

Alina Maria Holban

List of Publications by Year in descending order

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127
papers

3,829
citations

147801

31
h-index

155660

55
g-index

153
all docs

153
docs citations

153
times ranked

4976
citing authors

#	ARTICLE	IF	CITATIONS
1	Aspects of Gut Microbiota and Immune System Interactions in Infectious Diseases, Immunopathology, and Cancer. <i>Frontiers in Immunology</i> , 2018, 9, 1830.	4.8	371
2	Nanomaterials for Wound Healing and Infection Control. <i>Materials</i> , 2019, 12, 2176.	2.9	263
3	Methods of Synthesis, Properties and Biomedical Applications of CuO Nanoparticles. <i>Pharmaceutics</i> , 2016, 9, 75.	3.8	257
4	Synthesis and characterization of a novel controlled release zinc oxide/gentamicin-chitosan composite with potential applications in wounds care. <i>International Journal of Pharmaceutics</i> , 2014, 463, 161-169.	5.2	108
5	Advanced Nanobiomaterials: Vaccines, Diagnosis and Treatment of Infectious Diseases. <i>Molecules</i> , 2016, 21, 867.	3.8	92
6	Nanocoatings for Chronic Wound Repair-Modulation of Microbial Colonization and Biofilm Formation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1179.	4.1	90
7	Biodegradable Alginate Films with ZnO Nanoparticles and Citronella Essential Oil-A Novel Antimicrobial Structure. <i>Pharmaceutics</i> , 2021, 13, 1020.	4.5	85
8	Biohybrid Nanostructured Iron Oxide Nanoparticles and <i>Satureja hortensis</i> to Prevent Fungal Biofilm Development. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18110-18123.	4.1	84
9	Microbial Biofilms: Impact on the Pathogenesis of Periodontitis, Cystic Fibrosis, Chronic Wounds and Medical Device-Related Infections. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1552-1576.	2.1	83
10	Electrospun Fiber Pads of Cellulose Acetate and Essential Oils with Antimicrobial Activity. <i>Nanomaterials</i> , 2017, 7, 84.	4.1	74
11	In vitro and in vivo studies of novel fabricated bioactive dressings based on collagen and zinc oxide 3D scaffolds. <i>International Journal of Pharmaceutics</i> , 2019, 557, 199-207.	5.2	68
12	Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics. <i>International Journal of Pharmaceutics</i> , 2013, 454, 233-240.	5.2	67
13	Functionalized antibiofilm thin coatings based on PLA-PVA microspheres loaded with usnic acid natural compounds fabricated by MAPLE. <i>Applied Surface Science</i> , 2014, 302, 262-267.	6.1	64
14	Biocompatible Fe ₃ O ₄ Increases the Efficacy of Amoxicillin Delivery against Gram-Positive and Gram-Negative Bacteria. <i>Molecules</i> , 2014, 19, 5013-5027.	3.8	59
15	Magnetite Nanostructures as Novel Strategies for Anti-Infectious Therapy. <i>Molecules</i> , 2014, 19, 12710-12726.	3.8	58
16	MAPLE fabricated magnetite@eugenol and (3-hidroxybutyric acid-co-3-hidroxyvaleric acid)-polyvinyl alcohol microspheres coated surfaces with anti-microbial properties. <i>Applied Surface Science</i> , 2014, 306, 16-22.	6.1	51
17	Modified wound dressing with phyto-nanostructured coating to prevent staphylococcal and pseudomonal biofilm development. <i>Nanoscale Research Letters</i> , 2012, 7, 690.	5.7	50
18	Cellulose acetate - essential oil nanocapsules with antimicrobial activity for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 471-479.	5.0	50

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19	Poly(lactic acid)-Lemongrass Essential Oil Nanocapsules with Antimicrobial Properties. <i>Pharmaceuticals</i> , 2016, 9, 42.	3.8	46
20	Antimicrobial Wound Dressings as Potential Materials for Skin Tissue Regeneration. <i>Materials</i> , 2019, 12, 1859.	2.9	46
21	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. <i>Materials</i> , 2021, 14, 3084.	2.9	46
22	Optimized Synthesis Approaches of Metal Nanoparticles with Antimicrobial Applications. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-14.	2.7	42
23	Antimicrobial Chitosan based Formulations with Impact on Different Biomedical Applications. <i>Current Pharmaceutical Biotechnology</i> , 2015, 16, 128-136.	1.6	41
24	Nanosized Drug Delivery Systems in Gastrointestinal Targeting: Interactions with Microbiota. <i>Pharmaceuticals</i> , 2016, 9, 62.	3.8	40
25	MAPLE Fabricated Fe ₃ O ₄ @Cinnamomum verum Antimicrobial Surfaces for Improved Gastrostomy Tubes. <i>Molecules</i> , 2014, 19, 8981-8994.	3.8	38
26	Silver Nanocoatings for Reducing the Exogenous Microbial Colonization of Wound Dressings. <i>Materials</i> , 2016, 9, 345.	2.9	38
27	Anionic polymers and 10nm Fe ₃ O ₄ @UA wound dressings support human foetal stem cells normal development and exhibit great antimicrobial properties. <i>International Journal of Pharmaceutics</i> , 2014, 463, 146-154.	5.2	37
28	Co doped ZnO thin films deposited by spin coating as antibacterial coating for metallic implants. <i>Ceramics International</i> , 2020, 46, 3904-3911.	4.8	37
29	Magnetite Nanoparticles and Essential Oils Systems for Advanced Antibacterial Therapies. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7355.	4.1	36
30	Trends in the Immunomodulatory Effects of Cordyceps militaris: Total Extracts, Polysaccharides and Cordycepin. <i>Frontiers in Pharmacology</i> , 2020, 11, 575704.	3.5	35
31	Bioactive mesoporous silica nanostructures with anti-microbial and anti-biofilm properties. <i>International Journal of Pharmaceutics</i> , 2017, 531, 35-46.	5.2	33
32	Electrospun Polyethylene Terephthalate Nanofibers Loaded with Silver Nanoparticles: Novel Approach in Anti-Infective Therapy. <i>Journal of Clinical Medicine</i> , 2019, 8, 1039.	2.4	33
33	Plackett-Burman experimental design for bacterial cellulose-silica composites synthesis. <i>Materials Science and Engineering C</i> , 2014, 42, 280-288.	7.3	32
34	Antimicrobial nanospheres thin coatings prepared by advanced pulsed laser technique. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 872-880.	2.8	31
35	Antimicrobial polycaprolactone/polyethylene glycol embedded lysozyme coatings of Ti implants for osteoblast functional properties in tissue engineering. <i>Applied Surface Science</i> , 2017, 417, 234-243.	6.1	31
36	Hybrid Materials Based on Multi-Walled Carbon Nanotubes and Nanoparticles with Antimicrobial Properties. <i>Nanomaterials</i> , 2021, 11, 1415.	4.1	31

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37	Bioactive Surfaces of Polylactide and Silver Nanoparticles for the Prevention of Microbial Contamination. <i>Materials</i> , 2020, 13, 768.	2.9	31
38	Role of <i>Pseudomonas aeruginosa</i> quorum sensing (QS) molecules on the viability and cytokine profile of human mesenchymal stem cells. <i>Virulence</i> , 2014, 5, 303-310.	4.4	30
39	Control of biofilm-associated infections by signaling molecules and nanoparticles. <i>International Journal of Pharmaceutics</i> , 2016, 510, 409-418.	5.2	30
40	Nanosystems for Improved Targeted Therapies in Melanoma. <i>Journal of Clinical Medicine</i> , 2020, 9, 318.	2.4	30
41	Metal Oxide Nanoparticles: Potential Uses in Biomedical Applications. <i>Current Proteomics</i> , 2014, 11, 139-149.	0.3	30
42	Applications of Nanodiamonds in the Detection and Therapy of Infectious Diseases. <i>Materials</i> , 2019, 12, 1639.	2.9	29
43	Modulation of Quorum Sensing and Biofilms in Less Investigated Gram-Negative ESKAPE Pathogens. <i>Frontiers in Microbiology</i> , 2021, 12, 676510.	3.5	29
44	Identification and phenotypic characterization of the most frequent bacterial etiologies in chronic skin ulcers. <i>Romanian Journal of Morphology and Embryology</i> , 2014, 55, 1401-8.	0.8	29
45	Efficient surface functionalization of wound dressings by a phytoactive nanocoating refractory to <i>Candida albicans</i> biofilm development. <i>Biointerphases</i> , 2013, 8, 12.	1.6	28
46	MAPLE Coatings Embedded with Essential Oil-Conjugated Magnetite for Anti-Biofilm Applications. <i>Materials</i> , 2021, 14, 1612.	2.9	27
47	Antimicrobial Nanostructured Bioactive Coating Based on Fe ₃ O ₄ and Patchouli Oil for Wound Dressing. <i>Metals</i> , 2016, 6, 103.	2.3	26
48	Bioactive ZnO Coatings Deposited by MAPLE: An Appropriate Strategy to Produce Efficient Anti-Biofilm Surfaces. <i>Molecules</i> , 2016, 21, 220.	3.8	26
49	Magnetic Particles for Advanced Molecular Diagnosis. <i>Materials</i> , 2019, 12, 2158.	2.9	25
50	MAPLE fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties. <i>Applied Surface Science</i> , 2015, 336, 188-195.	6.1	24
51	MAPLE deposition of <i>Nigella sativa</i> functionalized Fe ₃ O ₄ nanoparticles for antimicrobial coatings. <i>Applied Surface Science</i> , 2018, 455, 513-521.	6.1	24
52	Antibiofilm Coatings Based on PLGA and Nanostructured Cefepime-Functionalized Magnetite. <i>Nanomaterials</i> , 2018, 8, 633.	4.1	23
53	Wound Dressings Coated with Silver Nanoparticles and Essential Oils for The Management of Wound Infections. <i>Materials</i> , 2020, 13, 1682.	2.9	23
54	Fabrication, Characterization, and Evaluation of Bionanocomposites Based on Natural Polymers and Antibiotics for Wound Healing Applications. <i>Molecules</i> , 2016, 21, 761.	3.8	22

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55	Collagen-Carboxymethylcellulose Biocomposite Wound-Dressings with Antimicrobial Activity. <i>Materials</i> , 2021, 14, 1153.	2.9	22
56	New Molecular Strategies for Reducing Implantable Medical Devices Associated Infections. <i>Current Medicinal Chemistry</i> , 2014, 21, 3375-3382.	2.4	21
57	Inorganic nanoarchitectonics designed for drug delivery and anti-infective surfaces. , 2016, , 301-327.		21
58	Collagen-Nanoparticles Composites for Wound Healing and Infection Control. <i>Metals</i> , 2017, 7, 516.	2.3	21
59	Use of Biopolymers in Mucosally-Administered Vaccinations for Respiratory Disease. <i>Materials</i> , 2019, 12, 2445.	2.9	21
60	Epidemiology of Tropical Neglected Diseases in Ecuador in the Last 20 Years. <i>PLoS ONE</i> , 2015, 10, e0138311.	2.5	21
61	Dextran-Coated Iron Oxide Nanoparticles Loaded with Curcumin for Antimicrobial Therapies. <i>Pharmaceutics</i> , 2022, 14, 1057.	4.5	21
62	Mesoporous silica coatings for cephalosporin active release at the bone-implant interface. <i>Applied Surface Science</i> , 2016, 374, 165-171.	6.1	20
63	Iron oxide nanoparticles modulate the interaction of different antibiotics with cellular membranes. <i>Romanian Journal of Morphology and Embryology</i> , 2014, 55, 849-56.	0.8	20
64	Gamma-cyclodextrin/usnic acid thin film fabricated by MAPLE for improving the resistance of medical surfaces to <i>Staphylococcus aureus</i> colonization. <i>Applied Surface Science</i> , 2015, 336, 407-412.	6.1	19
65	Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections. <i>Applied Surface Science</i> , 2016, 374, 387-396.	6.1	19
66	In Situ and Ex Situ Designed Hydroxyapatite: Bacterial Cellulose Materials with Biomedical Applications. <i>Materials</i> , 2020, 13, 4793.	2.9	19
67	Novel Drug Delivery Magnetite Nano-systems Used in Antimicrobial Therapy. <i>Current Organic Chemistry</i> , 2014, 18, 185-191.	1.6	19
68	Thin coatings based on ZnO@C18-usnic acid nanoparticles prepared by MAPLE inhibit the development of <i>Salmonella enterica</i> early biofilm growth. <i>Applied Surface Science</i> , 2016, 374, 318-325.	6.1	18
69	Laser deposition of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) " lysozyme microspheres based coatings with anti-microbial properties. <i>International Journal of Pharmaceutics</i> , 2017, 521, 184-195.	5.2	18
70	Phenotypic and genotypic virulence features of staphylococcal strains isolated from difficult-to-treat skin and soft tissue infections. <i>PLoS ONE</i> , 2021, 16, e0246478.	2.5	17
71	Magnetite Nanoparticles Functionalized with Therapeutic Agents for Enhanced ENT Antimicrobial Properties. <i>Antibiotics</i> , 2022, 11, 623.	3.7	17
72	MAPLE fabricated coatings based on magnetite nanoparticles embedded into biopolymeric spheres resistant to microbial colonization. <i>Applied Surface Science</i> , 2018, 448, 230-236.	6.1	15

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73	Laser Processed Antimicrobial Nanocomposite Based on Polyaniline Grafted Lignin Loaded with Gentamicin-Functionalized Magnetite. <i>Polymers</i> , 2019, 11, 283.	4.5	15
74	Novel Therapeutic Strategies Applied to <i>Pseudomonas aeruginosa</i> Infections in Cystic Fibrosis. <i>Materials</i> , 2019, 12, 4093.	2.9	15
75	Bioactive Coatings Based on Hydroxyapatite, Kanamycin, and Growth Factor for Biofilm Modulation. <i>Antibiotics</i> , 2021, 10, 160.	3.7	15
76	Antimicrobial coatings based on zinc oxide and orange oil for improved bioactive wound dressings and other applications. <i>Romanian Journal of Morphology and Embryology</i> , 2016, 57, 107-14.	0.8	15
77	Antimicrobial applications of MAPLE processed coatings based on PLGA and lincomycin functionalized magnetite nanoparticles. <i>Applied Surface Science</i> , 2019, 484, 587-599.	6.1	14
78	Biofilm-Resistant Nanocoatings Based on ZnO Nanoparticles and Linalool. <i>Nanomaterials</i> , 2021, 11, 2564.	4.1	14
79	Anti-Biofilm Coatings Based on Chitosan and Lysozyme Functionalized Magnetite Nanoparticles. <i>Antibiotics</i> , 2021, 10, 1269.	3.7	14
80	PEG-Functionalized Magnetite Nanoparticles for Modulation of Microbial Biofilms on Voice Prosthesis. <i>Antibiotics</i> , 2022, 11, 39.	3.7	14
81	Carvone functionalized iron oxide nanostructures thin films prepared by MAPLE for improved resistance to microbial colonization. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 605-611.	2.4	12
82	Antimicrobial Films based on Chitosan, Collagen, and ZnO for Skin Tissue Regeneration. <i>Biointerface Research in Applied Chemistry</i> , 2021, 11, 11985-11995.	1.0	12
83	Biocompatible and Antimicrobial Cellulose Acetate-Collagen Films Containing MWCNTs Decorated with TiO ₂ Nanoparticles for Potential Biomedical Applications. <i>Nanomaterials</i> , 2022, 12, 239.	4.1	12
84	MAPLE fabricated magnetite@ <i>Melissa officinalis</i> and poly lactic acid: chitosan coated surfaces with anti-staphylococcal properties. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 612-619.	2.4	11
85	Nanomagnetite-embedded PLGA Spheres for Multipurpose Medical Applications. <i>Materials</i> , 2019, 12, 2521.	2.9	11
86	SSNOMBACTER: A collection of scattering-type scanning near-field optical microscopy and atomic force microscopy images of bacterial cells. <i>GigaScience</i> , 2020, 9, .	6.4	11
87	Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications. <i>Applied Surface Science</i> , 2015, 336, 401-406.	6.1	10
88	Suberin/ <i>trans</i> -Cinnamaldehyde Oil Nanoparticles with Antimicrobial Activity and Anticancer Properties When Loaded with Paclitaxel. <i>ACS Applied Bio Materials</i> , 2019, 2, 3484-3497.	4.6	10
89	Biocompatible hybrid silica nanobiocomposites for the efficient delivery of anti-staphylococcal drugs. <i>International Journal of Pharmaceutics</i> , 2016, 510, 532-542.	5.2	9
90	Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite. <i>BioNanoScience</i> , 2018, 8, 154-165.	3.5	9

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91	Polyphenols of Honeybee Origin with Applications in Dental Medicine. <i>Antibiotics</i> , 2020, 9, 856.	3.7	8
92	Magnetite Nanoshuttles for Fighting <i>Staphylococcus aureus</i> Infections: A Recent Review. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1589-1595.	2.1	8
93	Poly(lactic-co-glycolic) acid/chitosan microsphere thin films functionalized with <i>Cinnamomi aetheroleum</i> and magnetite nanoparticles for preventing the microbial colonization of medical surfaces. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 679-686.	2.4	7
94	Lincomycin-embedded PANI-based coatings for biomedical applications. <i>Applied Surface Science</i> , 2018, 455, 653-666.	6.1	7
95	Nano-hydroxyapatite. , 2016, , 189-213.		6
96	Nanostructured Thin Coatings Containing <i>Anthriscus sylvestris</i> Extract with Dual Bioactivity. <i>Molecules</i> , 2020, 25, 3866.	3.8	6
97	Atmospheric Pressure Plasma Activation of Hydroxyapatite to Improve Fluoride Incorporation and Modulate Bacterial Biofilm. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13103.	4.1	6
98	Manufacturing nanostructured chitosan-based 2D sheets with prolonged antimicrobial activity. <i>Romanian Journal of Morphology and Embryology</i> , 2018, 59, 517-525.	0.8	6
99	Soft tissue engineering and microbial infections. , 2016, , 1-29.		5
100	Biocompatible 3D Matrix with Antimicrobial Properties. <i>Molecules</i> , 2016, 21, 115.	3.8	5
101	<sc>STED</sc> nanoscopy of <sc>KK114</sc>-stained pathogenic bacteria. <i>Journal of Biophotonics</i> , 2020, 13, e202000097.	2.3	5
102	Prosthetic Devices with Nanostructured Surfaces for Increased Resistance to Microbial Colonization. <i>Current Pharmaceutical Biotechnology</i> , 2015, 16, 112-120.	1.6	5
103	Magnetite nanostructures functionalized with cytostatic drugs exhibit great anti-tumoral properties without application of high amplitude alternating magnetic fields. <i>Romanian Journal of Morphology and Embryology</i> , 2014, 55, 357-62.	0.8	5
104	Nanostructured mesoporous silica: new perspectives for fighting antimicrobial resistance. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	4
105	Synthesis, characterization, and biological activity of some complex combinations of nickel with α -ketoglutaric acid and 1-(o-tolyl)biguanide. <i>Comptes Rendus Chimie</i> , 2018, 21, 32-40.	0.5	4
106	Preliminary Study on Light-Activated Antimicrobial Agents as Photocatalytic Method for Protection of Surfaces with Increased Risk of Infections. <i>Materials</i> , 2021, 14, 5307.	2.9	4
107	Silica network improve the effect of fludarabine and paclitaxel on HCT8 cell line. <i>Romanian Journal of Morphology and Embryology</i> , 2014, 55, 545-51.	0.8	4
108	Introduction in Nutraceutical and Medicinal Foods. , 2018, , 1-12.		3

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109	Effects of Coffee on Intestinal Microbiota, Immunity, and Disease. , 2019, , 391-421.		3
110	Nanostructured Approaches for the Targeted Delivery of Antibiotics in Difficult Infections. Current Organic Chemistry, 2016, 21, 45-52.	1.6	3
111	Phenotypic and Genetic Evaluation of the Influence of Pseudomonas aeruginosa Culture Fractions on the Human Mesenchymal Stem Cells Viability, Apoptotic Pathways and Cytokine Profile. Current Stem Cell Research and Therapy, 2016, 12, 175-180.	1.3	3
112	Magnetite Nanocomposites Thin Coatings Prepared by MAPLE to Prevent Microbial Colonization of Medical Surfaces. Advanced Structured Materials, 2015, , 311-339.	0.5	2
113	Composite P(3HB-3HV)-CS Spheres for Enhanced Antibiotic Efficiency. Polymers, 2021, 13, 989.	4.5	2
114	The Role of Intestinal Microbiota and Microbial Metabolites in the Development of Host Metabolic Syndrome. Food Chemistry, Function and Analysis, 2020, , 191-209.	0.2	2
115	Phenotypic and genotypic evaluation of adherence and biofilm development in <i>Candida albicans</i> respiratory tract isolates from hospitalized patients. Romanian Journal of Laboratory Medicine, 2019, 27, 73-83.	0.2	2
116	Complexes of Cu (II) with α -Ketoglutaric Acid and 1- (o-tolyl) Biguanide Synthesis, characterization and biological Activity. Revista De Chimie (discontinued), 2019, 70, 3603-3610.	0.4	2
117	Structure-grain size-synthesis route of silver nanoparticles: a correlation with the cytotoxic effect. Romanian Journal of Morphology and Embryology, 2019, 60, 617-628.	0.8	2
118	Editorial (Thematic Issue: Antimicrobial Strategies based on Natural Products: Recent Progress in Bio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.6	1
119	Nanotherapeutics in the management of infections and cancer. , 2017, , 163-189.		1
120	Electrochemotherapy and Other Clinical Applications of Electroporation for the Targeted Therapy of Metastatic Melanoma. Materials, 2021, 14, 3985.	2.9	1
121	Evaluation of the antibiotic susceptibility and virulence factors production in Staphylococcus spp. strains used to obtain autologous vaccines. Infectio Ro, 2018, 2, 27.	0.0	1
122	Magnetite Nanostructures. , 2015, , 51-67.		0
123	Bioactive nanomaterials for cartilage and muscle regeneration. , 2016, , 261-297.		0
124	PLA and PLGA nanoarchitectonics for improving anti-infective drugs efficiency. , 2016, , 451-482.		0
125	Core-shell nanomaterials for infection and cancer therapy. , 2019, , 197-211.		0
126	Biopolymers Tailored For Intelligent Scaffolding and Drug Delivery. Current Organic Chemistry, 2016, 20, 2989-2995.	1.6	0

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127	Hybrid Materials Based on Multi-Walled Carbon Nanotubes and TiO ₂ Nanoparticles with Antimicrobial Properties <i>â€</i> . , 2022, 7, .		0