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Antibacterial activity of silver nanoparticles: A surface science insight

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903	Disinfection of biologically treated industrial wastewater using montmorillonite/alginate/nanosilver hybrids. 2015 , 7, 273-279		12
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901	Specifically targeted imaging using functionalized nanoparticles. 2016 , 1-44		
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899	Biopolymers Regulate Silver Nanoparticle under Microwave Irradiation for Effective Antibacterial and Antibiofilm Activities. 2016 , 11, e0157612		46
898	Green synthesis of silver chloride nanoparticles using Prunus persica L. outer peel extract and investigation of antibacterial, anticandidal, antioxidant potential. 2016 , 9, 132-142		35
897	Graphene Oxide/Silver Nanohybrid as Multi-functional Material for Highly Efficient Bacterial Disinfection and Detection of Organic Dye. 2016 , 45, 5321-5333		14
896	Mechanistic Study of the Synergistic Antibacterial Activity of Combined Silver Nanoparticles and Common Antibiotics. 2016 , 50, 8840-8		144
895	Effect of silver/copper and copper oxide nanoparticle powder on growth of Gram-negative and Gram-positive bacteria and their toxicity against the normal human dermal fibroblasts. 2016 , 18, 1		10
894	Atmospheric pressure microplasma assisted growth of silver nanosheets and their inhibitory action against bacteria of clinical interest. 2016 , 3, 125019		9
893	Antimicrobial activity of tantalum oxide coatings decorated with Ag nanoparticles. 2016 , 34, 04C102		13
892	Antimicrobial silver-hydroxyapatite composite coatings through two-stage electrochemical synthesis. 2016 , 301, 13-19		55
891	Corrosion processes of triangular silver nanoparticles compared to bulk silver. 2016 , 18, 1		20
890	Evaluation of AgClNPs@SBA-15/IL nanoparticle-induced oxidative stress and DNA mutation in Escherichia coli. 2016 , 100, 7161-70		9
889	Biosynthesis of Au and Au/Ag alloy nanoparticles using Coleus aromaticus essential oil and evaluation of their catalytic, antibacterial and antiradical activities. 2016 , 221, 179-189		49
888	Analytical strategies to the determination of metal-containing nanoparticles in environmental waters. 2016 , 84, 107-120		50
887	A comparative study of the antibacterial mechanisms of silver ion and silver nanoparticles by Fourier transform infrared spectroscopy. 2016 , 85, 112-121		22

(2016-2016)

8	86	Dragon's blood-aided synthesis of Ag/Ag2O core/shell nanostructures and Ag/Ag2O decked multi-layered graphene for efficient As(III) uptake from water and antibacterial activity. 2016 , 6, 44145-44153	10
8	85	Recent advances in the synthesis and characterization of nano-antimicrobials. 2016 , 84, 131-138	48
8	84	Sonochemically-Produced Metal-Containing Polydopamine Nanoparticles and Their Antibacterial and Antibiofilm Activity. 2016 , 32, 5201-12	43
8	83	Elucidating Protein Involvement in the Stabilization of the Biogenic Silver Nanoparticles. 2016 , 11, 313	53
8	82	Temperature Dependence and Mechanism of Chloride-Induced Aggregation of Silver Nanoparticles. 2016 , 120, 23268-23275	15
8	81	Sustainable Antibiofouling Properties of Thin Film Composite Forward Osmosis Membrane with Rechargeable Silver Nanoparticles Loading. 2016 , 8, 21666-73	64
8	80	Surface-independent one-pot chelation of copper ions onto filtration membranes to provide antibacterial properties. 2016 , 52, 12245-12248	30
8;	79	Silver nanoparticles production by two soil isolated bacteria, Bacillus thuringiensis and Enterobacter cloacae, and assessment of their cytotoxicity and wound healing effect in rats. 2016 , 24, 860-869	21
8;	78	Synthesis of Self-Assembled Spermidine-Carbon Quantum Dots Effective against Multidrug-Resistant Bacteria. 2016 , 5, 2545-2554	97
8;	77	Full polysaccharide crosslinked-chitosan and silver nano composites, for use as an antibacterial membrane. 2016 , 34, 949-964	13
8;	76	Immobilization of Highly Dispersed Ag Nanoparticles on Carbon Nanotubes Using Electron-Assisted Reduction for Antibacterial Performance. 2016 , 8, 17060-7	35
8;	75	Light-activated polymethylmethacrylate nanofibers with antibacterial activity. 2016 , 64, 229-235	30
8;	74	Antibiotic-loaded, silver core-embedded mesoporous silica nanovehicles as a synergistic antibacterial agent for the treatment of drug-resistant infections. 2016 , 101, 207-16	113
8;	73	Assessing bio-available silver released from silver nanoparticles embedded in silica layers using the green algae Chlamydomonas reinhardtii as bio-sensors. 2016 , 565, 863-871	21
8;	72	Interfacial Engineering of Bimetallic Ag/Pt Nanoparticles on Reduced Graphene Oxide Matrix for Enhanced Antimicrobial Activity. 2016 , 8, 8834-40	71
8;	71	Toward the Synthesis of Sub-15 nm Ag Nanocubes with Sharp Corners and Edges: The Roles of Heterogeneous Nucleation and Surface Capping. 2016 , 138, 3161-7	73
8;	70	Antibacterial and biocompatible properties of polyurethane nanofiber composites with integrated antifouling and bactericidal components. 2016 , 127, 28-35	29
8	69	Large-area chemical vapor deposition-grown monolayer graphene-wrapped silver nanowires for broad-spectrum and robust antimicrobial coating. 2016 , 9, 963-973	44

868	Essential oil mediated synthesis of silver nanocrystals for environmental, anti-microbial and antioxidant applications. 2016 , 61, 429-36	38
867	Oxidative dissolution of silver nanoparticles: A new theoretical approach. 2016 , 469, 355-364	34
866	Silver nanoparticles in aquatic environments: Physiochemical behavior and antimicrobial mechanisms. 2016 , 88, 403-427	201
865	Development and Antibacterial Performance of Novel Polylactic Acid-Graphene Oxide-Silver Nanoparticle Hybrid Nanocomposite Mats Prepared By Electrospinning. 2017 , 3, 471-486	98
864	Temperature-controlled cross-linking of silver nanoparticles with diels-alder reaction and its application on antibacterial property. 2017 , 403, 435-440	8
863	Environmental Release of and Exposure to Iron Oxide and Silver Nanoparticles. 2017,	2
862	Solution-processed AuAg coreShell nanoparticle-decorated yarns for human motion monitoring. 2017 , 7, 10539-10544	8
861	Shell thickness-dependent antibacterial activity and biocompatibility of gold@silver coreEhell nanoparticles. 2017 , 7, 11355-11361	30
860	Towards multifunctional cellulosic fabric: UV photo-reduction and in-situ synthesis of silver nanoparticles into cellulose fabrics. 2017 , 98, 877-886	68
859	Synthesis and antibacterial activity of a silver nanoparticle/silver titanium phosphateBanocomposite nanobelt thin film formed on a titanium plate. 2017 , 628, 184-189	6
858	Poly(vinyl alcohol) as a water protecting agent for silver nanoparticles: the role of polymer size and structure. 2017 , 19, 8742-8756	69
857	Silver-polymer functional-nanocomposite: A single step synthesis approach with in-situ optical study. 2017 , 412, 482-488	4
856	Preparations and Applications of Polysaccharide Based Green Synthesized Metal Nanoparticles: A State-of-the-Art. 2017 , 28, 1803-1813	27
855	Ag-BaMoO: Er/Yb photocatalyst for antibacterial application. 2017 , 78, 1164-1171	34
854	Characterization and Stability of Silver Nanoparticles in Starch Solution Obtained by Femtosecond Laser Ablation and Salt Reduction. 2017 , 121, 10501-10513	10
853	Nanochemistry in Drug Design. 2017 , 311-334	1
852	Simple nanosilver composite for photocatalytic inactivation of Salmonella typhimurium. 2017 , 12, 281-284	
851	A Review of Silver Nanoparticles: Research Trends, Global Consumption, Synthesis, Properties, and Future Challenges. 2017 , 64, 732-756	179

(2017-2017)

850	A purely green synthesis of silver nanoparticles using Carica papaya, Manihot esculenta, and Morinda citrifolia: synthesis and antibacterial evaluations. 2017 , 40, 1349-1361	26
849	Surface modification using crosslinking of diamine and a bis(diarylcarbene): synthesis, characterization, and antibacterial activity via binding hydrogen peroxide. 2017 , 7, 29645-29655	11
848	Photochemical generation of antimicrobial Ag-nanoparticles in intraocular lenses. 2017,	
847	Antibacterial and antifungal properties of dendronized silver and gold nanoparticles with cationic carbosilane dendrons. 2017 , 528, 55-61	33
846	Synthesis of magnetic nanoparticles and their dispersions with special reference to applications in biomedicine and biotechnology. 2017 , 79, 901-916	62
845	Teratogenic hazard of BPEI-coated silver nanoparticles to Xenopus laevis. 2017 , 11, 405-418	13
844	Direct synthesis of antimicrobial coatings based on tailored bi-elemental nanoparticles. 2017, 5, 036105	19
843	Fermented cereal beverages: from probiotic, prebiotic and synbiotic towards Nanoscience designed healthy drinks. 2017 , 65, 114-124	52
842	Preparing and Testing a Magnetic Antimicrobial Silver Nanocomposite for Water Disinfection To Gain Experience at the Nanochemistry Microbiology Interface. 2017 , 94, 488-493	14
841	Directed adenine functionalization for creating complex architectures for material and biological applications. 2017 , 53, 4748-4758	27
840	Hybrid ChitosanBilver Nanoparticles Enzymatically Embedded on Cork Filter Material for Water Disinfection. 2017 , 56, 3599-3606	15
839	Impact of labile metal nanoparticles on cellular homeostasis. Current developments in imaging, synthesis and applications. 2017 , 1861, 1566-1577	16
838	Gas-phase self-assembly of uniform silica nanostructures decorated and doped with silver nanoparticles. 2017 , 28, 035602	5
837	Green synthesis of silver nanoparticles using aqueous extract of saffron (Crocus sativus L.) wastages and its antibacterial activity against six bacteria. 2017 , 7, 227-233	165
836	Multiparametric Assessment of Gold Nanoparticle Cytotoxicity in Cancerous and Healthy Cells: The Role of Size, Shape, and Surface Chemistry. 2017 , 28, 449-460	68
835	Nacre-mimic Reinforced Ag@reduced Graphene Oxide-Sodium Alginate Composite Film for Wound Healing. 2017 , 7, 13851	17
834	Study of structural phase transitions in quinary TiNi(MoFeAg)-based alloys. 2017, 4, 105702	9
833	Improved Metal Circular Economy-Selective Recovery of Minor Ag Concentrations from Zn Process Solutions. 2017 , 5, 10996-11004	17

832	Core-Shell Silver Nanoparticles in Endodontic Disinfection Solutions Enable Long-Term Antimicrobial Effect on Oral Biofilms. 2017 , 9, 34762-34772	27
831	Inhibiting P. fluorescens biofilms with fluoropolymer-embedded silver nanoparticles: an in-situ spectroscopic study. 2017 , 7, 11870	16
830	Antimicrobial Properties and Therapeutic Applications of Silver Nanoparticles and Nanocomposites. 2017 , 223-259	5
829	Bactericidal activity of Cu-, Zn-, and Ag-containing zeolites toward Escherichia coli isolates. 2017 , 24, 20273-20281	39
828	Preparation and Application of the Composite from Chitosan. 2017, 371-433	O
827	Silver nanoparticles in dentistry. 2017 , 33, 1110-1126	127
826	Synthesis of silver nanoparticles using Matricaria recutita (Babunah) plant extract and its study as mercury ions sensor. 2017 , 16, 62-67	37
825	Efficacy of silver nanoparticles mediated by Jania rubens and Sargassum dentifolium macroalgae; Characterization and biomedical applications. 2017 , 4, 249-255	15
824	Drug/ion co-delivery multi-functional nanocarrier to regenerate infected tissue defect. 2017 , 142, 62-76	48
823	Nanostructured Functional Materials: Silver Nanoparticles in Polymer for the Generation of Antimicrobial Characteristics. 2017 , 271-292	3
822	Correlation of edge truncation with antibacterial activity of plate-like anisotropic silver nanoparticles. 2017 , 24, 20429-20437	5
821	Preparation of silver-coated silk fabrics with antibacterial activity using silver carbamate and hydrogen reduction. 2017 , 25, 856-863	7
820	Bactericidal potential of silver nanoparticles synthesized using cell-free extract of Comamonas acidovorans: in vitro and in silico approaches. 2017 , 7, 92	26
819	Ultralong Hydroxyapatite Nanowires-Based Paper Co-Loaded with Silver Nanoparticles and Antibiotic for Long-Term Antibacterial Benefit. 2017 , 9, 22212-2222	49
818	Polydopamine coatings embedded with silver nanoparticles on nanostructured titania for long-lasting antibacterial effect. 2017 , 320, 608-613	33
817	Biointerfacing and Applications of Cell Membrane-Coated Nanoparticles. 2017 , 28, 23-32	174
816	Mycoendophytes as efficient synthesizers of bionanoparticles: nanoantimicrobials, mechanism, and cytotoxicity. 2017 , 37, 765-778	19
815	Nanosized Building Blocks for Customizing Novel Antibiofilm Approaches. 2017 , 96, 128-136	15

814	Functional Silver-Silicone-Nanofilament-Composite Material for Water Disinfection. 2017 , 13, 1601072	10
813	An experiment-based model quantifying antimicrobial activity of silver nanoparticles on Escherichia coli. 2017 , 7, 56173-56182	28
812	In situ synthesis of silver nanoparticles on the surface of PDMS with high antibacterial activity and biosafety toward an implantable medical device. 2017 , 4, 33	24
811	Magnetically Recoverable and Reusable Antimicrobial Nanocomposite Based on Activated Carbon, Magnetite Nanoparticles, and Silver Nanoparticles for Water Disinfection. 2017 , 2, 10	13
810	Nanostructured coatings for biomaterials. 2017 , 191-210	1
809	Silver Nanoparticles: Technological Advances, Societal Impacts, and Metrological Challenges. 2017 , 5, 6	156
808	Functionalisation of Colloidal Transition Metal Sulphides Nanocrystals: A Fascinating and Challenging Playground for the Chemist. 2017 , 7, 110	17
807	Antibacterial Activity and Synergistic Antibacterial Potential of Biosynthesized Silver Nanoparticles against Foodborne Pathogenic Bacteria along with its Anticandidal and Antioxidant Effects. 2017 , 8, 167	171
806	Synthesis, Characterization, and Evaluation of Antimicrobial Activities of Chitosan and Carboxymethyl Chitosan Schiff-Base/Silver Nanoparticles. 2017 , 2017, 1-11	32
805	Early Stages of Antibacterial Damage of Metallic Nanoparticles by TEM and STEM-HAADF. 2017 , 14, 54-61	9
805	Early Stages of Antibacterial Damage of Metallic Nanoparticles by TEM and STEM-HAADF. 2017 , 14, 54-61 Silver-based nanostructures for cancer therapy. 2017 , 405-428	9
804	Silver-based nanostructures for cancer therapy. 2017 , 405-428	
804	Silver-based nanostructures for cancer therapy. 2017, 405-428 Antimicrobial Activity of Biosynthesized Silver Nanoparticles against E. coli and B. subtilis. 2017, 09, ANTIBACTERIAL ACTIVITY OF SYNTHESIZED SILVER NANOPARTICLES BY SIMAROUBAGLAUCA	0
804 803 802	Silver-based nanostructures for cancer therapy. 2017, 405-428 Antimicrobial Activity of Biosynthesized Silver Nanoparticles against E. coli and B. subtilis. 2017, 09, ANTIBACTERIAL ACTIVITY OF SYNTHESIZED SILVER NANOPARTICLES BY SIMAROUBAGLAUCA AGAINST PATHOGENIC BACTERIA. 2017, 9, 19 Structural characterization, material properties and sensor application study of in situ polymerized	3
804 803 802	Silver-based nanostructures for cancer therapy. 2017, 405-428 Antimicrobial Activity of Biosynthesized Silver Nanoparticles against E. coli and B. subtilis. 2017, 09, ANTIBACTERIAL ACTIVITY OF SYNTHESIZED SILVER NANOPARTICLES BY SIMAROUBAGLAUCA AGAINST PATHOGENIC BACTERIA. 2017, 9, 19 Structural characterization, material properties and sensor application study of in situ polymerized polypyrrole/silver doped titanium dioxide nanocomposites. 2018, 211, 343-354 Predictive modelling of the dielectric response of plasmonic substrates: application to the	o 3 29
804 803 802 801	Silver-based nanostructures for cancer therapy. 2017, 405-428 Antimicrobial Activity of Biosynthesized Silver Nanoparticles against E. coli and B. subtilis. 2017, 09, ANTIBACTERIAL ACTIVITY OF SYNTHESIZED SILVER NANOPARTICLES BY SIMAROUBAGLAUCA AGAINST PATHOGENIC BACTERIA. 2017, 9, 19 Structural characterization, material properties and sensor application study of in situ polymerized polypyrrole/silver doped titanium dioxide nanocomposites. 2018, 211, 343-354 Predictive modelling of the dielectric response of plasmonic substrates: application to the interpretation of ellipsometric spectra. 2018, 5, 035027	o 3 29

796	Direct Monitoring of Molecular Events at the Surface: One-Step Access to Flexibly Stable Colloidal Ag Nanoparticles. 2018 , 34, 5495-5504	4
795	Application of the kinetic and isotherm models for better understanding of the behaviors of silver nanoparticles adsorption onto different adsorbents. 2018 , 218, 59-70	77
794	Surface Ligand Chemistry of Gold Nanoclusters Determines Their Antimicrobial Ability. 2018 , 30, 2800-2808	77
793	Metal Nanoparticles for Diagnosis and Therapy of Bacterial Infection. 2018 , 7, e1701392	92
792	Recent advances on silver nanoparticle and biopolymer-based biomaterials for wound healing applications. 2018 , 115, 165-175	148
791	S- and N-doped carbon quantum dots: Surface chemistry dependent antibacterial activity. 2018 , 135, 104-111	152
790	"Less Blue, More Clean": CuO nano-cubic functionalized hydrogel for the energy transformation of light-emitting screens 2018 , 8, 5468-5472	2
789	Reactivity Toward Ag: A General Strategy to Generate a New Emissive Center from NIR-Emitting Gold Nanoparticles. 2018 , 9, 557-562	9
788	Green synthesized silver nanoparticles demonstrating enhanced in vitro and in vivo antibiofilm activity against Candida spp. 2018 , 58, 343-357	27
787	Synthesis and characterization of cloisite-30B clay dispersed poly (acryl amide/sodium alginate)/AgNp hydrogel composites for the study of BSA protein drug delivery and antibacterial activity. 2018 , 5, 025403	2
786	Easy-to-perform and cost-effective fabrication of continuous-flow reactors and their application for nanomaterials synthesis. 2018 , 47, 1-7	14
7 ⁸ 5	Fungal silver nanoparticles: synthesis, application and challenges. 2018 , 38, 817-835	124
784	The antibacterial activity of polyoxometalates: structures, antibiotic effects and future perspectives. 2018 , 54, 1153-1169	196
783	Nanoparticles considered as mixtures for toxicological research. 2018 , 36, 1-20	9
782	Enhanced antibacterial activity of silver-decorated sandwich-like mesoporous silica/reduced graphene oxide nanosheets through photothermal effect. 2018 , 29, 105704	25
781	Self-assembly of rhodamine 6G on silver nanoparticles. 2018 , 692, 75-80	9
78o	Recent advances in nanomedicine for sepsis treatment. 2018 , 9, 435-450	14
779	Do physico-chemical properties of silver nanoparticles decide their interaction with biological media and bactericidal action? A review. 2018 , 90, 739-749	93

(2018-2018)

778	Toughness. 2018 , 28, 1800739	73
777	Can disc diffusion susceptibility tests assess the antimicrobial activity of engineered nanoparticles?. 2018 , 20, 62	26
776	A Mussel-Inspired Facile Method to Prepare Multilayer-AgNP-Loaded Contact Lens for Early Treatment of Bacterial and Fungal Keratitis. 2018 , 4, 1568-1579	22
775	Ag-Hybridized plasmonic Au-triangular nanoplates: highly sensitive photoacoustic/Raman evaluation and improved antibacterial/photothermal combination therapy. 2018 , 6, 2813-2820	31
774	Cooperative Catechol-Functionalized Polypept(o)ide Brushes and Ag Nanoparticles for Combination of Protein Resistance and Antimicrobial Activity on Metal Oxide Surfaces. 2018 , 19, 1602-1613	29
773	Near-Infrared-Light-Activatable Nanomaterial-Mediated Phototheranostic Nanomedicines: An Emerging Paradigm for Cancer Treatment. 2018 , 30, e1706320	287
77 ²	Extracellular biosynthesis of silver nanoparticles using Streptomyces griseoplanus SAI-25 and its antifungal activity against Macrophomina phaseolina, the charcoal rot pathogen of sorghum. 2018 , 14, 166-171	53
771	Simple green production of silver nanoparticles facilitated by bacterial genomic DNA and their antibacterial activity. 2018 , 46, 619-625	9
770	Antimicrobial polymeric nanoparticles. 2018 , 76, 40-64	147
769	Biomolecules incorporated metallic nanoparticles synthesis and their biomedical applications. 2018 , 212, 45-50	59
768	Chemical transformation of silver nanoparticles in aquatic environments: Mechanism, morphology and toxicity. 2018 , 191, 324-334	125
767	Synthesis of Metal Nanoparticles in Metal-Phenolic Networks: Catalytic and Antimicrobial Applications of Coated Textiles. 2018 , 7, 1700934	42
766	Use of electrothermal atomic absorption spectrometry for size profiling of gold and silver nanoparticles. 2018 , 1000, 75-84	12
765	Silver nanoparticles synthesized with Rumex hymenosepalus extracts: effective broad-spectrum microbicidal agents and cytotoxicity study. 2018 , 46, 1194-1206	4
764	Characteristics and Applications of Silver Nanoparticles. 2018, 227-273	7
763	Antimicrobial silver nanomaterials. 2018 , 357, 1-17	347
762	Promising Antibacterial Effects of Silver Nanoparticle-Loaded Tea Tree Oil Nanoemulsion: a Synergistic Combination Against Resistance Threat. 2018 , 19, 1133-1140	12
761	Development of a novel functional core-shell-shell nanoparticles: From design to anti-bacterial applications. 2018 , 513, 726-735	12

760	A facile method to prepare size-tunable silver nanoparticles and its antibacterial mechanism. 2018 , 29, 407-415	78
759	Optical properties of silver, silver sulfide and silver selenide nanoparticles and antibacterial applications. 2018 , 99, 385-392	44
758	Synthesis of antimicrobial AlOOH-Ag composite nanostructures by water oxidation of bimetallic Al-Ag nanoparticles 2018 , 8, 36239-36244	8
757	New insight into the effect of mass transfer on the synthesis of silver and gold nanoparticles. 2018 , 20, 7082-7093	13
756	Developing adverse outcome pathways on silver nanoparticle-induced reproductive toxicity via oxidative stress in the nematode Caenorhabditis elegans using a Bayesian network model. 2018 , 12, 1182-1197	18
755	Green-Synthesized Silver Nanoparticles and Their Potential for Antibacterial Applications. 2018,	1
754	Ag-Doped Zr(IV) and Al(III) Oxyhydroxides Adsorbents for Water Treatment. 2018,	O
753	OPTIMIZATION OF GREEN SYNTHESIZED SILVER NANOPARTICLES FROM CARALLUMA UMBELLATA. 2018 , 10, 103	2
75 ²	In Vitro morphological, optical and microbiological evaluation of nanosilver fluoride in the remineralization of deciduous teeth enamel. 2018 , 7, 509-520	4
751	Engineered Nanostructured Materials for Ofloxacin Delivery. 2018, 6, 554	9
750	Capsule-Integrated Polypeptide Multilayer Films for Effective pH-Responsive Multiple Drug Co-Delivery. 2018 , 10, 44267-44278	10
749	Tarnishing Silver Metal into Mithrene. 2018 , 140, 13892-13903	18
748	Controlled biosynthesis of silver nanoparticles using sugar industry waste, and its antimicrobial activity. 2018 , 6, 6275-6281	18
747	Graphene oxide-silver nanocomposites modulate biofilm formation and extracellular polymeric substance (EPS) production. 2018 , 10, 19603-19611	30
746	Anti-biofilm efficacy of root canal irrigants against in-situ Enterococcus faecalis biofilms in root canals, isthmuses and dentinal tubules. 2018 , 79, 68-76	21
745	Plasma membrane is the target of rapid antibacterial action of silver nanoparticles in and. 2018 , 13, 6779-67	90 56
744	Electrospun Nanomaterials Implementing Antibacterial Inorganic Nanophases. 2018, 8, 1643	16
743	Chitosan-Stabilized Ag Nanoparticles with Superior Biocompatibility and Their Synergistic Antibacterial Effect in Mixtures with Essential Oils. 2018 , 8,	49

(2018-2018)

742	nanocomposites: Characterization and antibacterial activity. 2018 , 154, 188-199	24
741	Synthesis and study of silver nanoparticles for antibacterial activity against Escherichia coli and Staphylococcus aureus. 2018 , 9, 025019	25
740	In vitro study of antimicrobial and cell viability on newly synthesized bioglass-based bone grafts: Effects of selenium and silver additions. 2018 , 232, 1039-1047	7
739	Synthesis, Characterization and Antimicrobial Properties of Silver Nanocomposites. 2018,	3
738	Endowing polyetheretherketone with synergistic bactericidal effects and improved osteogenic ability. 2018 , 79, 216-229	37
737	One-Pot Synthesis of Silver Nanoparticle Incorporated Mesoporous Silica Granules for Hemorrhage Control and Antibacterial Treatment. 2018 , 4, 3588-3599	21
736	Controllable synthesis of Ag nanoparticles encapsulated in non-ionic surfactant-based vesicle for photodegradation of methylene blue. 2018 , 29, 18249-18257	3
735	A black phosphorus based synergistic antibacterial platform against drug resistant bacteria. 2018 , 6, 6302-6310	68
734	Antibacterial Activity of Silver Nanoparticles: Structural Effects. 2018, 7, e1701503	321
733	Silver bullets: A new lustre on an old antimicrobial agent. 2018 , 36, 1391-1411	76
733 732	Silver bullets: A new lustre on an old antimicrobial agent. 2018 , 36, 1391-1411 Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. 2018 , 47, 5312-5337	76 39
	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences.	
732	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. 2018, 47, 5312-5337 Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured	39
73 ²	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. 2018, 47, 5312-5337 Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured Antibacterial Surfaces. 2018, 7, e1800103 Synthesizing selenium- and silver-substituted hydroxyapatite-based bone grafts and their effects	39 78
73 ² 73 ¹ 73 ⁰	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. 2018, 47, 5312-5337 Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured Antibacterial Surfaces. 2018, 7, e1800103 Synthesizing selenium- and silver-substituted hydroxyapatite-based bone grafts and their effects on antibacterial efficiency and cell viability. 2018, 63, 291-300	39 78
73 ² 73 ¹ 73 ⁰ 729	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. 2018, 47, 5312-5337 Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured Antibacterial Surfaces. 2018, 7, e1800103 Synthesizing selenium- and silver-substituted hydroxyapatite-based bone grafts and their effects on antibacterial efficiency and cell viability. 2018, 63, 291-300 Poly(ionic liquid)s as antimicrobial materials. 2018, 105, 135-149 Enhancing the antimicrobial and antibiofilm effectiveness of silver nanoparticles prepared by green	39 78 0
73 ² 73 ¹ 73 ⁰ 729 728	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. 2018, 47, 5312-5337 Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured Antibacterial Surfaces. 2018, 7, e1800103 Synthesizing selenium- and silver-substituted hydroxyapatite-based bone grafts and their effects on antibacterial efficiency and cell viability. 2018, 63, 291-300 Poly(ionic liquid)s as antimicrobial materials. 2018, 105, 135-149 Enhancing the antimicrobial and antibiofilm effectiveness of silver nanoparticles prepared by green synthesis. 2018, 6, 4124-4138	39 78 0 52 49

724	One-Step Synthesis of Quadrilateral-Shaped Silver Nanoplates with Lamellar Structures Tuned by Amylopectin Derivatives. 2018 , 3, 6841-6848	3
723	Synthesis of non-toxic, biocompatible, and colloidal stable silver nanoparticle using egg-white protein as capping and reducing agents for sustainable antibacterial application 2018 , 8, 23213-23229	34
722	Influence of growth media components on the antibacterial effect of silver ions on Bacillus subtilis in a liquid growth medium. 2018 , 8, 9325	11
721	Enhanced wound healing activity of Ag-ZnO composite NPs in Wistar Albino rats. 2018 , 12, 473-478	17
720	Green synthesis of silver nanoparticles and their applications as colorimetric probe for determination of Fe and Hg ions. 2018 , 12, 673-677	8
719	The Pros and Cons of the Use of Laser Ablation Synthesis for the Production of Silver Nano-Antimicrobials. 2018 , 7,	69
718	Layer-by-layer assembly of antibacterial composite coating for leather with cross-link enhanced durability against laundry and abrasion. 2018 , 458, 978-987	22
717	Atomic-engineered gold@silvergold alloy nanoflowers for in vivo inhibition of bacteria. 2018 , 10, 15661-1566	5810
716	Bottom-up Layer-by-Layer Assembling of Antibacterial Freestanding Nanobiocomposite Films. 2018 , 19, 3628-3636	19
715	Bio-based synthesis of silver nanoparticles from orange waste: effects of distinct biomolecule coatings on size, morphology, and antimicrobial activity. 2018 , 11, 1-14	57
714	Carbon Quantum Dot Surface-Chemistry-Dependent Ag Release Governs the High Antibacterial Activity of Ag-Metal-Organic Framework Composites 2018 , 1, 693-707	37
713	Learning from Nature: Bioinspired Strategies Towards Antimicrobial Nanostructured Systems. 2018 , 18, 22-41	29
712	Magnesium Oxide Nanoparticles: Effective Agricultural Antibacterial Agent Against. 2018 , 9, 790	138
711	Nanosynthesis of Silver-Calcium Glycerophosphate: Promising Association against Oral Pathogens. 2018 , 7,	14
710	Emerging investigator series: it's not all about the ion: support for particle-specific contributions to silver nanoparticle antimicrobial activity. 2018 , 5, 2047-2068	37
709	Silver Nanoparticles Synthesized Using Wild Mushroom Show Potential Antimicrobial Activities against Food Borne Pathogens. 2018 , 23,	64
708	Novel Weed-Extracted Silver Nanoparticles and Their Antibacterial Appraisal against a Rare Bacterium from River and Sewage Treatment Plan. 2017 , 8,	16
707	Small Meets Smaller: Effects of Nanomaterials on Microbial Biology, Pathology, and Ecology. 2018 , 12, 6351-6359	43

(2018-2018)

706	A poly(hydroxyethyl methacrylate)-Ag nanoparticle porous hydrogel for simultaneous in vivo prevention of the foreign-body reaction and bacterial infection. 2018 , 29, 395101	9
705	Tuning the Intrinsic Nanotoxicity in Advanced Therapeutics. 2018 , 1, 1800059	8
704	Interaction of green silver nanoparticles with model membranes: possible role in the antibacterial activity. 2018 , 171, 320-326	19
703	Comparison of thermally actuated retro-diels-alder release groups for nanoparticle based nucleic acid delivery. 2018 , 526, 312-321	13
702	Superior Bactericidal Efficacy of Fucose-Functionalized Silver Nanoparticles against Pseudomonas aeruginosa PAO1 and Prevention of Its Colonization on Urinary Catheters. 2018 , 10, 29325-29337	22
701	Facile and environmental benign in situ synthesis of silver nanoparticles for multifunctionalization of wool fibers. 2018 , 25, 29054-29069	20
700	Nanostructured scaffold with biomimetic and antibacterial properties for wound healing produced by 'green electrospinning'. 2018 , 172, 233-243	30
699	Antimicrobial potency of differently coated 10 and 50 nm silver nanoparticles against clinically relevant bacteria Escherichia coli and Staphylococcus aureus. 2018 , 170, 401-410	41
698	The Relationship between Dissolution Behavior and the Toxicity of Silver Nanoparticles on Zebrafish Embryos in Different Ionic Environments. 2018 , 8,	17
69 7	Antibacterial Photocurable Acrylic Resin Coating Using a Conjugate between Silver Nanoclusters and Alkyl Quaternary Ammonium. 2018 , 1, 4809-4818	9
696	Biosynthesis of TiO and ZnO nanoparticles by IBRC-M 10214 in different conditions of medium. 2018 , 8, 81-89	57
695	Plasma activated coatings with dual action against fungi and bacteria. 2018 , 12, 72-84	33
694	Dual function of EDTA with silver nanoparticles for root canal treatment-A novel modification. 2018 , 13, e0190866	17
693	Biomedical applications of zinc oxide nanoparticles. 2018 , 239-278	19
692	Antibacterial coordination polymer hydrogels composed of silver(i)-PEGylated bisimidazolylbenzyl alcohol 2018 , 8, 20829-20835	8
691	Preparation, Post-Modification, and Antibacterial Application of Gelatin Electrospun Membranes. 2018 , 18, e1800093	4
690	Facile and efficient in situ synthesis of silver nanoparticles on diverse filtration membrane surfaces for antimicrobial performance. 2018 , 456, 95-103	33
689	Charged nanoparticle induced pattern formation and dynamic re-organisation on model biomembranes. 2018 , 51, 304002	5

688	Assessment of three plant extracts to obtain silver nanoparticles as alternative additives to control biodeterioration of coatings. 2019 , 141, 52-61	24
687	Advances in catalytic/photocatalytic bacterial inactivation by nano Ag and Cu coated surfaces and medical devices. 2019 , 240, 291-318	65
686	Synthesis and Characterization of Gold-Silver Nanoparticles in Deionized Water by Pulsed Laser Ablation (PLAL) Technique at Different Laser Parameter. 2019 , 18, 1850015	4
685	Bio-friendly controllable synthesis of silver nanoparticles and their enhanced antibacterial property. 2019 , 327, 196-202	22
684	Silver ions cause oscillation of bacterial length of Escherichia coli. 2019 , 9, 11745	4
683	Antimicrobial Silver Nanoparticles for Wound Healing Application: Progress and Future Trends. 2019 , 12,	135
682	Hazardous effects of silver nanoparticles for primary producers in transitional water systems: The case of the seaweed Ulva rigida C. Agardh. 2019 , 131, 104942	7
681	Integrated nanotechnology of synergism-sterilization and removing-residues for neomycin through nano-CuO. 2019 , 183, 110371	4
68o	The Use of Functional Nanoparticles for Water Purification. 2019 , 600-614	О
679	Hybrid nanocellulose decorated with silver nanoparticles as reinforcing filler with antibacterial properties. 2019 , 105, 110044	18
678	Advanced Drug-Eluting Poly (Vinyl Chloride) Surfaces Deposited by Spin Coating. 2019, 55,	О
677	Antibacterial Effect of Silver and Iron Oxide Nanoparticles in Combination with Antibiotics on E. coli K12. 2019 , 9, 587-596	4
676	Density Functional Theory Study of the Spontaneous Formation of Covalent Bonds at the Silver/Silica Interface in Silver Nanoparticles Embedded in SiO2: Implications for Ag+ Release. 2019 , 2, 5179-5189	10
675	The Antibacterial Properties and Safety of a Nanoparticle-Coated Parquet Floor. 2019 , 9, 403	6
674	Ag Nanoparticles/	24
673	Green synthesis of polysaccharide-based inorganic nanoparticles and biomedical aspects. 2019 , 267-304	3
672	Rechargeable Antibacterial Polysulfonamide-Based -Halamine Nanofibrous Membranes for Bioprotective Applications 2019 , 2, 3668-3677	14
671	Liquid Exfoliation of Atomically Thin Antimony Selenide as an Efficient Two-Dimensional Antibacterial Nanoagent. 2019 , 11, 26664-26673	21

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670	Synthesis of CaO Nanocrystals and Their Spherical Aggregates with Uniform Sizes for Use as a Biodegradable Bacteriostatic Agent. 2019 , 15, e1902118	41
669	Two Dimensional Transition Metal Dichalcogenides. 2019,	3
668	Transition Metal Dichalcogenides for Biomedical Applications. 2019 , 241-292	1
667	growth of gut microbiota with selenium nanoparticles. 2019 , 5, 424-431	17
666	Chemical reaction kinetics and the characteristic properties of injectable adhesives of nano-hydroxyapatite/Ag3PO4/polyurethane for bone and tooth repair. 2019 , 1, 1	4
665	Silver∄inc oxide nanocomposite antiseptic from the extract of Bidens pilosa. 2019 , 1, 1	6
664	New branched flower-like Ag nanostructures for SERS analysis. 2019 , 578, 123600	13
663	Antibacterial Activity of TiO2- and ZnO-Decorated with Silver Nanoparticles. 2019 , 3, 61	40
662	Silver effect on the tribological and antibacterial properties of a-C:Ag coatings. 2019, 140, 105837	15
661	Micro- and Nanosystems for Advanced Transdermal Delivery. 2019 , 2, 1900141	8
660	The mechanistic actions of different silver species at the surfaces of polyacrylonitrile nanofibers regarding antibacterial activities. 2019 , 21, 100622	9
659	Yarrowia lipolytica: more than an oleaginous workhorse. 2019 , 103, 9251-9262	39
658	Application of nanomaterials in textile coatings and finishes. 2019 , 139-169	4
657	Silver nanoparticles grafted onto PET: Effect of preparation method on antibacterial activity. 2019 , 145, 104376	7
656	Avaliaß da atividade antimicrobiana e adsortividade de nanopart@ulas de s[]ca dopadas com CuO. 2019 , 24,	
655	Nanomaterials meet zebrafish: Toxicity evaluation and drug delivery applications. 2019 , 311-312, 301-318	49
654	Sensing by wireless reading Ag/AgCl redox conversion on RFID tag: universal, battery-less biosensor design. 2019 , 9, 12948	16
653	Redox interactions and genotoxicity of metal-based nanoparticles: A comprehensive review. 2019 , 312, 108814	64

652	Hybrid Clustered Nanoparticles for Chemo-Antibacterial Combinatorial Cancer Therapy. 2019 , 11,	7
651	Ag+ driven antimicrobial activity of Ag+: ZnO nanowires immobilized on paper matrices. 2019 , 8, 100490	2
650	Recent Progresses of Forward Osmosis Membranes Formulation and Design for Wastewater Treatment. 2019 , 11, 2043	37
649	Three-Dimensional Stable Cation-Exchange Membrane with Enhanced Mechanical, Electrochemical, and Antibacterial Performance by in Situ Synthesis of Silver Nanoparticles. 2019 , 4, 16619-16628	4
648	Microstructure, bio-corrosion and biological property of Ag-incorporated TiO2 coatings: Influence of Ag2O contents. 2019 , 45, 22357-22367	28
647	Silver nanoparticles with pH induced surface charge switchable properties for antibacterial and antibiofilm applications. 2019 , 7, 830-840	49
646	Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. 2019 , 48, 428-446	262
645	Synthesis of silver nanoparticles using Fagonia cretica and their antimicrobial activities. 2019 , 1, 1707-1713	29
644	Engineering silver-zwitterionic composite nanofiber membrane for bacterial fouling resistance. 2019 , 136, 47580	8
643	Surface functionalization of electrospun PAN nanofibers with ZnO-Ag heterostructure nanoparticles: synthesis and antibacterial study. 2019 , 30, 205704	28
642	Plug-and-play safe-by-design production of metal-doped tellurium nanoparticles with safer antimicrobial activities. 2019 , 6, 2074-2083	4
641	AgNP combined with quorum sensing inhibitor increased the antibiofilm effect on Pseudomonas aeruginosa. 2019 , 103, 6195-6204	3
640	Mycosynthesis, characterization, anticancer and antibacterial activity of silver nanoparticles from endophytic fungus. 2019 , 14, 3427-3438	61
639	Silver Nanoparticles on Cellulose Surfaces: Quantitative Measurements. 2019 , 9,	5
638	Preparation of silver nanoparticle-containing ceramic filter by in-situ reduction and application for water disinfection. 2019 , 7, 103176	13
637	Modulation by surroundings of the antibacterial efficiency of silver in water environments. 2019 , 21, 1	O
636	Nanoscale reorganizations of histone-like nucleoid structuring proteins in Escherichia coli are caused by silver nanoparticles. 2019 , 30, 385101	13
635	Facile Peptide Bond Formation: Effective Interplay between Isothiazolone Rings and Silanol Groups at Silver/Iron Oxide Nanocomposite Surfaces. 2019 , 4, 10629-10639	71

634	Surface Functionalization of Bioactive Glasses with Polyphenols from Padina pavonica Algae and In Situ Reduction of Silver Ions: Physico-Chemical Characterization and Biological Response. 2019 , 9, 394	13
633	The interaction of silver(II) complexes with biological macromolecules and antioxidants. 2019 , 32, 627-640	4
632	Cell membrane camouflaged nanoparticles: a new biomimetic platform for cancer photothermal therapy. 2019 , 14, 4431-4448	52
631	Preparation and characterization of poly(vinyl alcohol)/modified clay electrospun nanocomposite nanofibrous mats for microbial protection. 2019 , 110, 1624-1634	6
630	Advances in the Experimental and Theoretical Understandings of Antibiotic Conjugated Gold Nanoparticles for Antibacterial Applications. 2019 , 4, 6719-6738	13
629	An electrospun fibrous platform for visualizing the critical pH point inducing tooth demineralization. 2019 , 7, 4292-4298	3
628	Influence of Preparation Procedure on Physicochemical and Antibacterial Properties of Titanate Nanotubes Modified with Silver. 2019 , 9,	12
627	Starch and its derivatives for paper coatings: A review. 2019 , 135, 213-227	51
626	Toxicity of differently sized and charged silver nanoparticles to yeast BY4741: a nano-biointeraction perspective. 2019 , 13, 1041-1059	16
625	Interaction between Silver Nanoparticles and Two Dehydrogenases: Role of Thiol Groups. 2019 , 15, e1900860	18
624	Ultrafine Silver Nanoparticles Embedded in Cyclodextrin Metal-Organic Frameworks with GRGDS Functionalization to Promote Antibacterial and Wound Healing Application. 2019 , 15, e1901065	60
623	Polydopamine-decorated tobacco mosaic virus for photoacoustic/magnetic resonance bimodal imaging and photothermal cancer therapy. 2019 , 11, 9760-9768	22
622	Green Synthesis of Silver Nanoparticles and Their Effective Utilization in Fabricating Functional Surface for Antibacterial Activity Against Multi-Drug Resistant Proteus mirabilis. 2019 , 30, 1403-1414	11
621	Naturally-derived electrospun wound dressings for target delivery of bio-active agents. 2019 , 566, 307-328	64
620	Super-hydrophobic and antimicrobial properties of Ag-PPFC nanocomposite thin films fabricated using a ternary carbon nanotube-Ag-PTFE composite sputtering target. 2019 , 370, 18-23	18
619	Application of Silver Antibacterial and Antifungal Nanolayers for Ocular Prostheses Coating. 2019 , 216, 1800695	
618	TRAIL encapsulated to polypeptide-crosslinked nanogel exhibits increased anti-inflammatory activities in Klebsiella pneumoniae-induced sepsis treatment. 2019 , 102, 85-95	17
617	Green and scalable synthesis of nanosilver loaded silica microparticles by spray-drying: application as antibacterial agent, catalyst and SERS substrate. 2019 , 9, 1925-1937	6

616 Measurement of nanoscale surface roughness using electronic speckle pattern interferometer. **2019**,

615	Optical sensor developed from nano-silver / poly(vinyl alcohol) composite. 2019 , 232, 278-283	3
614	Mesoporous and Nanocomposite Fibrous Materials Based on Poly(ethylene terephthalate) Fibers with High Craze Density via Environmental Crazing: Preparation, Structure, and Applied Properties. 2019 , 11, 18701-18710	5
613	Bioactive inorganic-ion-doped titania nanotube coatings on bone implants with enhanced osteogenic activity and antibacterial properties. 2019 , 401-427	
612	Spectroscopic characterization and photodynamic antimicrobial chemotherapy of phthalocyanine-silver triangular nanoprism conjugates when supported on asymmetric polymer membranes. 2019 , 219, 333-345	11
611	Antimicrobial activity of silver nanoparticles. 2019 , 461-484	29
610	Synthesis of Silver Nanoparticles Loaded onto Polymer-Inorganic Composite Materials and Their Regulated Catalytic Activity. 2019 , 11,	14
609	Montmorillonite with unique interlayer space imparted polymer scaffolds with sustained release of Ag+. 2019 , 45, 11517-11526	7
608	In the Search for Nanospecific Effects of Dissolution of Metallic Nanoparticles at Freshwater-Like Conditions: A Critical Review. 2019 , 53, 4030-4044	33
607	Melamine-promoted formation of bright and stable DNA-silver nanoclusters and their antimicrobial properties. 2019 , 7, 2512-2517	6
606	Studies on interaction of green silver nanoparticles with whole bacteria by surface characterization techniques. 2019 , 1861, 1086-1092	19
605	Pyrolysis preparation of poly-Eglutamic acid derived amorphous carbon nitride for supporting Ag and EFeO nanocomposites with catalytic and antibacterial activity. 2019 , 101, 138-147	10
604	Photocatalytic and Antimicrobial Properties of Ga Doped and Ag Doped ZnO Nanorods for Water Treatment. 2019 , 9, 165	16
603	Antibacterial activity of chitosan nano-composites and carbon nanotubes: A review. 2019 , 668, 566-576	64
602	Designing Melittin-Graphene Hybrid Complexes for Enhanced Antibacterial Activity. 2019 , 8, e1801521	23
601	Antibacterial activity and corrosion resistance of Ta2O5 thin film and electrospun PCL/MgO-Ag nanofiber coatings on biodegradable Mg alloy implants. 2019 , 45, 11883-11892	41
600	TiOIDecorated Graphene as a Fluorescent Chemosensor for the Detection of Silver Ions. 2019 , 19, 5189-5194	6
599	Porphyrin-silver nanoparticles hybrids: Synthesis, characterization and antibacterial activity. 2019 , 102, 192-199	24

598	Nontoxic glasses: Preparation, structural, electrical and biological properties. 2019, 16, 1885-1894	6
597	Correlation between the rate of silver nanoparticle oxidation and their biological activity: the role of the capping agent. 2019 , 21, 1	2
596	Preparation and antibacterial activity of silver-loaded poly(oligo(ethylene glycol) methacrylate) brush. 2019 , 30, 756-768	О
595	Antimicrobial propensity of ultrananocrystalline diamond films with embedded silver nanodroplets. 2019 , 93, 168-178	6
594	Silver Nanoparticles: Synthesis and Application for Nanomedicine. 2019 , 20,	498
593	Differential transformation and antibacterial effects of silver nanoparticles in aerobic and anaerobic environment. 2019 , 13, 339-353	4
592	Mechanistic studies on the antibacterial behavior of Ag nanoparticles decorated with carbon dots having different oxidation degrees. 2019 , 6, 1168-1179	20
591	Antibacterial Behavior of Hybrid Nanoparticles. 2019 , 141-155	10
590	A comparison of the characteristics of polyurethane-based sealers including various antimicrobial agents 2019 , 9, 7043-7056	6
589	Silver Nanoparticles as Multi-Functional Drug Delivery Systems. 2019,	26
588	Antibacterial nanoparticles: enhanced antibacterial efficiency of coral-like crystalline rhodium nanoplates 2019 , 9, 6241-6244	3
587	Wood-Based Mesoporous Filter Decorated with Silver Nanoparticles for Water Purification. 2019 , 7, 5134-514	1150
586	Effect of silver nanoparticles with polyelectrolyte multilayer against Aggregatibacter actinomycetemcomitans. 2019 , 635, 012005	
585	The plasma-chemical formation of polysorbate 80-coated silver nanoparticles and composite materials for water treatment. 2019 , 48, 431-438	3
584	Application of silver antibacterial nanolayers for hard contact lenses coating. 2019, 618, 012028	1
583	Silver nanoparticle-graphene oxide mixture as anti-bacterial against Staphylococcus aureus. 2019,	1
582	Effects of Chloride Concentration on the Water Disinfection Performance of Silver Containing Nanocellulose-based Composites. 2019 , 9, 19505	8
581	. 2019,	1

580	Self-assembled Ag(111) nanostructures induced by Fermi surface nesting. 2019, 100,	4
579	Dendronized Silver Nanoparticles as Bacterial Membrane Permeabilizers and Their Interactions With Lipopolysaccharides, Lysozymes, and Phage-Derived Endolysins. 2019 , 10, 2771	14
578	Nanostructured Silver Coating as a Stationary Phase for Capillary Gas Chromatography. 2019 , 24,	O
577	Immobilization-Enhanced Eradication of Bacterial Biofilms and in situ Antimicrobial Coating of Implant Material Surface - an in vitro Study. 2019 , 14, 9351-9360	8
576	Nanotechnology for Agriculture: Crop Production & Protection. 2019,	3
575	Roles of silver nanoparticles adsorbed ions and nanoparticles in antimicrobial activity of biosynthesized silver nanoparticles. 2019 , 6, 1250a6	3
574	Photoluminescence-tunable fluorescent carbon dots-deposited silver nanoparticle for detection and killing of bacteria. 2019 , 97, 613-623	32
573	Antibacterial activity of quaternized chitosan modified nanofiber membrane. 2019 , 126, 569-577	66
572	Silver Ion-Histidine Interplay Switches Peptide Hydrogel from Antiparallel to Parallel Assembly and Enables Controlled Antibacterial Activity. 2019 , 20, 558-565	25
571	Effect of zeolite on the corrosion behavior, biocompatibility and antibacterial activity of porous magnesium/zeolite composite scaffolds. 2019 , 34, 258-269	9
570	Transcriptome analysis of silver nanoparticles treated Staphylococcus aureus reveals potential targets for biofilm inhibition. 2019 , 175, 487-497	17
569	Superhydrophobic cotton gauze with durably antibacterial activity as skin wound dressing. 2019 , 26, 1383-1397	25
568	Efficient decontamination of multi-component wastewater by hydrophilic electrospun PAN/AgBr/Ag fibrous membrane. 2019 , 361, 1255-1263	29
567	Ag NP-Loaded Cotton Fiber Materials: Preparation, Surface Deposition, and Antibacterial Activity with Different Chemical Structures 2019 , 2, 510-517	8
566	Antibacterial activity of Ag nanoparticle-containing hydroxyapatite powders in simulated body fluids with Cl ions. 2019 , 223, 473-478	8
565	Synthesis of Silver Nanoparticles Embedded Electrospun PAN Nanofiber Thin-Film Composite Forward Osmosis Membrane to Enhance Performance and Antimicrobial Activity. 2019 , 58, 984-993	43
564	Nanostructured Ag thin films deposited by pulsed electron ablation. 2019 , 475, 917-925	13
563	Detection of the conformational changes of Discosoma red fluorescent proteins adhered on silver nanoparticles-based nanocomposites via surface-enhanced Raman scattering. 2019 , 30, 165101	О

(2019-2019)

562	Preparation and antibacterial properties of nano biocomposite Poly(Laprolactone)-SiO2 films with nanosilver. 2019 , 26, 1	6
561	Zeolite-supported silver as antimicrobial agents. 2019 , 383, 1-29	42
560	Enhanced filtration performance and anti-biofouling properties of antibacterial polyethersulfone membrane for fermentation broth concentration. 2019 , 72, 346-353	6
559	Photogenerated Charge Carriers in Molybdenum Disulfide Quantum Dots with Enhanced Antibacterial Activity. 2019 , 11, 4858-4866	60
558	Facile synthesis of silver-decorated magnetic nanospheres used as effective and recyclable antibacterial agents. 2019 , 19, 114-119	1
557	Development of Multimodal Antibacterial Surfaces Using Porous Amine-Reactive Films Incorporating Lubricant and Silver Nanoparticles. 2019 , 11, 6550-6560	25
556	Poly(dopamine) and Ag nanoparticle-loaded TiO nanotubes with optimized antibacterial and ROS-scavenging bioactivities. 2019 , 14, 803-818	20
555	Sol?Gel Synthesis of Silica-Based Materials with Different Percentages of PEG or PCL and High Chlorogenic Acid Content. 2019 , 12,	35
554	Antimicrobial properties of MFeO (M = Mn, Mg)/reduced graphene oxide composites synthesized via solvothermal method. 2019 , 95, 43-48	12
553	Antimicrobial activities of mesoporous nickel phosphate synthesized with low-temperature method. 2019 , 145, 113-118	8
552	Advances in Porous Silicon ${f B}$ as ed Nanomaterials for Diagnostic and Therapeutic Applications. 2019, 2, 1800095	67
551	CrAg coatings: synthesis, microstructure and antimicrobial properties. 2019 , 35, 596-603	3
550	In vitro evaluation of antimicrobial property of silver nanoparticles and chlorhexidine against five different oral pathogenic bacteria. 2019 , 31, 76-83	43
549	Silver-incorporated poly vinylidene fluoride nanofibers for bacterial filtration. 2019 , 53, 196-206	17
548	Mussel-inspired superhydrophilic surface with enhanced antimicrobial properties under immersed and atmospheric conditions. 2019 , 465, 267-278	29
547	Ag-Containing Nanomaterials in Heterogeneous Catalysis: Advances and Recent Trends. 2019 , 143-175	4
546	Dual impact of dissolved organic matter on cytotoxicity of PVP-Ag NPs to Escherichia coli: Mitigation and intensification. 2019 , 214, 754-763	11
545	A review of antimicrobial fabric containing nanostructures metal-based compound. 2019 , 25, E3-E27	34

544	Ganoderma applanatum-mediated green synthesis of silver nanoparticles: Structural characterization, and in vitro and in vivo biomedical and agrochemical properties. 2019 , 12, 1108-1120	65
543	Nanotechnology-based biomaterials for orthopaedic applications: Recent advances and future prospects. 2020 , 106, 110154	69
542	Synthesis, characterization and antibacterial application of silver nanoparticle embedded composite cryogels. 2020 , 1200, 127060	16
541	Biotechnological Tools in the Production of Functional Cereal-Based Beverages. 2020 , 149-193	4
540	Ag nanoparticles-coated cotton fabric for durable antibacterial activity: derived from phytic acidAg complex. 2020 , 111, 855-861	11
539	Synthesis and characterization of silver nanoparticles-doped hydroxyapatite/alginate microparticles with promising cytocompatibility and antibacterial properties. 2020 , 585, 124081	32
538	A polymer nanocomposite coating with enhanced hydrophilicity, antibacterial and antibiofouling properties: Role of polymerizable emulsifier/anionic ligand. 2020 , 379, 122268	24
537	Synthesis of silver nanoparticles colloids in imidazolium halide ionic liquids and their antibacterial activities for gram-positive and gram-negative bacteria. 2020 , 243, 125302	20
536	Biosynthesis of silver nanoparticles using leaf extract of Aesculus hippocastanum (horse chestnut): Evaluation of their antibacterial, antioxidant and drug release system activities. 2020 , 107, 110207	58
535	The toxicity of silver nanomaterials (NM 300K) is reduced when combined with N-Acetylcysteine: Hazard assessment on Enchytraeus crypticus. 2020 , 256, 113484	7
534	Nanoparticles in dermatologic surgery. 2020 , 83, 1144-1149	4
533	In Vitro Evaluation of Antibacterial Properties and Smear Layer Removal/Sealer Penetration of a Novel Silver-Citrate Root Canal Irrigant. 2020 , 13,	10
532	Polymer-assisted in-situ thermal reduction of silver precursors: A solventless route for silver nanoparticles-polymer composites. 2020 , 389, 123983	20
531	Antibacterial, Flexible, and Conductive Membrane Based on MWCNTs/Ag Coated Electro-Spun PLA Nanofibrous Scaffolds as Wearable Fabric for Body Motion Sensing. 2020 , 12,	8
530	Silver nanoparticles: Toxicity in model organisms as an overview of its hazard for human health and the environment. 2020 , 390, 121974	116
529	The Pulsed Electron Deposition Technique for Biomedical Applications: A Review. 2020 , 10, 16	8
528	Electrochemical Scaffold Based on Silver Phosphate Nanoparticles for the Quantification of Acetaminophen in Body Fluids and Pharmaceutical Formulations. 2020 , 3, 1213-1222	5
527	Synthesis of seleniumBilver nanostructures with enhanced antibacterial, photocatalytic and antioxidant activities. 2020 , 10, 1191-1204	7

526	Antimicrobial Electrodeposited Silver-Containing Calcium Phosphate Coatings. 2020, 12, 5531-5541	37
525	A BiS@mSiO@Ag nanocomposite for enhanced CT visualization and antibacterial response in the gastrointestinal tract. 2020 , 8, 666-676	3
524	Synthesis and antibacterial activity of solanum torvum mediated silver nanoparticle against Xxanthomonas axonopodis pv.punicae and Ralstonia solanacearum. 2020 , 309, 20-28	24
523	Distinct mechanisms in the heteroaggregation of silver nanoparticles with mineral and microbial colloids. 2020 , 170, 115332	11
522	Carbohydrate polymer-based silver nanocomposites: Recent progress in the antimicrobial wound dressings. 2020 , 231, 115696	59
521	Dynamic nano-Ag colloids cytotoxicity to and accumulation by Escherichia coli: Effects of Fe, ionic strength and humic acid. 2020 , 89, 180-193	7
520	Development of silver/graphene oxide nanocomposites for antibacterial and antibiofilm applications. 2020 , 83, 46-52	16
519	Insights into the antimicrobial mechanism of Ag and I incorporated ZnO nanoparticle derivatives under visible light. 2020 , 107, 110220	11
518	Embedding ultrasmall Ag nanoclusters in Luria-Bertani extract via light irradiation for enhanced antibacterial activity. 2020 , 13, 203-208	28
517	Synthesis of silver nanoparticles with remediative potential using discarded yerba mate: An eco-friendly approach. 2020 , 8, 104425	6
516	Recent developments in biomolecule-based nanoencapsulation systems for antimicrobial delivery and biofilm disruption. 2020 , 56, 13907-13917	6
515	Tackling Multidrug Resistance in Streptococci - From Novel Biotherapeutic Strategies to Nanomedicines. 2020 , 11, 579916	10
514	Cellular uptake and retention of nanoparticles: Insights on particle properties and interaction with cellular components. 2020 , 25, 101692	19
513	Improved antimicrobial properties of methylene blue attached to silver nanoparticles. 2020 , 32, 102012	3
512	Green biosynthesis of silver nanoparticle using Commiphora myrrh extract and evaluation of their antimicrobial activity and colon cancer cells viability. 2020 , 32, 3372-3379	3
511	Silver Nanoparticles Protect Skin from Ultraviolet B-Induced Damage in Mice. 2020 , 21,	11
510	LED Exposure Modulates the Biosynthesis of Silver Nanoparticles from Root Tuber Extract of Chlorophytum borivilianum and their Phytotoxicty. 2020 , 32, 1325	1
509	Biogenically Synthesized Polysaccharides-Capped Silver Nanoparticles: Immunomodulatory and Antibacterial Potentialities Against Resistant. 2020 , 8, 643	11

Synthesis and characterization of silver nanoparticles-doped titanium (IV) oxide thin films. 2020, 508 805, 012034 Lotus leaf inspired antiadhesive and antibacterial gauze for enhanced infected dermal wound 507 30 regeneration. 2020, 402, 126202 Quantitative Photoacoustic Diagnosis and Precise Treatment of Inflammation In Vivo Using 506 27 Activatable Theranostic Nanoprobe. 2020, 30, 2001771 Quality-by-Design Approach for the Development of Nano-Sized Tea Tree Oil 505 Formulation-Impregnated Biocompatible Gel with Antimicrobial Properties. 2020, 12, Anti-Influenza Effect of Nanosilver in a Mouse Model. 2020, 8, 504 3 Latest Advances on Bacterial Cellulose-Based Antibacterial Materials as Wound Dressings. 2020, 8, 593768 503 30 Nanomaterials for Diagnosis and Treatment of Brain Cancer: Recent Updates. 2020, 8, 117 502 50 Nano-Modified Titanium Implant Materials: A Way Toward Improved Antibacterial Properties. 2020, 501 29 8,576969 Photocatalytic TiO2-Based Nanostructured Materials for Microbial Inactivation. 2020, 10, 1382 500 19 Two-Dimensional Nanomaterials for Photoinduced Antibacterial Applications.. 2020, 3, 8188-8210 499 13 Silver-Based Nanomaterials as Therapeutic Agents Against Coronaviruses: A Review. 2020, 15, 9301-9315 498 19 Synthesis and analysis of silverdopper alloy nanoparticles of different ratios manifest anticancer 6 497 activity in breast cancer cells. 2020, 11, Development of a novel silver ions-nanosilver complementary composite as antimicrobial additive 496 15 for powder coating. 2021, 420, 127633 Synergistic effects of combinatorial chitosan and polyphenol biomolecules on enhanced 495 29 antibacterial activity of biofunctionalaized silver nanoparticles. 2020, 10, 19615 Sunlight-Driven Synthesis of Silver Nanoparticles Using Pomelo Peel Extract and Antibacterial 9 494 Testing. 2020, 2020, 1-9 Physicochemical and antimicrobial properties of post-synthesis betanin and chitosan 493 3 oligosaccharide functionalized silver nanoparticles. 2020, 22, 1 Dispersion, availability, and antimicrobial activity of silver nanoparticles during application to 492 1 drinking water of the poultry. 2020, 14, 100368 Inorganic nanoparticles for natural product delivery: a review. 2020, 18, 2107-2118 491 11

490	Emerging investigator series: quantifying silver nanoparticle aggregation kinetics in real-time using particle impact voltammetry coupled with UV-vis spectroscopy. 2020 , 7, 2509-2521	3
489	Synthesis of nickel nanoparticles by a green and convenient method as a magnetic mirror with antibacterial activities. 2020 , 10, 12627	26
488	New Relevant Descriptor of Linear QNAR Models for Toxicity Assessment of Silver Nanoparticles. 2020 , 10,	6
487	Distributed Bragg reflectors for the colorimetric detection of bacterial contaminants and pollutants for food quality control. 2020 , 5, 080901	8
486	Large scale synthesis of silver vanadate nanowires consolidated into bulk cylinder with enhanced antibacterial properties. 2020 , 278, 128403	2
485	Antibacterial silver submicron wire-polylactic acid composites for fused filament fabrication. 2020 , 26, 32-38	13
484	The Crucial Role of Environmental Coronas in Determining the Biological Effects of Engineered Nanomaterials. 2020 , 16, e2003691	28
483	Polydopamine Surface Coating Synergizes the Antimicrobial Activity of Silver Nanoparticles. 2020 , 12, 40067-40077	37
482	Nanostructured selenium-doped biphasic calcium phosphate with in situ incorporation of silver for antibacterial applications. 2020 , 10, 13738	8
481	Enhancement in the antibacterial activity of cephalexin by its delivery through star-shaped poly(Etaprolactone)-block-poly(ethylene oxide) coated silver nanoparticles. 2020 , 7, 201097	
480	Cereal-Based Nonalcoholic Beverages. 2020 , 63-99	4
479	Biosynthesis of Silver Nanoparticles Using Culture Supernatant of sp. ARY1 and Their Antibacterial Activity. 2020 , 15, 8295-8310	11
478	Amphiphilic silver nanoclusters show active nanoBio interaction with compelling antibacterial activity against multidrug-resistant bacteria. 2020 , 12,	5
477	The Development of Antibiotics Based on Nanostructured Manganese Oxide; Understanding Mechanism from Fundamental Aspects to Application. 2020 , 20, 7618-7628	
476	Antibacterial N-halamine fibrous materials. 2020 , 22, 100487	10
475	Carbene modification and reversible crosslinking of silver nanoparticles for controlled antibacterial activity. 2020 , 10, 14937	O
474	Combined effect of proteins and AgNPs on the adhesion of yeast Candida albicans on solid silica surfaces. 2020 ,	1
473	Ultrasmall AgNP-Impregnated Biocompatible Hydrogel with Highly Effective Biofilm Elimination Properties. 2020 , 12, 41011-41025	34

472	Sequential Growth as a Mechanism of Silver-Glutathione Monolayer-Protected Cluster Formation. 2021 , 17, e2002238	2
471	Hepatoprotective silver nanoformulation against multidrug resistant bacteria and the integration of a multicomponent logic gate system. 2020 , 12, 19149-19158	
470	Mechanisms and efficacy of disinfection in ceramic water filters: A critical review. 2020 , 1-41	6
469	Antimicrobial and Biocompatible Polycaprolactone and Copper Oxide Nanoparticle Wound Dressings against Methicillin-Resistant. 2020 , 10,	15
468	A New Nano-Platform of Erythromycin Combined with Ag Nano-Particle ZnO Nano-Structure against Methicillin-Resistant. 2020 , 12,	8
467	Enhancing Antibacterial Performance and Biocompatibility of Pure Titanium by a Two-Step Electrochemical Surface Coating. 2020 , 12, 44433-44446	18
466	A Review of Conductive Hydrogel Used in Flexible Strain Sensor. 2020 , 13,	37
465	Fabrication of multifunctional TANI/CuO/Ag nanocomposite for environmental abatement. 2020 , 10, 14080	9
464	Electrospun Nanofibers for Improved Angiogenesis: Promises for Tissue Engineering Applications. 2020 , 10,	44
463	Multiplexed Nanobiosensors: Current Trends in Early Diagnostics. 2020 , 20,	13
462	Bicomponent drug formulation for simultaneous release of Ag and sulfadiazine supported on nanosized zeolite Beta. 2020 , 24, 100562	1
461	Adsorption of Ag (I) from Aqueous Solutions Using Regenerated Silk Fibroin Adsorbent Beads. 2020 , 1-13	1
460	Multifunctional green silver nanoparticles in pharmaceutical and biomedical applications. 2020 , 13, 316-327	4
459	The Bio-Synthesis of Three Metal Oxide Nanoparticles (ZnO, MnO, and MgO) and Their Antibacterial Activity Against the Bacterial Leaf Blight Pathogen. 2020 , 11, 588326	25
458	Nano-based antiviral coatings to combat viral infections. 2020 , 24, 100620	25
457	Photochemical Preparation of Silver Colloids in Hydroxypropyl Methylcellulose for Antibacterial Materials with Controlled Release of Silver. 2020 , 10, 1046	3
456	Dual-Mode Solution Plasma Processing for the Production of Chitosan/Ag Composites with the Antibacterial Effect. 2020 , 13,	9
455	Bioinspired Green Synthesis of Chitosan and Zinc Oxide Nanoparticles with Strong Antibacterial Activity against Rice Pathogen pv 2020 , 25,	23

4	454	Applied Properties. 2020 , 2, 2338-2349	4
4	453	Direct evaluation of microbial growth dynamics and colloidal stability of silver nanoparticles stabilized by poly(vinyl pyrrolidone) and poly(vinyl alcohol). 2020 , 22, 1	3
4	452	Sustainable Agriculture Reviews 44. 2020 ,	1
,	451	Biofilm Eradication Using Biogenic Silver Nanoparticles. 2020 , 25,	23
4	450	Photosensitized reactive chlorine species-mediated therapeutic destruction of drug-resistant bacteria using plasmonic core-shell Ag@AgCl nanocubes as an external nanomedicine. 2020 , 12, 12970-12984	21
4	449	Fabrication of Polyamide-Ag2Se composite films with controllable properties by an adsorption diffusion method. 2020 , 145, 109533	3
4	448	Thiolate-Capped Silver Nanoparticles: Discerning Direct Grafting from Sulfidation at the Metalligand Interface by Interrogating the Sulfur Atom. 2020 , 124, 13467-13478	8
4	447	Biogenic iron-silver nanoparticles inhibit bacterial biofilm formation due to Ag release as determined by a novel phycoerythrin-based assay. 2020 , 104, 6325-6336	11
4	446	Antimicrobial ultrathin film based on well-defined silver nanoparticles and polylactide. 2020 , 11, 025014	3
4	445	Chitosan-coated silver nanoparticles promoted antibacterial, antibiofilm, wound-healing of murine macrophages and antiproliferation of human breast cancer MCF 7 cells. 2020 , 90, 106675	21
4	444	Nanoparticle-Based Wound Dressing: Recent Progress in the Detection and Therapy of Bacterial Infections. 2020 , 31, 1708-1723	37
4	443	High-Performance Electromagnetic Interference Shielding Electrodes/Substrates for Wearable Electronics. 2020 , 59, 12774-12783	6
4	442	Emerging 2D pnictogens for catalytic applications: status and challenges. 2020 , 8, 12887-12927	17
4	441	Sodium hexametaphosphateIhduced enhancement of silver nanoparticle toxicity towards leukemia cells. 2020 , 22, 1	3
4	440	MORPHOLOGIES OF SILVER NANOPARTICLES (Ag NPs) SYNTHESIZED BY HYDROTHERMAL AND LASER ABLATION TECHNIQUES. 2020 , 27, 2050015	О
,	439	Synthesis of nanostructured mesoporous silica-coated magnetic nuclei with polyelectrolyte layers for tetracycline hydrochloride control release. 2020 , 10, 3693-3702	2
4	438	Silver∄nzyme hybrids as wide-spectrum antimicrobial agents. 2020 , 293-307	О
4	437	Circumventing antimicrobial-resistance and preventing its development in novel, bacterial infection-control strategies. 2020 , 17, 1151-1164	15

436	Silver nanoparticles biosynthesized by Anabaena flos-aquae enhance the apoptosis in breast cancer cell line. 2020 , 43, 1	16
435	3D printing of silver-doped polycaprolactone-poly(propylene succinate) composite scaffolds for skin tissue engineering. 2020 , 15, 035015	16
434	Nanoparticles and their Biomedical Applications. 2020,	1
433	Synthesis and Characterization of Chitosan Filtration Membranes with Enhanced Antimicrobial Properties. 2020 , 2, 20-26	
432	Simple and cleaner system of silver nanoparticle synthesis using kenaf seed and revealing its anticancer and antimicrobial potential. 2020 , 31, 265101	18
431	Polydopamine/silver hybrid coatings on soda-lime glass spheres with controllable release ability for inhibiting biofilm formation. 2020 , 63, 842-850	6
430	Mussel-inspired coordination functional polymer brushes-decorated rGO-stabilized silver nanoparticles composite for antibacterial application. 2020 , 11, 2822-2830	4
429	Plasma-liquid synthesis of silver nanoparticles and their antibacterial and antifungal applications. 2020 , 7, 035015	5
428	Removal of bacteria, viruses, and other microbial entities by means of nanoparticles. 2020, 465-491	5
427	Health Impact of Silver Nanoparticles: A Review of the Biodistribution and Toxicity Following Various Routes of Exposure. 2020 , 21,	231
427 426		231
	Various Routes of Exposure. 2020 , 21, Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of	
426	Various Routes of Exposure. 2020 , 21, Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of bacteria. 2020 , 223, 125-135 Size and Shape-Dependent Antimicrobial Activities of Silver and Gold Nanoparticles: A Model Study	11
426 425	Various Routes of Exposure. 2020, 21, Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of bacteria. 2020, 223, 125-135 Size and Shape-Dependent Antimicrobial Activities of Silver and Gold Nanoparticles: A Model Study as Potential Fungicides. 2020, 25, Investigation the potential use of silver nanoparticles synthesized by propolis extract as	11 32
426 425 424	Various Routes of Exposure. 2020, 21, Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of bacteria. 2020, 223, 125-135 Size and Shape-Dependent Antimicrobial Activities of Silver and Gold Nanoparticles: A Model Study as Potential Fungicides. 2020, 25, Investigation the potential use of silver nanoparticles synthesized by propolis extract as N-acyl-homoserine lactone-mediated quorum sensing systems inhibitor. 2020, 50, 1147-1156 Deposition of Phosphate Nanoparticles onto Textile Fabrics via Sol-gel Method and Their Kinetics	11 32 7
426 425 424 423	Various Routes of Exposure. 2020, 21, Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of bacteria. 2020, 223, 125-135 Size and Shape-Dependent Antimicrobial Activities of Silver and Gold Nanoparticles: A Model Study as Potential Fungicides. 2020, 25, Investigation the potential use of silver nanoparticles synthesized by propolis extract as N-acyl-homoserine lactone-mediated quorum sensing systems inhibitor. 2020, 50, 1147-1156 Deposition of Phosphate Nanoparticles onto Textile Fabrics via Sol-gel Method and Their Kinetics Desorption Studies. 2020, 36, 877-884	11 32 7
426 425 424 423 422	Various Routes of Exposure. 2020, 21, Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of bacteria. 2020, 223, 125-135 Size and Shape-Dependent Antimicrobial Activities of Silver and Gold Nanoparticles: A Model Study as Potential Fungicides. 2020, 25, Investigation the potential use of silver nanoparticles synthesized by propolis extract as N-acyl-homoserine lactone-mediated quorum sensing systems inhibitor. 2020, 50, 1147-1156 Deposition of Phosphate Nanoparticles onto Textile Fabrics via Sol-gel Method and Their Kinetics Desorption Studies. 2020, 36, 877-884 Cell responses to titanium and titanium alloys. 2020, 423-452	11 32 7 0

418	Influence of silver speciation on the inflammatory regulation of AgNPs anchoring onto titania nanotubes. 2020 , 194, 111199	2
417	How Microbial Biofilms Control the Environmental Fate of Engineered Nanoparticles?. 2020, 8,	11
416	Progress in the Preparation of Silver Nanometer Antibacterial Material. 2020, 996, 76-81	4
4 ¹ 5	Silver Nanostructures, Chemical Synthesis Methods, and Biomedical Applications. 2020 , 281-303	
414	Doping bioactive elements into a collagen scaffold based on synchronous self-assembly/mineralization for bone tissue engineering. 2020 , 5, 844-858	25
413	Naked Selenium Nanoparticles for Antibacterial and Anticancer Treatments. 2020 , 5, 2660-2669	60
412	One step synthesis of positively charged gold nanoclusters as effective antimicrobial nanoagents against multidrug-resistant bacteria and biofilms. 2020 , 569, 235-243	30
411	Size-controllable preparation and antibacterial mechanism of thermo-responsive copolymer-stabilized silver nanoparticles with high antimicrobial activity. 2020 , 110, 110735	24
410	Multi-method assessment of PVP-coated silver nanoparticles and artificial sweat mixtures. 2020 , 249, 126173	5
409	Biosynthesis of CMC-Guar gum-Ag nanocomposites for inactivation of food pathogenic microbes and its effect on the shelf life of strawberries. 2020 , 236, 116053	29
408	Silver-Laden Black Phosphorus Nanosheets for an Efficient In Vivo Antimicrobial Application. 2020 , 16, e1905938	36
407	Triple-synergistic 2D material-based dual-delivery antibiotic platform. 2020 , 12,	26
406	Nanocomposite Gel as Injectable Therapeutic Scaffold: Microstructural Aspects and Bioactive Properties. 2020 , 12, 7840-7853	3
405	Optimization of Antibacterial Properties of HybridIMetal-Sputtered Superhydrophobic Surfaces. 2020 , 10, 25	9
404	Bacteria-nanoparticle interactions in the context of nanofouling. 2020, 277, 102106	10
403	Photophysico-chemical properties and photoinactivation of Staphylococcus Aureus using zinc phthalocyanines linked silver nanoparticles conjugates. 2020 , 176, 108237	5
402	Continuous Interfacial Centrifugal Separation and Recovery of Silver Nanoparticles. 2020, 43, 582-592	8
401	Engineering and Application Perspectives on Designing an Antimicrobial Surface. 2020 , 12, 21330-21341	42

400	Fabrication of silver-decorated popcorn-like polymeric nanoparticles for enhanced antibacterial activity. 2020 , 522, 146318	3
399	A Macroporous Hydrogel Dressing with Enhanced Antibacterial and Anti-Inflammatory Capabilities for Accelerated Wound Healing. 2020 , 30, 2000644	80
398	A novel water pollution monitoring and treatment agent: Ag doped carbon nanoparticles for sensing dichromate, morphological analysis of Cr and sterilization. 2020 , 157, 104855	5
397	Antibiofilm, antimicrobial and cytotoxic activity of extracellular green-synthesized silver nanoparticles by two marine-derived actinomycete 2020 , 10, 10361-10367	37
396	Silver Ions Caused Faster Diffusive Dynamics of Histone-Like Nucleoid-Structuring Proteins in Live Bacteria. 2020 , 86,	19
395	Silver Nanoparticles Coated Poly(L-Lactide) Electrospun Membrane for Implant Associated Infections Prevention. 2020 , 11, 431	10
394	Antimicrobial Activity of Silver-Treated Bacteria against other Multi-Drug Resistant Pathogens in Their Environment. 2020 , 9,	18
393	A strawberry-like Ag-decorated barium titanate enhances piezoelectric and antibacterial activities of polymer scaffold. 2020 , 74, 104825	128
392	Antimicrobial activity of biosynthesized silver nanoparticles using Diospyros celebica Bakh. (Eboni) extra. 2020 , 457, 012041	
391	Silver Nanoparticles for the Therapy of Tuberculosis. 2020 , 15, 2231-2258	23
390	Novel dental adhesive containing silver exchanged EMT zeolites against cariogenic biofilms to combat dental caries. 2020 , 299, 110113	5
389	Mussel-Inspired Hydrogels for Self-Adhesive Bioelectronics. 2020 , 30, 1909954	127
388	Nanoparticles in plants: morphophysiological, biochemical, and molecular responses. 2020 , 289-322	6
387	Gold Nanoclusters for Bacterial Detection and Infection Therapy. 2020 , 8, 181	12
386	Synthesis of Biogenic Silver Nanoparticles (AgCl-NPs) Using a Gaertn. Aerial Part Extract and Their Application as Antibacterial, Antifungal and Antioxidant Agents. 2020 , 10,	15
385	Synthesis and antibacterial activity of silver-copper nano-composites formed by microwave assisted chemical reduction. 2021 , 41, 525-529	2
384	Silver-based nanomaterials: A critical review on factors affecting water disinfection performance and silver release. 2021 , 51, 2389-2423	8
383	Using MgO nanoparticles as a potential platform to precisely load and steadily release Ag ions for	

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382	Graphene nanoplatelets/Cr2O3 nanocomposites as novel nanoantibiotics: Towards control of multiple drug resistant bacteria. 2021 , 47, 889-898	6
381	AgNPs-incorporated nanofiber mats: Relationship between AgNPs size/content, silver release, cytotoxicity, and antibacterial activity. 2021 , 118, 111331	18
380	AgNP/Alginate Nanocomposite hydrogel for antimicrobial and antibiofilm applications. 2021, 251, 117017	27
379	Self-assembled nanogels of luminescent thiolated silver nanoclusters and chitosan as bactericidal agent and bacterial sensor. 2021 , 118, 111520	12
378	Advancements and future directions in the antibacterial wound dressings - A review. 2021 , 109, 703-716	15
377	Antibacterial and cytotoxicity activities of biosynthesized silver oxide (Ag2O) nanoparticles using Bacillus paramycoides. 2021 , 61, 102111	14
376	Biogenic Synthesis of Silver Nanoparticles with High Antimicrobial and Catalytic Activities using Sheng Di Huang (Rehmannia glutinosa). 2021 , 16, 237-246	4
375	Antibacterial and antibiofilm potential of silver nanoparticles against antibiotic-sensitive and multidrug-resistant Pseudomonas aeruginosa strains. 2021 , 52, 267-278	14
374	Toward understanding the purely geometric effects of silver nanoparticles on potential application as ocular therapeutics via treatment of bacterial keratitis. 2021 , 119, 111497	6
373	Antibacterial mechanism for inactivation of E. Coli by AgNPs@polydoamine/titania nanotubes via speciation analysis of silver ions and silver nanoparticles by cation exchange reaction. 2021 , 160, 105636	4
372	Silver nanoparticles-induced HO triggers apoptosis-like death and is associated with in. 2021 , 55, 107-118	O
371	Controlled drug delivery systems in eradicating bacterial biofilm-associated infections. 2021 , 329, 1102-1116	12
370	The in vitro evaluation of antibacterial efficacy optimized with cellular apoptosis on multi-functional polyurethane sealers for the root canal treatment. 2021 , 9, 1370-1383	3
369	Nanomaterials in antimicrobial paints and coatings to prevent biodegradation of man-made surfaces: A review. 2021 , 45, 3769-3777	4
368	Nanomaterials in Medicine. 2021 , 197-210	
367	Antimicrobial activity of hybrid organicIhorganic coreBhell magnetic nanocomposites. 2021 , 501-527	1
366	Bi2O3 nano-flakes as a cost-effective antibacterial agent. 2021 , 3, 4106-4118	4
365	Release Strategies of Silver Ions from Materials for Bacterial Killing 2021 , 4, 3985-3999	17

364	Non-Conventional Antimicrobial Agents. 2021,	O
363	OrganicIhorganic Hybrid Nanoparticles Synthesized with Hypericum perforatum Extract: Potential Agents for Photodynamic Therapy at Ultra-low Power Light. 2021 , 9, 1625-1645	2
362	Effect of Biocidal Additives on Technological Parameters in the Manufacture of Polyurethane Foams. 2021 , 12, 125-132	
361	Silver nanoparticles in poultry health: Applications and toxicokinetic effects. 2021 , 685-704	
360	A comparative study of experimental urinary catheters containing silver and zinc for biofilm inhibition. 2021 , 35, 1071-1081	2
359	Monascus pigment-mediated green synthesis of silver nanoparticles: Catalytic, antioxidant, and antibacterial activity. 2021 , 35, e6120	3
358	Nematicidal activity of silver nanomaterials against plant-parasitic nematodes. 2021, 527-548	О
357	Self-encapsulating Ag nanospheres in amorphous carbon: a novel ultrathin selective absorber for flexible solar-thermal conversion. 2021 , 9, 11300-11311	4
356	The recent progress on metal-organic frameworks for phototherapy. 2021 , 50, 5086-5125	96
355	An overview of methods for production and detection of silver nanoparticles, with emphasis on their fate and toxicological effects on human, soil, and aquatic environment. 2021 , 10, 954-977	13
354	Development of antibacterial and UV protective cotton fabrics using plant food waste and alien invasive plant extracts as reducing agents for the in-situ synthesis of silver nanoparticles. 2021 , 28, 3215-3233	23
353	Green Silver Nanoparticles: Recent Trends and Technological Developments. 2021 , 29, 2711-2737	2
352	Antimicrobial Properties of the Ag, Cu Nanoparticle System. 2021 , 10,	18
351	Bioproduction of CuO and Ag/CuO heterogeneous photocatalysis-photocatalytic dye degradation and biological activities. 2021 , 11, 1411-1425	10
350	Development and Characterization of Weft-Knitted Fabrics of Naturally Occurring Polymer Fibers for Sustainable and Functional Textiles. 2021 , 13,	7
349	Multifunctional Hydroxyapatite/Silver Nanoparticles/Cotton Gauze for Antimicrobial and Biomedical Applications. 2021 , 11,	24
348	Metal-Organic-Framework-Based Materials for Antimicrobial Applications. 2021 , 15, 3808-3848	54
347	Cetyltrimethylammonium Bromide (CTAB)-Loaded SiO-Ag Mesoporous Nanocomposite as an Efficient Antibacterial Agent. 2021 , 11,	13

(2021-2021)

346	A novel methodology to study antimicrobial properties of high-touch surfaces used for indoor hygiene applications-A study on Cu metal. 2021 , 16, e0247081	7
345	Catalytic Nanomaterials toward Atomic Levels for Biomedical Applications: From Metal Clusters to Single-Atom Catalysts. 2021 , 15, 2005-2037	37
344	Silver Nanoparticles Induce a Antibacterial Action Mechanism in Multi-Drug Resistant. 2021 , 12, 638640	11
343	Ag[Fe(CN)NO]-Fabricated Hydrophobic Cotton as a Potential Wound Healing Dressing: An Approach. 2021 , 13, 10689-10704	6
342	Recent advances in functionalized nanomaterials for the diagnosis and treatment of bacterial infections. 2021 , 121, 111843	26
341	Combined NMR and Computational Study of Cysteine Oxidation during Nucleation of Metallic Clusters in Biological Systems. 2021 , 60, 4144-4161	1
340	Green synthesized Silver Nanoparticles as Silver Lining in Antimicrobial Resistance: A Review. 2021 ,	1
339	Comparative Study Between Silver Nanoparticles Dressing (SilvrSTAT Gel) and Conventional Dressing in Diabetic Foot Ulcer Healing: A Prospective Randomized Study. 2021 , 1534734620988217	1
338	One-Pot Reducing Agent-Free Synthesis of Silver Nanoparticles/Nitrocellulose Composite Surface Coating with Antimicrobial and Antibiofilm Activities. 2021 , 2021, 6666642	5
337	Toward Designing of Anti-infective Hydrogels for Orthopedic Implants: From Lab to Clinic. 2021 , 7, 1933-1961	10
336	Preparation and properties of conductive bacterial cellulose-based graphene oxide-silver nanoparticles antibacterial dressing. 2021 , 257, 117671	20
335	Dual-effect coreBhell polyphenol coated silver nanoparticles for tissue engineering. 2021 , 26, 100716	5
334	Microstructure, anti-corrosion and biological performance of Ag, Zn Co-doped titania coating: The influence of Zn contents. 2021 , 47, 11129-11143	1
333	Economic Aspects of Nanomaterials (NMs) for Sample Preparation. 2021 , 241-249	
332	Antimicrobial nanomedicine for ocular bacterial and fungal infection. 2021 , 11, 1352-1375	10
331	Sustainable-green synthesis of silver nanoparticles using safflower (L.) waste extract and its antibacterial activity. 2021 , 7, e06923	20
330	In Situ Evaluation of Filter Media Modified by Biocidal Nanomaterials to Control Bioaerosols in Internal Environments. 2021 , 232, 176	2
329	Nanoparticle composite TPNT1 is effective against SARS-CoV-2 and influenza viruses. 2021 , 11, 8692	9

328	New Functionalized Macroparticles for Environmentally Sustainable Biofilm Control in Water Systems. 2021 , 10,	1
327	Bioinspired protein corona strategy enhanced biocompatibility of Ag-Hybrid hollow Au nanoshells for surface-enhanced Raman scattering imaging and on-demand activation tumor-phototherapy. 2021 , 271, 120734	12
326	Fabrication of aerosol-based nanoparticles and their applications in biomedical fields. 2021 , 51, 1-15	3
325	Bacterial Mediated Rapid and Facile Synthesis of Silver Nanoparticles and Their Antimicrobial Efficacy against Pathogenic Microorganisms. 2021 , 14,	7
324	Endophytic Nanotechnology: An Approach to Study Scope and Potential Applications. 2021 , 9, 613343	17
323	Silver Covalently Bound to Cyanographene Overcomes Bacterial Resistance to Silver Nanoparticles and Antibiotics. 2021 , 8, 2003090	13
322	Green nanotechnology for preserving and enriching yogurt with biologically available iron (II). 2021 , 69, 102645	25
321	A straightforward and reliable evaluation of Ag(I) binding affinity mediated by a peptide ligand for constructing an efficient sensing platform. 2021 , 226, 122089	
320	Bringing the interaction of silver nanoparticles with bacteria to light. 2021 , 2, 021304	1
319	Investigating the effect of multi-coated hydrogel layer on characteristics of electrospun PCL membrane coated with gelatin/silver nanoparticles for wound dressing application. 2021 , 109, 2414-2424	2
318	Hydrothermal synthesis of TiO2 nanorods: formation chemistry, growth mechanism, and tailoring of surface properties for photocatalytic activities. 2021 , 20, 100428	18
317	The impact of bacteria exposure on the plasmonic response of silver nanostructured surfaces. 2021 , 2, 021401	2
316	Cysteamine: A key to trigger aggregation-induced NIR-II photothermal effect and silver release booming of gold-silver nanocages for synergetic treatment of multidrug-resistant bacteria infection. 2021 , 414, 128779	7
315	Nanobiocide Based-Silver Nanomaterials Upon Coronaviruses: Approaches for Preventing Viral Infections. 2021 , 16, 100	4
314	Green synthesis of AgNPs, characterization as an effective wound healing agent in the wound care after anorectal surgery.	
313	Zeta potential beyond materials science: Applications to bacterial systems and to the development of novel antimicrobials. 2021 , 1863, 183597	8
312	The use of noble metal coatings and nanoparticles for the modification of medical implant materials. 2021 , 204, 109672	16
311	Induction of apoptosis in Trypanosoma brucei following endocytosis of ultra-small noble metal nanoclusters. <i>Nano Today</i> , 2021 , 38, 101122	1

310	Green rapid synthesis of Cu2O/Ag heterojunctions exerting synergistic antibiosis. 2021, 33, 308-308	4
309	Research progress in chemical and biological protective materials with integrated conventional decontamination-and-sensing functions. 2021 , 145, 100626	1
308	A review on advances of treatment modalities for Alzheimer's disease. 2021 , 276, 119129	11
307	Review on Green Synthesis of Silver Nanoparticles through Plants. 2021 , 21, 994-1007	7
306	Characterization of Silver Nanoparticles Encapsulated Using an Ion-Exchange-Mediated Method and Their Application as Antimicrobial Agents. 2021 , 50, 5632-5638	1
305	A Machine Learning Tool to Predict the Antibacterial Capacity of Nanoparticles. 2021 , 11,	11
304	Impact of Physico-Chemical Properties of Cellulose Nanocrystal/Silver Nanoparticle Hybrid Suspensions on Their Biocidal and Toxicological Effects. 2021 , 11,	3
303	Multifunctional ultrasmall AgNP hydrogel accelerates healing of S. aureus infected wounds. 2021 , 128, 420-434	17
302	DNA-Templated Fluorescent Silver Nanoclusters Inhibit Bacterial Growth While Being Non-Toxic to Mammalian Cells. 2021 , 26,	5
301	Silver Nanoparticles and Their Antibacterial Applications. 2021 , 22,	74
300	Silver Nanoparticles and Their Antibacterial Applications. 2021, 22, Silver nanoparticles-chitosan composites activity against resistant bacteria: tolerance and biofilm inhibition. 2021, 23, 196	3
	Silver nanoparticles-chitosan composites activity against resistant bacteria: tolerance and biofilm	
300	Silver nanoparticles-chitosan composites activity against resistant bacteria: tolerance and biofilm inhibition. 2021 , 23, 196 Silver Micro-Nanoparticle-Based Nanoarchitectures: Synthesis Routes, Biomedical Applications, and	3
300	Silver nanoparticles-chitosan composites activity against resistant bacteria: tolerance and biofilm inhibition. 2021 , 23, 196 Silver Micro-Nanoparticle-Based Nanoarchitectures: Synthesis Routes, Biomedical Applications, and Mechanisms of Action. 2021 , 13, Synthesis of silver nanoparticle-decorated hydroxyapatite nanocomposite with combined	3
300 299 298	Silver nanoparticles-chitosan composites activity against resistant bacteria: tolerance and biofilm inhibition. 2021, 23, 196 Silver Micro-Nanoparticle-Based Nanoarchitectures: Synthesis Routes, Biomedical Applications, and Mechanisms of Action. 2021, 13, Synthesis of silver nanoparticle-decorated hydroxyapatite nanocomposite with combined bioactivity and antibacterial properties. 2021, 32, 106 A Green, Simple and Facile Way to Synthesize Silver Nanoparticles Using Soluble Starch. pH Studies	3 2 11
300 299 298 297	Silver nanoparticles-chitosan composites activity against resistant bacteria: tolerance and biofilm inhibition. 2021, 23, 196 Silver Micro-Nanoparticle-Based Nanoarchitectures: Synthesis Routes, Biomedical Applications, and Mechanisms of Action. 2021, 13, Synthesis of silver nanoparticle-decorated hydroxyapatite nanocomposite with combined bioactivity and antibacterial properties. 2021, 32, 106 A Green, Simple and Facile Way to Synthesize Silver Nanoparticles Using Soluble Starch. pH Studies and Antimicrobial Applications. 2021, 14, Systematic Review on Biosynthesis of Silver Nanoparticles and Antibacterial Activities: Application	3 2 11 3
300 299 298 297 296	Silver nanoparticles-chitosan composites activity against resistant bacteria: tolerance and biofilm inhibition. 2021, 23, 196 Silver Micro-Nanoparticle-Based Nanoarchitectures: Synthesis Routes, Biomedical Applications, and Mechanisms of Action. 2021, 13, Synthesis of silver nanoparticle-decorated hydroxyapatite nanocomposite with combined bioactivity and antibacterial properties. 2021, 32, 106 A Green, Simple and Facile Way to Synthesize Silver Nanoparticles Using Soluble Starch. pH Studies and Antimicrobial Applications. 2021, 14, Systematic Review on Biosynthesis of Silver Nanoparticles and Antibacterial Activities: Application and Theoretical Perspectives. 2021, 26, Synthesis, characterization, and evaluation of antibacterial activity of transition metal oxyde	3 2 11 3 8

292	Green synthesis of sub 10 nm silver nanoparticles in gram scale using free impinging jet reactor. 2021 , 165, 108439	4
291	An overview of silver nano-particles as promising materials for water disinfection. 2021 , 23, 101721	20
2 90	Silver nanoparticles nucleated in NaOH-treated halloysite: a potential antimicrobial material. 2021 , 12, 798-807	1
289	Antimicrobial Effect of Electrospun Nanofibers Loaded with Silver Nanoparticles: Influence of Ag Incorporation Method. 2021 , 2021, 1-15	6
288	Development of poly (vinyl alcohol)/agar/maltodextrin coating containing silver nanoparticles for banana (Musa acuminate) preservation. 2021 , 29, 100740	3
287	Bioactivity and antibacterial properties of calcium- and silver-doped coatings on 3D printed titanium scaffolds. 2021 , 421, 127476	3
286	Eradication of Mature Bacterial Biofilms with Concurrent Improvement in Chronic Wound Healing Using Silver Nanoparticle Hydrogel Treatment. 2021 , 9,	8
285	Stability and Microbial Toxicity of Silver Nanoparticles under Denitrifying Conditions. 2021 , 13, 46233-46246	2
284	An in vitro study into the antimicrobial and cytotoxic effect of ActicoatIdressings supplemented with chlorhexidine. 2021 ,	0
283	Engineered Nanoparticles for Prevention against CoVID-19 Infection. 1166, 41-55	
282	Fabrication of AgNPs@Bowl-shaped structure with excellent antibacterial activity. 2021, 44, 100473	2
281	Nanoparticles derived from Rhodococcus kroppenstedtii as bioactive agents for controlling aquaculture associated bacterial pathogens. 2021 , 737538	O
280	Immobilized Ag-nanoparticles (iNPs) for environmental applications: Elucidation of immobilized silver-induced inhibition mechanism of Escherichia coli. 2021 , 9, 106001	0
279	Heterogeneous nucleation in citrate synthesis of AgNPs: Effect of mixing and solvation dynamics. 2021 , 421, 127753	3
278	Templated Mesoporous Silica Outer Shell for Controlled Silver Release of a Magnetically Recoverable and Reusable Nanocomposite for Water Disinfection. 2021 , 13, 47972-47986	0
277	Controlled synthesis of mussel-inspired Ag nanoparticle coatings with demonstrated in vitro and in vivo antibacterial properties. 2021 , 208, 109944	2
276	Synthesis of silver-nisin nanoparticles with low cytotoxicity as antimicrobials against biofilm-forming pathogens. 2021 , 206, 111965	3
275	3D flower-like Ag/Bi5O7I embedded on an acrylate fluoroboron polymer as a multifunctional assembly film for ultrastable plasmon-enhanced photocatalysis and antibiosis. 2021 , 563, 150305	3

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274	Perylenediimide/silver nanohybrids with visible-light photocatalysis enhanced antibacterial effect. 2021 , 195, 109698	O
273	Construction of silver nanoparticles anchored flower-like magnetic Fe3O4@SiO2@MnO2 hybrids with antibacterial and wound healing activity. 2021 , 567, 150797	5
272	Silver nanoparticle-protein interactions and the role of lysozyme as an antagonistic antibacterial agent. 2021 , 208, 112030	3
271	Plasmonic metallic silver induced Bi2WO6/TiO2 ternary junction towards the photocatalytic, electrochemical OER/HER, antibacterial and sensing applications. 2021 , 569, 150918	4
270	Enhanced uniformity, corrosion resistance and biological performance of Cu-incorporated TiO2 coating produced by ultrasound-auxiliary micro-arc oxidation. 2021 , 569, 150932	2
269	Evaluating green silver nanoparticles as prospective biopesticides: An environmental standpoint. 2022 , 286, 131761	12
268	Nanoparticle in composite material. 2021 , 71-82	
267	Silver Nanoparticles as a Fungicide against Soil-Borne Sclerotium rolfsii: A Case Study for Wheat Plants. 2021 , 513-542	O
266	Direct printing of functional 3D objects using polymerization-induced phase separation. 2021 , 12, 55	19
265	Silver nanoparticles (AgNPs) internalization and passage through the Lactuca sativa (Asteraceae) outer cell wall. 2021 , 48, 1113-1123	2
264	Charge-reversal silver clusters for targeted bacterial killing. 2021 , 9, 4006-4014	3
263	Interaction of Nanomaterials with Biological Systems. 2021 , 375-409	1
262	Applications of Polymer Silver Nanocomposites. 2021 , 191-212	1
261	pH-Triggered nanoreactors as oxidative stress amplifiers for combating multidrug-resistant biofilms. 2021 , 57, 4662-4665	2
260	Highly efficient nanomedicine from cationic antimicrobial peptide-protected Ag nanoclusters. 2021 , 9, 307-313	6
259	Bifunctional Regenerated Cellulose/Polyaniline/Nanosilver Fibers as a Catalyst/Bactericide for Water Decontamination. 2021 , 13, 4410-4418	7
258	Green synthesis of silver@carbon dots nanocomposites for enhancing the antimicrobial activity. 2021 ,	O
257	Advances in Antimicrobial and Osteoinductive Biomaterials. 2020 , 3-34	2

256	Engineering Approaches to Create Antibacterial Surfaces on Biomedical Implants and Devices. 2020 , 313-340	2
255	Inorganic Particles for Delivering Natural Products. 2020 , 205-241	2
254	Therapeutic Applications of Graphene Oxides in Angiogenesis and Cancers. 2020 , 147-189	4
253	Antimycobacterial, Anticancer, Antioxidant and Photocatalytic Activity of Biosynthesized Silver Nanoparticles Using Berberis Integerrima. 1	7
252	Click-Grafting of Cardanol onto Mesoporous Silica/Silver Janus Particles for Enhanced Hemostatic and Antibacterial Performance 2020 , 3, 9054-9064	6
251	Antimicrobial and anti-biofilm activities of Bi subnitrate and BiNPs produced by sp. SFG against clinical isolates of , , and. 2019 , 13, 377-381	7
250	Shape-controlled silver NPs for shape-dependent biological activities. 2017 , 12, 647-651	8
249	Edible mushroom (Flammulina velutipes) as biosource for silver nanoparticles: from synthesis to diverse biomedical and environmental applications. 2021 , 32, 065101	21
248	Acid hydrogel matrixes as reducing/stabilizing agent for the in-situ synthesis of Ag-nanocomposites by UV irradiation: pH effect. 2019 , 6, 055021	7
247	Bacterial plasma membrane is the main cellular target of silver nanoparticles in Escherichia coli and Pseudomonas aeruginosa.	4
246	On the anti-cancer activities of silver nanoparticles. 2018 , 5,	11
245	Synergistic ROS-Associated Antimicrobial Activity of Silver Nanoparticles and Gentamicin Against. 2020 , 15, 3551-3562	18
244	Size-Dependent Bioactivity of Silver Nanoparticles: Antibacterial Properties, Influence on Copper Status in Mice, and Whole-Body Turnover. 2020 , 13, 137-157	11
243	Melt-Spun Fibers for Textile Applications. 2020 , 13,	44
242	Antimicrobial Potential of Food Lactic Acid Bacteria: Bioactive Peptide Decrypting from Caseins and Bacteriocin Production. 2020 , 9,	10
241	Microfiltration Membranes Modified with Composition of Titanium Oxide and Silver Oxide by Magnetron Sputtering. 2020 , 13,	5
240	Contributions of photochemistry to bio-based antibacterial polymer materials. 2021, 9, 9624-9641	0
239	CNC/AgNP hybrids as safer-by-design biocides in paints.	1

238	Sex affects the response of Wistar rats to polyvinyl pyrrolidone (PVP)-coated silver nanoparticles in an oral 28 days repeated dose toxicity study. 2021 , 18, 38	1
237	Cluster Materials as Traceable Antibacterial Agents.	8
236	Antibacterial and Antifungal Properties of Silver Nanoparticles-Effect of a Surface-Stabilizing Agent. 2021 , 11,	3
235	Green Synthesis of Ag NP-Decorated Poly(dopamine) Microcapsules for Antibacterial Applications. 2021 , 6, 10054-10058	1
234	Removal Performance of Faecal Indicators by Natural and Silver-Modified Zeolites of Various Particle Sizes under Dynamic Batch Experiments: Preliminary Results. 2021 , 13, 2938	O
233	Sustainable nanotechnology based wastewater treatment strategies: achievements, challenges and future perspectives. 2021 , 132606	3
232	Synthesis and photocatalysis of novel Z-scheme CeO2/Ag-AgVO3 heterojunction nanofibers and their efficient antibacterial properties. 2021 , 9, 106498	0
231	Optical Properties of Semiconductor Nanocrystals into the Glass and Colloidal Environments for New Technological Applications. 2017 , 155-175	
230	Photochemically synthesized heparin-based silver nanoparticles: an antimicrobial activity study. 2017 ,	О
229	Biomolecule Silver Nanoparticle-Based Materials for Biomedical Applications. 2018, 1-17	
228	14: Combining Inorganic Antibacterial Nanophases and Essential Oils. 2017, 279-294	
227	Biomolecule Silver Nanoparticle-Based Materials for Biomedical Applications. 2019 , 3485-3501	
226	Synthesis and Characterization Studies of Ag-Nps for Endodontics. 2019, 541-547	
225	Methods and Mechanisms Involved in Antimicrobially Useful Nanoparticles with Agricultural Promises. 2019 , 207-231	
224	Faster diffusive dynamics of histone-like nucleoid structuring proteins in live bacteria caused by silver ions.	1
223	Nanotechnology for Filtration-Based Point-of-Use Water Treatment. 2020 , 1603-1625	
222	Tri-functional SERS nanoplatform with tunable plasmonic property for synergistic antibacterial activity and antibacterial process monitoring. 2021 ,	1
221	Green Synthesis of Silver Nanoparticles from Ananas comosus Core Extract and Their Antibacterial Activity. 2020 , 455-463	

220	Effect of particle morphology on performance of an electrostatic air-liquid interface cell exposure system for nanotoxicology studies. 2021 , 15, 433-445	0
219	Silver-phosphate glass matrix for iodine conditioning: From sorbent design to vitrification. 2022 , 558, 153352	1
218	Chemical and green production of silver nanocomposites. 2022 , 55-74	
217	Synthesis of silver nanoparticles from mushroom: Safety and applications. 2022 , 413-437	O
216	Biogenic synthesis of silver nanoparticles using lichens. 2022 , 513-523	
215	Bio-nanotechnology Application in Wastewater Treatment. 2020 , 33-58	
214	Effectiveness of silver nanoparticles synthesized using Diospyros discolor Willd. (Bisbul) leaf extract for antimicrobial agents. 2020 ,	
213	Novel fungi for green synthesis of nanoparticles and their efficacy against plant disease management. 2020 , 115-121	
212	Accumulation and Effect of Silver Nanoparticles Functionalized with on Rats. 2021, 11,	3
211	The membrane depolarization and increase intracellular calcium level produced by silver nanoclusters are responsible for bacterial death. 2021 , 11, 21557	1
210	Infection Micromilieu-Activated Nanocatalytic Membrane for Orchestrating Rapid Sterilization and Stalled Chronic Wound Regeneration. 2109469	6
209	Biomaterial-mediated modulation of oral microbiota synergizes with PD-1 blockade in mice with oral squamous cell carcinoma. 2021 ,	11
208	Nanotechnology for Filtration-Based Point-of-Use Water Treatment. 27-49	
207	Silver nanoparticles induce a triclosan-like antibacterial action mechanism in multi-drug resistant Klebsiella pneumoniae.	O
206	Characterization of Gelatin and PVA Nanofibers Fabricated Using Electrospinning Process. 2021, 216-222	
205	Synergistic effects of hybrid (HA+Ag) particles and friction stir processing in the design of a high-strength magnesium matrix bio-nano composite with an appropriate texture for biomedical applications. 2022 , 125, 104983	1
204	Long-term, synergistic and high-efficient antibacterial polyacrylonitrile nanofibrous membrane prepared by "one-pot" electrospinning process. 2021 , 609, 718-718	1
203	Ag-Coupled Polymeric Nanohybrids with Synergistic Photodynamic and Photothermal Activities for Advanced Antibacterial Therapy.	

202	Antibacterial and Anti-Inflammatory Coating Materials for Orthopedic Implants: A Review. 2021 , 11, 1401	2
201	Facile Preparation of Raspberry-like Mesoporous Poly(styrene-co-divinylbenzene)/Ag Composite Particles for Antibacterial Superhydrophobic Surfaces and Liquid Marbles. 2021 , 635, 128014	2
200	Graphitic Carbon Nitride as a Platform for the Synthesis of Silver Nanoclusters. 2021, 16, 166	Ο
199	All-green wound dressing prototype based on Nile tilapia skin impregnated with silver nanoparticles reduced by essential oil. 2022 , 12, 129	
198	Bioengineering applications of black phosphorus and their toxicity assessment. 2021 , 8, 3452-3477	6
197	Biosynthesis and characterization of Saudi propolis-mediated silver nanoparticles and their biological properties. 2021 , 19, 753-757	0
196	Ultrasmall Ag clusters in situ encapsulated into Silicalite-1 zeolite with controlled release behavior and enhanced antibacterial activity. 2022 , 330, 111617	1
195	Chitosan-Hydroxyapatite Composite Scaffolds for the Controlled Release of Therapeutic Metals Ions. 2022 , 255-280	
194	Antimicrobial and Antibiofilm Activity of Biosynthesized Silver Nanoparticles Against Beta-lactamase-Resistant Enterococcus faecalis 2022 , 1	
193	Biomaterials assisted reconstructive urology: The pursuit of an implantable bioengineered neo-urinary bladder 2021 , 281, 121331	2
192	Antibacterial, antibiofilm, anti-inflammatory, and wound healing effects of nanoscale multifunctional cationic alternating copolymers 2021 , 119, 105550	3
191	Effects of solvents on electrospun fibers and the biological application of different hydrophilic electrospun mats. 2022 , 30, 103093	1
190	Photocatalytic TiO2 nanomaterials as potential antimicrobial and antiviral agents: Scope against blocking the SARS-COV-2 spread. 2022 , 14, 100100	8
189	Synthesis, characterization and antibacterial activity of AgNPS mediated by Ocimum sanctum. 2021 , 20, 210-215	
188	Does Silver in Different Forms Affect Bacterial Susceptibility and Resistance? A Mechanistic Perspective 2022 ,	0
187	Preparation and antibacterial properties of an AgBr@SiO/GelMA composite hydrogel 2022,	2
186	Silver nanoparticles modified by water-soluble leaning tower[6]arenes for sensing and catalysis 2021 ,	1
185	Silver-titanium polymeric nanocomposite non ecotoxic with bactericide activity 2022 , 1-20	0

184	Effect of Nano-Silver on Formation of Marine Snow and the Underlying Microbial Mechanism 2022,	1
183	Photochemical Synthesis of Silver Hydrosol Stabilized by Carbonate Ions and Study of Its Bactericidal Impact on: Direct and Indirect Effects 2022 , 23,	O
182	Silver-Containing Thin Films on Transparent Polymer Foils for Antimicrobial Applications. 2022, 12, 170	3
181	Biosynthesis and applications of iron oxide nanocomposites synthesized by recombinant Escherichia coli 2022 , 106, 1127	1
180	Green synthesis of silver nanoparticles using green tea leaf extract, characterization and evaluation of antimicrobial activity. 2022 , 4, 911-915	5
179	Advanced metal and carbon nanostructures for medical, drug delivery and bio-imaging applications 2022 ,	3
178	Antibacterial Electroconductive Composite Coating of Cotton Fabric 2022, 15,	1
177	Review on metal nanoparticles as nanocarriers: current challenges and perspectives in drug delivery systems 2022 , 1-23	18
176	Lipoic Acid-Coated Silver Nanoparticles: Biosafety Potential on the Vascular Microenvironment and Antibacterial Properties 2021 , 12, 733743	1
175	Silver Nanoparticles as Chlorhexidine and Metronidazole Drug Delivery Platforms: Their Potential Use in Treating Periodontitis 2022 , 17, 495-517	O
174	Plasmonic Enhancement Strategies for Light-Driven Microbe Inactivation. 2022 , 126, 2325-2335	0
173	Surface characterisation and silver release from Ti-6Al-4V and anodic TiO2 after surface modification by ion implantation. 2022 , 433, 128115	1
172	Plant Extract-Synthesized Silver Nanoparticles for Application in Dental Therapy 2022, 14,	6
171	Trichogenic Silver-Based Nanoparticles for Suppression of Fungi Involved in Damping-Off of Cotton Seedlings 2022 , 10,	3
170	How the Physicochemical Properties of Manufactured Nanomaterials Affect Their Performance in Dispersion and Their Applications in Biomedicine: A Review 2022 , 12,	2
169	Composite materials: Concept, recent advancements, and applications. 2022 , 1-43	
168	Nanotechnology in microbial food safety. 2022 , 253-304	
167	Antibacterial nanomaterials: Upcoming hope to overcome antibiotic resistance crisis. 2022 , 11, 1115-1142	3

166	Effect of silver nanoparticles on nitrogen-cycling bacteria in constructed wetlands. 1	1
165	Nanomaterial-Based Therapy for Wound Healing 2022 , 12,	6
164	"Attacking-Attacking" Anti-biofouling Strategy Enabled by Cellulose Nanocrystals-Silver Materials 2022 ,	3
163	Light Triggered Enhancement of Antibiotic Efficacy in Biofilm Elimination Mediated by Gold-Silver Alloy Nanoparticles 2022 , 13, 841124	0
162	Leachability and Anti-Mold Efficiency of Nanosilver on Poplar Wood Surface 2022, 14,	1
161	Natural Nanoclay-Based Silver-Phosphomolybdic Acid Composite with a Dual Antimicrobial Effect 2022 , 7, 6728-6736	O
160	Synthesis of Metal-Loaded Carboxylated Biopolymers with Antibacterial Activity through Metal Subnanoparticle Incorporation 2022 , 11,	
159	Synthesis and Characterization of Size- and Charge-Tunable Silver Nanoparticles for Selective Anticancer and Antibacterial Treatment 2022 ,	4
158	Benefit of Silver and Gold Nanoparticles in Wound Healing Process after Endometrial Cancer Protocol 2022 , 10,	3
157	Bacterial biofilm eradication and combating strategies. 22-36	
156	Corrosion processes of silver nanoparticles. 1	2
155	Bacterial Cellulose and Its Applications 2022 , 14,	7
151	In-Gel Assay to Evaluate Antioxidant Enzyme Response to Silver Nitrate and Silver Nanoparticles in	
154	Marine Bivalve Tissues. 2022 , 12, 2760	O
153	·	2
	Marine Bivalve Tissues. 2022 , 12, 2760 Ecofriendly phytofabrication of silver nanoparticles using aqueous extract of Cuphea carthagenensis and their antioxidant potential and antibacterial activity against clinically important	
153	Marine Bivalve Tissues. 2022, 12, 2760 Ecofriendly phytofabrication of silver nanoparticles using aqueous extract of Cuphea carthagenensis and their antioxidant potential and antibacterial activity against clinically important human pathogens 2022, 134497 An Eco-friendly Fabrication of Silver Chloride Nanoparticles (AgClNPs) using Onopordum acanthium	
153 152	Marine Bivalve Tissues. 2022, 12, 2760 Ecofriendly phytofabrication of silver nanoparticles using aqueous extract of Cuphea carthagenensis and their antioxidant potential and antibacterial activity against clinically important human pathogens 2022, 134497 An Eco-friendly Fabrication of Silver Chloride Nanoparticles (AgClNPs) using Onopordum acanthium L. extract Induces Apoptosis in Breast Cancer MDA-MB-232 Cells. 1	2

148	Poly-quercetin-based nanoVelcro as a multifunctional wound dressing for effective treatment of chronic wound infections. 2022 , 437, 135315	2
147	Alloyed nanostructures integrated metal-phenolic nanoplatform for synergistic wound disinfection and revascularization 2022 , 16, 95-106	2
146	Facile Synthesis of Zn 2+ -Based Hybrid Nanoparticles as a New Paradigm for the Treatment of Internal Bacterial Infections. 2109011	2
145	Chemical and sweet basil leaf mediated synthesis of cerium oxide (CeO2) nanoparticles: Antibacterial action toward human pathogens. 2022 , 197, 237-243	O
144	Uncovering the Phytochemical Basis and the Mechanism of Plant Extract-Mediated Eco-Friendly Synthesis of Silver Nanoparticles Using Ultra-Performance Liquid Chromatography Coupled with a Photodiode Array and High-Resolution Mass Spectrometry. 2022 , 10, 562-571	7
143	Polycationic Silver Nanoclusters Comprising Nanoreservoirs of Ag Ions with High Antimicrobial and Antibiofilm Activity 2021 ,	3
142	Protein interaction with SiO2 and AgNPs: from adsorption on solid surfaces to organization and conformational changes. 2021 ,	
141	Antimicrobial Properties of Silver and Gold Nanomaterials. 2022,	
140	Medicinal plants mediated the green synthesis of silver nanoparticles and their biomedical applications 2022 ,	7
139	Multidrug resistance from a one health perspective in Ethiopia: A systematic review and meta-analysis of literature (2015\(\textbf{D}\) 020). 2022 , 100390	O
138	Self-defense mechanisms of microorganisms from the antimicrobial effect of silver nanoparticles: Highlight the role of extracellular polymeric substances 2022 , 218, 118452	О
137	Image_1.jpeg. 2020 ,	
136	Presentation_1.pdf. 2018 ,	
135	Data_Sheet_1.PDF. 2019 ,	
134	Nanobiotechnology of endophytes. 2022 , 105-128	
133	Novel functionalized selenium nanowires as antibiotic adjuvants in multiple ways to overcome drug resistance of multidrug-resistant bacteria. 2022 , 212815	1
132	Repeated Exposure of Macrophages to Synthetic Amorphous Silica Induces Adaptive Proteome Changes and a Moderate Cell Activation 2022 , 12,	О
131	Silver nanoparticles anchored magnetic self-assembled carboxymethyl cellulose-Epolylysine hybrids with synergetic antibacterial activity for wound infection therapy 2022 ,	2

130	Single-Particle Electrochemical Imaging Provides Insights into Silver Nanoparticle Dissolution at the Solution-Solid Interface 2022 ,	0
129	Synthesis, Characterization, and Antibacterial Activity of AglīiO 2 le Composite Thin Films. 2200036	
128	Trends in Sustainable Green Synthesis of Silver Nanoparticles Using Agri-Food Waste Extracts and Their Applications in Health. 2022 , 2022, 1-37	1
127	The Co3O4 nanosheet hybridized with silver nanoparticles affords long-acting synergetic antimicrobial and catalytic degradation activity. 2022 , 165284	O
126	Ag-incorporated biodegradable Mg alloys. 2022 , 23, 101445	O
125	Light activation of gold nanorods but not gold nanospheres enhance antibacterial effect through photodynamic and photothermal mechanisms 2022 , 231, 112450	O
124	An overview of nanomaterial-based novel disinfection technologies for harmful microorganisms: Mechanism, synthesis, devices and application 2022 , 837, 155720	2
123	Recent Research on Hybrid Hydrogels for Infection Treatment and Bone Repair. 2022, 8, 306	O
122	Self-redox reaction driven in situ formation of CuO/TiCT nanosheets boost the photocatalytic eradication of multi-drug resistant bacteria from infected wound 2022 , 20, 235	2
121	Effects of Particle Size and Surface Charge on Mutagenicity and Chicken Embryonic Toxicity of New Silver Nanoclusters.	
120	One-step modification method of a superhydrophobic surface for excellent antibacterial capability.	
119	Biomedical applications of novel green AgNPs synthesized from endophytic bacteria Cronobacter sakazakii. 1-11	О
118	Controlling size and stabilization of silver nanoparticles for use in optimized chitosan-dialdehyde xylan wound dressings.	
117	Atmospheric Corrosion of Silver and Silver Nanoparticles. 2022 , 3, 221-234	O
116	Co-Delivery of Nano-Silver and Vancomycin via Silica Nanopollens for Enhanced Antibacterial Functions. 2022 , 11, 685	O
115	When Function is Biological: Discerning How Silver Nanoparticle Structure Dictates Antimicrobial Activity. 2022 , 104475	O
114	Preparation and optimization of antibacterial activity of graphene oxide silver nanocomposite. 2022 ,	
113	A universal green coating strategy on textiles for simultaneous color and thermal management.	О

112	Synthesis of silver nanoparticles from Indian red yeast rice and its inhibition of biofilm in copper metal in cooling water environment.	1
111	Antimicrobial activity of silver composites in the presence of chloride ions in aqueous media.	
110	Eco-Friendly Green Biosynthesis of Silver Nanoparticles (Or-AgNPs) Using Orange Peel (<i>Citrus sinensis</i>) Waste and Evaluation of their Antibacterial and Cytotoxic Activities. 36, 57-68	
109	Biological activities of chitosan-salicylaldehyde schiff base assisted silver nanoparticles. 2022 , 34, 102177	1
108	Grafting of silver nanospheres and nanoplates onto plasma activated PET: Effect of nanoparticle shape on antibacterial activity. 2022 , 203, 111268	О
107	3D hierarchical Cu-MOF nanosheets-based antibacterial mesh. 2022 , 446, 137381	O
106	Fusion Peptide-Engineered Polyetheretherketone Implants with Photo-Assisted Anti-Pathogen and Enhanced Angiogenesis for in vivo Osseointegrative Fixation. 2022 , 446, 137453	2
105	Biomimetic and Antibacterial Composite for Orthopedic Implants. 2022 , 11, 120-145	
104	Clove (Syzygium aromaticum)-mediated metallic nanoparticles: Synthesis, characterization, and possible pharmacological and industrial applications. 2022 , 639-661	1
103	Ab initio modeling of H2S dissociative chemisorption on Ag(100).	
102	Effect of Biosynthesized Silver Nanoparticles on Bacterial Biofilm Changes in S. aureus and E. coli. 2022 , 12, 2183	1
101	Surface-Oxidized Polymer-Stabilized Silver Nanoparticles as a Covering Component of Suture Materials. 2022 , 13, 1105	3
100	Applications of Nanosensors as Pathogen Detectors in Packaged Food. 2022 , 291-312	
99	Recent developments in the use of gold and silver nanoparticles in biomedicine.	4
98	EGCG-coated silver nanoparticles self-assemble with selenium nanowires for treatment of drug-resistant bacterial infections by generating ROS and disrupting biofilms.	1
97	Leveraging the potential of silver nanoparticles-based materials towards sustainable water treatment. 2022 , 319, 115675	3
96	Characterization and Assessment of 2, 4-Diacetylphloroglucinol (DAPG)-Producing Pseudomonas fluorescens VSMKU3054 for the Management of Tomato Bacterial Wilt Caused by Ralstonia solanacearum. 2022 , 10, 1508	1
95	Shape-dependent biological activity of spherical and quasi-spherical silver nanoparticles in E. coli, A549 cells and mice.	1

94	Advanced Respiratory Models for Hazard Assessment of Nanomaterials Performance of Mono-, Co- and Tricultures. 2022 , 12, 2609	1
93	Smart Nanotextiles for Fashion and Aesthetics. 2022 , 249-263	
92	Enhanced silver nanoparticle-induced pulmonary inflammation in a metabolic syndrome mouse model and resolvin D1 treatment. 2022 , 19,	1
91	Influence of Ca species on the surface properties of TiO2 nanoparticles and its possible transformation. 2022 , 45,	
90	Bioreduction and Stabilization of Nanosilver using Chrysanthemum Phytochemicals for Antibacterial and Wastewater Treatment. 2022 , 7,	O
89	Nano-Ag Particles Embedded in C-Matrix: Preparation, Properties and Application in Cell Metabolism. 2022 , 15, 5826	
88	Functionalized Self-Assembled Monolayers: Versatile Strategies to Combat Bacterial Biofilm Formation. 2022 , 14, 1613	О
87	Purifying water with silver nanoparticles (AgNPs)-incorporated membranes: Recent advancements and critical challenges. 2022 , 222, 118901	2
86	Enzyme-Responsive COF-Based Thiol-Targeting Nanoinhibitor for Curing Bacterial Infections.	1
85	Endogenous oxygen-evolving bio-catalytic fabrics with fortified photonic disinfection for invasive bacteria-caused refractory cutaneous regeneration. 2022 , 46, 101595	1
84	Polypyrrole-based copper oxide-nickel oxide nanocomposites in wastewater treatment, bacterial control and agricultural usage. 2022 , 2, 100016	0
83	Selective detection of tartaric acid using amino acid interlinked silver nanoparticles as a colorimetric probe. 2022 , 14, 3323-3334	O
82	Cereal Grain Tea Beverages and Their Potential Health Properties. 2022, 289-333	0
81	Synthesis and potential applications of cyclodextrin-based metal@rganic frameworks: a review.	O
80	2D Ag Ion-Loaded Anionic Nanosheets for Polymer-Based Film with Durable Antibacterial Activities. 2022 , 7, 33858-33865	0
79	Green Synthesis of Endolichenic Fungi Functionalized Silver Nanoparticles: The Role in Antimicrobial, Anti-Cancer, and Mosquitocidal Activities. 2022 , 23, 10626	O
78	Polyhydroxy Fullerenes Enhance Antibacterial and Electrocatalytic Activity of Silver Nanoparticles. 2022 , 12, 3321	О
77	Efficient visible-light-photocatalytic sterilization by novel Z-scheme MXene/TiO2/Bi2S3. 2022 , 108654	O

76	Dual pulsed laser deposition of Ag nanoparticles on calcium phosphate coatings for biomedical applications.	1
75	Sustainable conversion of saturated adsorbents (SAs) from wastewater into value-added products: future prospects and challenges with toxic per- and poly-fluoroalkyl substances (PFAS).	O
74	Controllable deposition of Ag nanoparticles on various substrates via interfacial polyphenol reduction strategy for antibacterial application. 2022 , 655, 130287	O
73	Surface properties-dependent antifungal activity of silver nanoparticles. 2022 , 12,	1
72	Effectiveness of Snail Slime in the Green Synthesis of Silver Nanoparticles. 2022, 12, 3447	O
71	Bacterial Cellulose-Based Polymer Nanocomposites: A Review. 2022 , 14, 4670	O
70	Fighting multidrug-resistant Enterococcus faecalis via interfering with virulence factors using green synthesized nanoparticles. 2022 , 173, 105842	O
69	Promoting osteoblast proliferation and differentiation on functionalized and laser treated titanium substrate using hydroxyapatite/Ericalcium phosphate/silver nanoparticles. 2023 , 293, 126885	1
68	Influence of silver ion release on the inactivation of antibiotic resistant bacteria using light-activated silver nanoparticles.	1
67	Photothermal Hydrogels for Promoting Infected Wound Healing. 2200378	О
66	Design and Manufacturing of Antibacterial Electrospun Polysulfone Membranes Functionalized by Ag Nanocoating via Magnetron Sputtering. 2022 , 12, 3962	О
65	Bacteria-Activated Dual pH- and Temperature-Responsive Hydrogel for Targeted Elimination of Infection and Improved Wound Healing.	О
64	Influence of cation (imidazolium based ionic liquids) as Emart Istabilizers for silver nanoparticles and their evaluation as antibacterial activity on Escherichia coli, Staphylococcus aureus and Enterobacter cloacae. 2023 , 369, 120935	2
63	Antibacterial hydrogel with pH-responsive microcarriers of slow-release VEGF for bacterial infected wounds repair. 2023 , 144, 198-212	О
62	Growth suppression of bacteria by biofilm deterioration using silver nanoparticles with magnetic doping. 2022 , 14, 18143-18156	О
61	In Vitro Influence of ZnO, CrZnO, RuZnO, and BaZnO Nanomaterials on Bacterial Growth. 2022 , 27, 8309	О
60	Nanostructured Assembly of Magnetic and Plasmonic Nanoparticles Transferred from AOT Winsor Phases to Oil-in-Water Functional Dispersions.	О
59	Green Synthesis, Characterization and In Vitro Antimicrobial Activity of Silver Nanoparticles (AgNPs) Using Fungal Aqueous Extract.	O

58	Nano-inspired smart medicines targeting brain cancer: diagnosis and treatment.	0
57	The Role of Inorganic Fillers in Electrostatic Discharge Composites. 2022 , 10, 222	О
56	Green Synthesis of Silver Nanoparticles Using Randia aculeata L. Cell Culture Extracts, Characterization, and Evaluation of Antibacterial and Antiproliferative Activity. 2022 , 12, 4184	2
55	Silver Nanoparticle Synthesis via Photochemical Reduction with Sodium Citrate. 2023 , 24, 255	О
54	Selenium Silk Nanostructured Films for Antifungal and Antibacterial Treatments.	O
53	Design, Structural Characteristic and Antibacterial Performance of Silver-Containing Cotton Fiber Nanocomposite. 2022 , 9, 770	О
52	Solar photocatalytic pathogenic disinfection: Fundamentals to state-of-the-art. 2022,	0
51	Impact of low-levels of silver, zinc and copper nanoparticles on bacterial removal and potential synergy in water treatment applications.	О
50	Management of Potato Brown Rot Disease by Chemically and Eco-Friendly Produced CuO-NPs, MgO-NPs.	0
49	Simple and Tailorable Synthesis of Silver Nanoplates in Gram Quantities. 2023, 8, 2760-2772	О
48	Nature-inspired biogenic synthesis of silver nanoparticles for antibacterial applications. 2023, 27, 101339	1
47	Multilayer graphene oxide-silver nanoparticle for stable, highly sensitive, and reusable SERS platforms.	О
46	Green Synthesis of Anti-bacterial Nano Silver by Polysaccharide from Bletilla Striata. 2023 , 11, 40	1
45	Antibacterial one-step self-etching dental adhesive with silver nanoparticles synthesized in situ. 2023 , 129, 104411	O
44	Inorganic carbon utilization: A target of silver nanoparticle toxicity on a submerged macrophyte. 2023 , 318, 120906	0
43	Sustainable Eyclodextrin frameworks containing ultra-fine silver nanoparticles with enhanced antimicrobial efficacy. 2023 , 304, 120516	O
42	Extracellular biosynthesis, OVAT/statistical optimization, and characterization of silver nanoparticles (AgNPs) using Leclercia adecarboxylata THHM and its antimicrobial activity. 2022 , 21,	1
41	Toxic risk assessment of engineered nanoparticles used in ink formulations. 2023 , 159-194	O

40	Antibacterial properties of silver nanoparticles synthesized in ionic liquids. 2023, 465-476	О
39	Gold and silver nanoparticles: Properties and toxicity. 2023 , 59-82	О
38	Photocatalytic degradation and bacterial disinfection applications of graphitic carbon nitride. 2023, 157-206	0
37	Different Sensitivity of Advanced Bronchial and Alveolar Mono- and Coculture Models for Hazard Assessment of Nanomaterials. 2023 , 13, 407	O
36	Novel Biocompatible Green Silver Nanoparticles Efficiently Eliminates Multidrug Resistant Nosocomial Pathogens and Mycobacterium Species.	O
35	Preparation of porous amidoximated nanofibers with antibacterial properties, and experiments on uranium extraction from seawater. 2023 , 332, 669-682	O
34	Distribution of Silver (Ag) and Silver Nanoparticles (AgNPs) in Aquatic Environment. 2023, 15, 1349	0
33	Insight into the Effect of Stabilizers on Anticancer and Antibacterial Activity of AgBiS2 Nanomaterial.	O
32	Bactericidal potential of different size sericin-capped silver nanoparticles synthesized by heat, light, and sonication.	1
31	Sustainable sepiolite-based composites for fast clotting and wound healing. 2023 , 149, 213402	O
30	Ecofriendly fabrication of silver nanoparticles using quince petal extract and its antibacterial properties against fire blight disease. 2023 , 4, 100026	O
29	Polydopamine/graphene oxide coatings loaded with tetracycline and green Ag nanoparticles for effective prevention of biofilms. 2023 , 626, 157221	O
28	Green Synthesis of Silver Nanoparticles using Marine Sea Weed Acetabularia acetabulum and their Activity as MMT-Ag Nanocomposites towards Antifouling Applications. 2022 , 5397-5404	1
27	Improved antibacterial activity of 3D wrinkled graphene oxide films implemented with irreversibly shrinkable shape-memory polymer substrates. 2023 , 10, 732-746	O
26	Alginate Ag/AgCl Nanoparticles Composite Films for Wound Dressings with Antibiofilm and Antimicrobial Activities. 2023 , 14, 84	O
25	Constructing Acrylate Copolymer Microspheres with Anisotropic Wrinkled Surface for Conjugating Antibacterial AgNPs. 2023 , 8,	O
24	Biomedical application of anodic nanomaterials. 2023 , 395-441	О
23	Photoinduced CeMoS2/WO3 nanocomposites with enhanced photodynamic and enzyme-like activity for rapid sterilization. 2023 , 49, 17424-17436	O

22	Synthesis and Spectral Characterisation of Fabricated Cerium-Doped Magnesium Oxide Nanoparticles: Evaluation of the Antimicrobial Potential and Its Membranolytic Activity through Large Unilamellar Vesicles. 2023 , 14, 112	О
21	Nanotechnological advancements in the brain tumor therapy: a novel approach. 2022 , 13, 531-557	O
20	Selenium Silk Nanostructured Films with Antifungal and Antibacterial Activity. 2023, 15, 10452-10463	O
19	Hybrid microneedle arrays for antibiotic and near-IR photothermal synergistic antimicrobial effect against Methicillin-Resistant Staphylococcus aureus. 2023 , 462, 142127	O
18	Yeast cell templated porous hollow silica spheres for rapid hemostasis accompanied by antibacterial action.	0
17	Nanoparticle Approach to Control AMR. 2023 , 1-22	O
16	Functionalization of 3D Printed Scaffolds Using Polydopamine and Silver Nanoparticles for Bone-Interfacing Applications. 2023 , 6, 1161-1172	0
15	Metal-Based Nanoparticles and Their Relevant Consequences on Cytotoxicity Cascade and Induced Oxidative Stress. 2023 , 12, 703	O
14	Biosynthesized AglīnO nanohybrids exhibit strong antibacterial activity by inducing oxidative stress. 2023 ,	0
13	Gamma-rays synthesis, characterization, electrical conductivity, and antimicrobial activity of polyvinylpyrrolidone/chitosan/silver nanoparticles composite films. 2022 , 61, 888-908	O
12	Synthesis of biologically derived poly(pyrogallol) nanofibers for antibacterial applications. 2023, 11, 3356-	3363 0
11	Can Ag+ Permeate through a Potassium Ion Channel? A Bottom-Up Approach by Infrared Spectroscopy of the Ag+ Complex with the Partial Peptide of a Selectivity Filter. 2023 , 14, 2886-2890	O
10	Green Synthesized Silver Nanoparticles Using Argyreia Nervosa Leaf Extract and Their Antimicrobial Activity.	0
9	Vaginal Drug Delivery Systems to Control Microbe-Associated Infections.	O
8	Silver Nanoparticles (AgNPs) as Effective Disinfectants with Natural Source: a New Inspiration. 2023 , 1148, 012002	O
7	Inorganic nanosystems for imaging diagnostics. 2023 , 549-588	O
6	Green Synthesis of Silver Nanoparticles Using Argyreia nervosa Leaf Extract and Their Antimicrobial Activity.	O
5	Development and Evaluation of Silver Nanomix as a Next-Generation Tool for Wound Healing and Dressing Applications.	O

In Vitro Antibacterial Activity of Silver Nanoparticles Conjugated with Amikacin and Combined with Hyperthermia against Drug-Resistant and Biofilm-Producing Strains.

Antimicrobial and anti-biofilm activity of silver nanoparticles biosynthesized with Cystoseira algae extracts.

Application of infrared waves in cancer therapy. 2023, 151-237

Effect of Different Ratios of Mentha spicata Aqueous Solution Based on a Biosolvent on the Synthesis of AgNPs for Inhibiting Bacteria. 2023, 2023, 1-10