial ceramic hybrid films for keep-freshness packaging with fluorinated illite particles. <b>2021</b> , 58, 430-436		O

141	Dual-functional antibiofilm polymer composite for biodegradable medical devices. <b>2021</b> , 123, 111985		3
140	New Light in Polymer Science: Photoinduced Reversible Addition-Fragmentation Chain Transfer Polymerization (PET-RAFT) as Innovative Strategy for the Synthesis of Advanced Materials. <i>Polymers</i> , <b>2021</b> , 13,	4.5	9
139	Processing of quaternized polysulfones solutions as tool in design of electrospun nanofibers: Microstructural characteristics and antimicrobial activity. <b>2021</b> , 330, 115664		4
138	Antibacterial ferroelectric materials: Advancements and future directions. <b>2021</b> , 97, 95-110		7
137	Stimulus-Responsive Polyelectrolyte Surfaces: Switching Surface Properties from Polycationic/Antimicrobial to Polyzwitterionic/Protein-Repellent. <b>2021</b> , 42, e2100051		3
136	Synthesis and antimicrobial study of copolymer resins derived from p-hydroxybenzoic acid, semicarbazide and formaldehyde. <b>2021</b> , 1913, 012063		5
135	Antimicrobial Surfaces for Applications on Confined Inhabited Space Stations. <b>2021</b> , 8, 2100118		2
134	Broad-Spectrum Bactericidal Activity of a Synthetic Random Copolymer Based on 2-Methoxy-6-(4-Vinylbenzyloxy)-Benzylammonium Hydrochloride. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
133	Nanoscience-Led Antimicrobial Surface Engineering to Prevent Infections. <b>2021</b> , 4, 4269-4283		5
132	Core-shell chitosan microsphere with antimicrobial and vascularized functions for promoting skin wound healing. <b>2021</b> , 204, 109683		23
131	Antimicrobial Properties and Applications of Pyrrolidone and Caprolactam-Based Materials. 2057-2091		
130	Structure-activity relationship of antibacterial bio-based epoxy polymers made from phenolic branched fatty acids. <b>2021</b> , 155, 106228		3
129	Roles and performance enhancement of feed spacer in spiral wound membrane modules for water treatment: A 20-year review on research evolvement. <b>2021</b> , 198, 117146		15
128	Developing phosphonic acid bearing polyelectrolytes for their biocidal activity on surfaces, thermal properties, nanofiber and nano particle formation. <b>2021</b> , 27, 102422		
127	A New Antifungal-Loaded Sol-Gel Can Prevent Prosthetic Joint Infection. Antibiotics, 2021, 10,	4.9	2
126	How Do Polymer Coatings Affect the Growth and Bacterial Population of a Biofilm Formed by Total Human Salivary Bacteria?-A Study by 16S-RNA Sequencing. <b>2021</b> , 9,		O
125	Prevention and Treatment of Fungal Skin Infections Using Cationic Polymeric Films. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	
124	Surface Characterization and Physiochemical Evaluation of P(3HB4HB)-Collagen Peptide Scaffolds with Silver Sulfadiazine as Antimicrobial Agent for Potential Infection-Resistance Biomaterial. <i>Polymers</i> , <b>2021</b> , 13,	4.5	

123	Preparation of bactericidal PDMS surfaces by benzophenone photo-initiated grafting of polynorbornenes functionalized with quaternary phosphonium or pyridinium groups. <i>European Polymer Journal</i> , <b>2021</b> , 157, 110669	0
122	One-step vapor deposition of fluorinated polycationic coating to fabricate antifouling and anti-infective textile against drug-resistant bacteria and viruses. <b>2021</b> , 418, 129368	15
121	Advancements in release-active antimicrobial biomaterials: A journey from release to relief. 2021, e1745	3
120	Macromolecular Nanotherapeutics and Antibiotic Adjuvants to Tackle Bacterial and Fungal Infections. <b>2021</b> , 21, e2100182	1
119	Biodegradability of Novel Polylactide and Polycaprolactone Materials with Bacteriostatic Properties Due to Embedded Birch Tar in Different Environments. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	1
118	Sulfonated Poly(Styrene-Isobutylene-Styrene) Membranes with Counter-Ion Substitution for the Inactivation of Pathogens in Water. <b>2021</b> , 147, 04021027	
117	Multifunctional starch-based barrier materials. <b>2021</b> , 20, 511-523	
116	A Synthetic Overview of Preparation Protocols of Nonmetallic, Contact-Active Antimicrobial Quaternary Surfaces on Polymer Substrates. <b>2021</b> , 42, e2100437	1
115	Carbon nanomaterials-based polymer-matrix nanocomposites for antimicrobial applications: A review. <b>2021</b> , 182, 463-483	10
114	Methacrylation of epigallocatechin-gallate for covalent attachment with a dental polymer. <b>2021</b> , 37, 1751-1760	O
113	Nanogels: A novel approach in antimicrobial delivery systems and antimicrobial coatings. <b>2021</b> , 6, 3634-3657	18
112	In vitro and in vivo evaluation of implantable bacterial-killing coatings based on host defense peptides and their synthetic mimics. <b>2021</b> , 91, 90-104	2
111	Polymeric nanomaterials as broad-spectrum antimicrobial compounds. 2021, 225-266	
110	Antimicrobial polymer nanocomposite films and coatings. <b>2021</b> , 379-397	
109	Polymeric Antimicrobials with Quaternary Ammonium Moieties. <b>2021</b> , 123-170	2
108	A Graftable Quaternary Ammonium Biocidal Polymer Reduces Biofilm Formation and Ensures Biocompatibility of Medical Devices. <b>2021</b> , 8, 2001516	6
107	Manufacture of Chemically Modified Antibacterial Surfaces. 2015, 61-88	1
106	Designing Antibacterial Surfaces for Biomedical Implants. <b>2015</b> , 89-111	4

105	Anti-fouling Medical Coatings. <b>2017</b> , 189-214	4
104	Recent Advances in Development of Antimicrobial Textiles. <b>2020</b> , 129-168	3
103	Antimicrobial Polymers. <b>2021</b> , 1-42	4
102	CHAPTER 5:Antibacterial Polymers. <b>2016</b> , 90-107	1
101	Chapter 15:Antimicrobial Polymers and Surfaces [Natural Mimics or Surpassing Nature?. 2016, 490-522	2
100	Chapter 1:Antimicrobial MaterialsAn Overview. <b>2019</b> , 1-37	9
99	Chapter 17:Overview of Antimicrobial Resistance and Nanoparticulate Drug Delivery Approach to Combat Antimicrobial Resistance. <b>2019</b> , 481-516	1
98	Novel glycopolymer sensitizes Burkholderia cepacia complex isolates from cystic fibrosis patients to tobramycin and meropenem. <b>2017</b> , 12, e0179776	13
97	Quaternary Alkylammonium Salts as Cleaning and Disinfectant Agents. <b>2018</b> , 55, 432-438	7
96	Biocompatibility and Antibacterial Effects of 6-Deoxy-6-Aminoethyleneamino Cellulose. <b>2018</b> , 06, 51-62	1
95	Antimicrobial Properties of Glass Surface Functionalized with Silver-doped Terminal-alkynyl Monolayers. <b>2014</b> , 35, 39-44	2
94	Food Contact Surfaces: Challenges, Legislation and Solutions. 1-24	O
93	Antimicrobial coatings for environmental surfaces in hospitals: a potential new pillar for prevention strategies in hygiene. <b>2021</b> , 1-35	2
92	Microbial susceptibility of various polymers and evaluation of thermoplastic elastomers with antimicrobial additives.	1
91	Smart and pH-sensitive rGO/Arabinoxylan/chitosan composite for wound dressing: In-vitro drug delivery, antibacterial activity, and biological activities. <b>2021</b> , 192, 820-831	12
90	Encyclopedia of Membranes. <b>2014</b> , 1-2	
89	Layer-by-Layer Coatings as Infection-Resistant Biomaterials. <b>2015</b> , 81-94	
88	Resinas polim <b>l</b> icas reticuladas com a <b>B</b> biocida: atual estado da arte. <b>2015</b> , 25, 414-423	1

87	Hyperbranched Polyamidoamine Surfactants: Synthesis, Characterization and Evaluation as Biocides. <b>2018</b> , 55, 455-466		1
86	METHODS OF PREVENTING BIOFILMS FORMATION ON THE SURFACES OF POLYMER MATERIALS. <b>2018</b> , 13, 5-27		1
85	Chapter 2:Introduction to Microbes and Infection in the Modern World. 2019, 38-67		
84	Antibacterial Polymeric and Peptide Gels/Hydrogels to Prevent Biomaterial-Related Infections. <b>2020</b> , 543-581		O
83	Potential Environmental Effects of Engineered Antimicrobial Surfaces. 2020, 135-163		
82	Multiscale simulations of polyzwitterions in aqueous bulk solutions and brush array configurations. <b>2021</b> ,		4
81	Advanced Antimicrobial Materials and Applications: Maleic Anhydride Antimicrobial Polymers. <b>2021</b> , 171-192		
80	Mechanical, antibacterial, biocompatible and microleakage evaluation of glass ionomer cement modified by nanohydroxyapatite/polyhexamethylene biguanide. <b>2021</b> ,		1
79	Synthetic macromolecules with biological activity. <b>2022</b> , 305-335		
78	Synthesis and properties of vinyl benzyl alcohol copolymers with styrene. <b>2021</b> , 16, 399-413		
77	Investigation of the Harmlessness of a High-Molecular Water-Soluble Polymer in Laboratory Animals. <b>2022</b> , 570-579		
76	Design of Aromatic Ring-Based Polyphosphonium Salts Synthesized via ROMP and the Investigation into Their Antibacterial and Hemolytic Activities.		O
75	Transparent Polymeric Formulations Effective against SARS-CoV-2 Infection. <b>2021</b> , 13, 54648-54655		2
74	A Guideline for the Synthesis of Amino-Acid-Functionalized Monomers and Their Polymerizations. <b>2021</b> , e2100615		3
73	Controlled copolymerization of ENCAs and ENNTAs for preparing peptide/peptoid hybrid polymers with adjustable proteolysis. <i>Polymer Chemistry</i> ,	4.9	O
72	Quaternary imidazolium-functionalized reactive silica nanoparticles-containing thiol-ene photocured antibacterial hybrid coatings. <i>Reactive and Functional Polymers</i> , <b>2022</b> , 170, 105149	4.6	
71	eDNA Inactivation and Biofilm Inhibition by the PolymericBiocide Polyhexamethylene Guanidine Hydrochloride (PHMG-Cl) <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	2
70	Secondary Amine Pendant Peptide Polymers Displaying Potent Antibacterial Activity and Promising Therapeutic Potential in Treating MRSA-Induced Wound Infections and Keratitis <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	10

69	Synthesis and Characterization of Arabinoxylan Psyllium Mucilage-2-methacryloyloxyethyl Trimethylammonium Chloride Copolymeric Hydrogel by Gamma Radiation for Use in Drug Delivery Applications. <i>Polymer Science - Series B</i> , 1	0.8	
68	A Transient Initiator for Polypeptoids Postpolymerization <code>HFunctionalization</code> via Activation of a Thioester Group. <i>Macromolecular Chemistry and Physics</i> , <b>2022</b> , 223, 2100331	2.6	
67	Developing Multifunctional/Smart Civil Engineering Materials to Fight Viruses. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 678-690	8.3	
66	The antibacterial activity and mechanism of polyurethane coating with quaternary ammonium salt. <i>Journal of Polymer Research</i> , <b>2022</b> , 29, 1	2.7	2
65	Optimization and Antibacterial Response of N-Halamine Coatings Based on Polydopamine. <i>Colloids and Interfaces</i> , <b>2022</b> , 6, 9	3	1
64	Combining microscopy assays of bacteria-surface interactions to better evaluate antimicrobial polymer coatings <i>Applied and Environmental Microbiology</i> , <b>2022</b> , aem0224121	4.8	O
63	Antimicrobial Properties of the Triclosan-Loaded Polymeric Composite Based on Unsaturated Polyester Resin: Synthesis, Characterization and Activity <i>Polymers</i> , <b>2022</b> , 14,	4.5	1
62	Polymer-solvent interaction and conformational changes at a molecular level: Implication to solvent-assisted deformation and aggregation at the polymer surface <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 616, 221-233	9.3	O
61	Synthesis of alginate-based nanocomposites: a novel approach to antibacterial films. <i>Chemical Papers</i> , 1	1.9	
60	Nonionic nontoxic antimicrobial polymers: indole-grafted poly(vinyl alcohol) with pendant alkyl or ether groups. <i>Polymer Chemistry</i> ,	4.9	1
59	Comparable Studies on Nanoscale Antibacterial Polymer Coatings Based on Different Coating Procedures <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	O
58	Polymeric Biomaterials for Prevention and Therapeutic Intervention of Microbial Infections <i>Biomacromolecules</i> , <b>2022</b> ,	6.9	3
57	Recent Advances on Bacterial Cellulose-Based Wound Management: Promises and Challenges. <i>International Journal of Polymer Science</i> , <b>2022</b> , 2022, 1-24	2.4	2
56	How Effective Are Antimicrobial Agents on Preventing the Adhesion of to Denture Base Acrylic Resin Materials? A Systematic Review <i>Polymers</i> , <b>2022</b> , 14,	4.5	2
55	Multilayered Curcumin-Loaded Hydrogel Microcarriers with Antimicrobial Function <i>Molecules</i> , <b>2022</b> , 27,	4.8	3
54	Hydrophilic Modified Siloxane Coatings. <i>Polymer Science - Series B</i> , 1	0.8	
53	High-throughput synthesis of CeO nanoparticles for transparent nanocomposites repelling Pseudomonas aeruginosa biofilms <i>Scientific Reports</i> , <b>2022</b> , 12, 3935	4.9	2
52	Alternatingly Amphiphilic Antimicrobial Oligoguanidines: Structure <b>P</b> roperty Relationship and Usage as the Coating Material with Unprecedented Hemocompatibility. <i>Chemistry of Materials</i> ,	9.6	О

51	Antimicrobial Polymeric Composites for High-touch Surfaces in Healthcare Applications <i>Current Opinion in Biomedical Engineering</i> , <b>2022</b> , 100395	4.4	1
50	Data_Sheet_1.PDF. <b>2020</b> ,		
49	Polyimidazolium protects against an invasive clinical isolate of Salmonella Typhimurium.		
48	On the molecular mechanism of nonspecific antimicrobial action of protonated diallylammonium polymers on mycobacterial cells. <i>European Polymer Journal</i> , <b>2022</b> , 171, 111214	5.2	О
47	Peptide-coating combating antimicrobial contaminations: a review of covalent immobilization strategies for industrial applications. <i>Journal of Materials Science</i> ,	4.3	1
46	Addressing a future pandemic: how can non-biological complex drugs prepare us for antimicrobial resistance threats?. <i>Materials Horizons</i> ,	14.4	Ο
45	Nanomaterials-Based Combinatorial Therapy as a Strategy to Combat Antibiotic Resistance. <i>Antibiotics</i> , <b>2022</b> , 11, 794	4.9	Ο
44	Thermal spray copper-based coatings against contamination of thermoplastic surfaces: A systematic review. <i>Engineering Science and Technology, an International Journal</i> , <b>2022</b> , 101194		1
43	Bacterial Cellulose as Drug Delivery System for Optimizing Release of Immune Checkpoint Blocking Antibodies. <i>Pharmaceutics</i> , <b>2022</b> , 14, 1351	6.4	1
42	Secondary amine pendent Epeptide polymers realizing antimicrobial surfaces to prevent bacterial infection of implants. <i>Applied Materials Today</i> , <b>2022</b> , 29, 101599	6.6	
41	Biguanide- and Oligo(Ethylene Glycol)-Functionalized Poly(3,4-Ethylenedioxythiophene): Electroactive, Antimicrobial, and Antifouling Surface Coatings. 10,		
40	Interaction mechanism of chitosan oligomers in pure water with cell membrane models studied by SFG vibrational spectroscopy. <b>2022</b> , 112782		
39	One-Pot Synthesis of Polyvinyl Alcohol-Piperazine Cross-Linked Polymer for Antibacterial Applications.		Ο
38	N-vinylpyrrolidone antimicrobial polymers: Current trends and emerging perspectives. <b>2022</b> , 180, 1115	90	Ο
37	Development and characterization of green polyethylene/clay/antimicrobial additive nanocomposites. <b>2022</b> , 32,		Ο
36	Polymers showing intrinsic antimicrobial activity.		8
35	Biocompatible non-leachable antimicrobial polymers with a nonionic hyperbranched backbone and phenolic terminal units.		0
34	Rapid synthesis of drug-encapsulated films by evaporation-induced self-assembly for highly-controlled drug release from biomaterial surfaces. <b>2022</b> , 10, 6453-6463		O

33	In Situ Application of Anti-Fouling Solutions on a Mosaic of the Archaeological Park of Ostia Antica. <b>2022</b> , 15, 5671	2
32	Polyimidazolium Protects against an Invasive Clinical Isolate of Salmonella Typhimurium.	1
31	Dual Dynamic Covalently Crosslinked Alginate Hydrogels with Tunable Properties and Multiple Stimuli-Responsiveness.	О
30	In situ generation of H2O2 using CaO2 as peroxide storage depot for haloperoxidase mimicry with surface-tailored Bi-doped mesoporous CeO2 nanozymes.	O
29	Implantable drug delivery systems for the treatment of osteomyelitis. 1-17	O
28	Tannic Acid-Promoted Deposition of Glucose Oxidase on Titanium Surfaces for Mitigation of Persistent Bacterial Infections. 2201506	O
27	Recent Advances in Antibacterial Composite Coatings. <b>2022</b> , 12, 1504	1
26	Synthesis and Characterization of a Coumarin Antimicrobial Polymer Fluorescent Coating. <b>2022</b> , 2022, 1-8	O
25	UV stabilizers can foster early development of biofilms on freshwater microplastics. <b>2022</b> , 315, 120444	O
24	An explorative study on the antimicrobial effects and mechanical properties of 3D printed PLA and TPU surfaces loaded with Ag and Cu against nosocomial and foodborne pathogens. <b>2023</b> , 137, 105536	1
23	Surface antimicrobial functionalization with polymers: fabrication, mechanisms and applications.	O
22	Fabrication of crosslinked piperazine polymer coating: Synthesis, characterization and its activity towards microorganisms. <b>2023</b> , 1274, 134522	O
21	Review of the untapped potentials of antimicrobial materials in the construction sector. <b>2023</b> , 133, 101065	1
20	Surface-attached Polymer Networks Made from Cationic Poly(diitaconates): Synthesis, Surface Characterization, and Bioactivity. 2200323	O
19	A Novel Cationic Polymer Surfactant for Regulation of the Rheological and Biocidal Properties of the Water-Based Drilling Muds. <b>2023</b> , 15, 330	O
18	Radical polymerisation synthesis of novel poly(propranolol) acrylate and methacrylate polymers possess antibacterial activity and metal ion grabbing ability.	O
17	Working principles of various smart coatings on microbes/virus growth. <b>2023</b> , 239-261	О
16	Antimicrobial Coatings: Reviewing Options for Healthcare Applications. <b>2023</b> , 3, 145-174	O

#### CITATION REPORT

15	Antimicrobial activity of different coatings for packaging materials containing functional extenders against selected microorganisms typical for food. <b>2023</b> , 148, 109669	0
14	Scalable Synthesis of Self-Disinfecting Polycationic Coatings for Hospital Relevant Surfaces. <b>2023</b> , 10, 2202299	O
13	Antibacterial coatings on orthopedic implants. <b>2023</b> , 19, 100586	1
12	Facile surface treatment strategy to generate dense lysozyme layer on ultra-high molecular weight polyethylene enabling inhibition of bacterial biofilm formation. <b>2023</b> , 225, 113243	O
11	Migration of surface-associated microbial communities in spaceflight habitats. 2023, 5, 100109	1
10	Biostable Fluorine-Containing Coatings on the Surface of Polymers. <b>2023</b> , 13, 424	O
9	Towards next generation polymer surfaces: Nano- and microlayers of star macromolecules and their design for applications in biology and medicine. <b>2023</b> , 139, 101657	O
8	Imidazolium Salts for Candida spp. Antibiofilm High-Density Polyethylene-Based Biomaterials. <b>2023</b> , 15, 1259	O
7	Additively Manufactured Ferroelectric Particulate Composites for Antimicrobial Applications. <b>2023</b> , 8,	O
6	Recent Development of Polyhydroxyalkanoates (PHA)-Based Materials for Antibacterial Applications: A Review. <b>2023</b> , 6, 1398-1430	1
5	Green chemistry fabrication of durable antimicrobial peptide-immobilized silk fibroin films for accelerated full-thickness wound healing. <b>2023</b> , 29, 101468	1
4	Chitosan Schiff base electrospun fabrication and molecular docking assessment for nonleaching antibacterial nanocomposite production. <b>2023</b> , 30, 3505-3522	O
3	Preparation of Antibacterial Nanosilver Solution Microcapsules and Their Impact on the Performance of Andoung Wood Surface Coating. <b>2023</b> , 15, 1722	О
2	Amphiphilic Nano-Swords for Direct Penetration and Eradication of Pathogenic Bacterial Biofilms.	O
1	Green organic-inorganic coatings for flexible polyurethane foams: Evaluation of the effects on flame retardancy, antibacterial activity, and ideal mechanical properties. <b>2023</b> , 411, 137265	О