

Xiaokang Ding

List of Publications by Year in descending order

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papers

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66343

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docs citations

93
times ranked

6065
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatile Antibacterial Materials: An Emerging Arsenal for Combatting Bacterial Pathogens. <i>Advanced Functional Materials</i> , 2018, 28, 1802140.	14.9	372
2	Versatile Types of Organic/Inorganic Nanohybrids: From Strategic Design to Biomedical Applications. <i>Chemical Reviews</i> , 2019, 119, 1666-1762.	47.7	299
3	Rational design and latest advances of polysaccharide-based hydrogels for wound healing. <i>Biomaterials Science</i> , 2020, 8, 2084-2101.	5.4	245
4	Rough Carbonâ€“Iron Oxide Nanohybrids for Near-Infrared-II Light-Responsive Synergistic Antibacterial Therapy. <i>ACS Nano</i> , 2021, 15, 7482-7490.	14.6	218
5	Polycationic Synergistic Antibacterial Agents with Multiple Functional Components for Efficient Antiâ€“Infective Therapy. <i>Advanced Functional Materials</i> , 2018, 28, 1706709.	14.9	193
6	Well-Defined Gold Nanorod/Polymer Hybrid Coating with Inherent Antifouling and Photothermal Bactericidal Properties for Treating an Infected Hernia. <i>ACS Nano</i> , 2020, 14, 2265-2275.	14.6	166
7	Biomolecule-functionalized polymer brushes. <i>Chemical Society Reviews</i> , 2013, 42, 3394.	38.1	153
8	Biodegradable Antibacterial Polymeric Nanosystems: A New Hope to Cope with Multidrugâ€“Resistant Bacteria. <i>Small</i> , 2019, 15, e1900999.	10.0	135
9	Molecular Sizes and Antibacterial Performance Relationships of Flexible Ionic Liquid Derivatives. <i>Journal of the American Chemical Society</i> , 2020, 142, 20257-20269.	13.7	128
10	Photo-responsive supramolecular hyaluronic acid hydrogels for accelerated wound healing. <i>Journal of Controlled Release</i> , 2020, 323, 24-35.	9.9	128
11	Biofilmâ€“Sensitive Photodynamic Nanoparticles for Enhanced Penetration and Antibacterial Efficiency. <i>Advanced Functional Materials</i> , 2021, 31, 2103591.	14.9	128
12	Silica-Coated Goldâ€“Silver Nanocages as Photothermal Antibacterial Agents for Combined Anti-Infective Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17177-17183.	8.0	126
13	Reduction-responsive multifunctional hyperbranched polyaminoglycosides with excellent antibacterial activity, biocompatibility and gene transfection capability. <i>Biomaterials</i> , 2016, 106, 134-143.	11.4	120
14	Dualâ€“Crosslinked Amorphous Polysaccharide Hydrogels Based on Chitosan/Alginate for Wound Healing Applications. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800069.	3.9	111
15	Multifunctional antimicrobial materials: From rational design to biomedical applications. <i>Progress in Materials Science</i> , 2022, 125, 100887.	32.8	108
16	Redox-Responsive Polycation-Functionalized Cotton Cellulose Nanocrystals for Effective Cancer Treatment. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8942-8951.	8.0	103
17	NIRâ€“Responsive Polycationic Gatekeeperâ€“Cloaked Heteroâ€“Nanoparticles for Multimodal Imagingâ€“Guided Tripleâ€“Combination Therapy of Cancer. <i>Small</i> , 2017, 13, 1603133.	10.0	102
18	Antimicrobial Peptide-Conjugated Hierarchical Antifouling Polymer Brushes for Functionalized Catheter Surfaces. <i>Biomacromolecules</i> , 2019, 20, 4171-4179.	5.4	101

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19	Ultrafast discrimination of Gram-positive bacteria and highly efficient photodynamic antibacterial therapy using near-infrared photosensitizer with aggregation-induced emission characteristics. <i>Biomaterials</i> , 2020, 230, 119582.	11.4	91
20	Antimicrobial and Antifouling Polymeric Agents for Surface Functionalization of Medical Implants. <i>Biomacromolecules</i> , 2018, 19, 2805-2811.	5.4	89
21	Multifunctional polycationic photosensitizer conjugates with rich hydroxyl groups for versatile water-soluble photodynamic therapy nanoplateforms. <i>Biomaterials</i> , 2017, 117, 77-91.	11.4	88
22	Controlled Synthesis and Surface Engineering of Janus Chitosan@Gold Nanoparticles for Photoacoustic Imaging-Guided Synergistic Gene/Photothermal Therapy. <i>Small</i> , 2021, 17, e2006004.	10.0	87
23	Hemostatic porous sponges of cross-linked hyaluronic acid/cationized dextran by one self-foaming process. <i>Materials Science and Engineering C</i> , 2018, 83, 160-168.	7.3	86
24	Biomedical polymers: synthesis, properties, and applications. <i>Science China Chemistry</i> , 2022, 65, 1010-1075.	8.2	85
25	Self-Adaptive Antibacterial Porous Implants with Sustainable Responses for Infected Bone Defect Therapy. <i>Advanced Functional Materials</i> , 2019, 29, 1807915.	14.9	82
26	Supramolecular pseudo-block gene carriers based on bioreducible star polycations. <i>Biomaterials</i> , 2013, 34, 5411-5422.	11.4	78
27	Phototuning Energy Transfer in Self-Organized Luminescent Helical Superstructures for Photonic Applications. <i>Advanced Optical Materials</i> , 2020, 8, 2000107.	7.3	73
28	Redox-Triggered Gatekeeper-Enveloped Starlike Hollow Silica Nanoparticles for Intelligent Delivery Systems. <i>Small</i> , 2015, 11, 6467-6479.	10.0	70
29	Liquid crystal based optical sensor for detection of vaporous butylamine in air. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 607-613.	7.8	68
30	Multifunctional pDNA-Conjugated Polycationic Au Nanorod-Coated Fe ₃ O ₄ Hierarchical Nanocomposites for Trimodal Imaging and Combined Photothermal/Gene Therapy. <i>Small</i> , 2016, 12, 2459-2468.	10.0	61
31	Fluorinated Acid-Labile Branched Hydroxyl-Rich Nanosystems for Flexible and Robust Delivery of Plasmids. <i>Small</i> , 2018, 14, e1803061.	10.0	61
32	Wearable, Washable, and Highly Sensitive Piezoresistive Pressure Sensor Based on a 3D Sponge Network for Real-Time Monitoring Human Body Activities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46848-46857.	8.0	61
33	Antibody-free Detection of Human Chorionic Gonadotropin by Use of Liquid Crystals. <i>Analytical Chemistry</i> , 2013, 85, 10710-10716.	6.5	60
34	Hierarchical Nanohybrids of Gold Nanorods and PGMA-Based Polycations for Multifunctional Theranostics. <i>Advanced Functional Materials</i> , 2016, 26, 5848-5861.	14.9	58
35	Versatile types of hydroxyl-rich polycationic systems via O-heterocyclic ring-opening reactions: From strategic design to nucleic acid delivery applications. <i>Progress in Polymer Science</i> , 2018, 78, 56-91.	24.7	57
36	Multiple types of hydroxyl-rich cationic derivatives of PGMA for broad-spectrum antibacterial and antifouling coatings. <i>Polymer Chemistry</i> , 2016, 7, 5709-5718.	3.9	56

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37	Hydroxyl-Rich Polycation Brushed Multifunctional Rare-Earth-Gold Core-Shell Nanorods for Versatile Therapy Platforms. <i>Advanced Functional Materials</i> , 2017, 27, 1701255.	14.9	55
38	Self-adaptive antibacterial surfaces with bacterium-triggered antifouling-bactericidal switching properties. <i>Biomaterials Science</i> , 2020, 8, 997-1006.	5.4	55
39	A Lactose-Derived CRISPR/Cas9 Delivery System for Efficient Genome Editing In Vivo to Treat Orthotopic Hepatocellular Carcinoma. <i>Advanced Science</i> , 2020, 7, 2001424.	11.2	50
40	Development of an Oligopeptide Functionalized Surface Plasmon Resonance Biosensor for Online Detection of Glyphosate. <i>Analytical Chemistry</i> , 2013, 85, 5727-5733.	6.5	48
41	Well-Defined Peapod-like Magnetic Nanoparticles and Their Controlled Modification for Effective Imaging Guided Gene Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11298-11308.	8.0	46
42	Well-Defined Protein-Based Supramolecular Nanoparticles with Excellent MRI Abilities for Multifunctional Delivery Systems. <i>Advanced Functional Materials</i> , 2016, 26, 2855-2865.	14.9	45
43	Dual-Functional Implants with Antibacterial and Osteointegration-Promoting Performances. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36449-36457.	8.0	43
44	A facile strategy to functionalize gold nanorods with polycation brushes for biomedical applications. <i>Acta Biomaterialia</i> , 2014, 10, 3786-3794.	8.3	41
45	Versatile Types of MRI-Visible Cationic Nanoparticles Involving Pullulan Polysaccharides for Multifunctional Gene Carriers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3919-3927.	8.0	41
46	Colorimetric protease assay by using gold nanoparticles and oligopeptides. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 234-239.	7.8	40
47	Phthalocyanine functionalized poly(glycidyl methacrylate) nano-assemblies for photodynamic inactivation of bacteria. <i>Biomaterials Science</i> , 2019, 7, 1905-1918.	5.4	40
48	Bioswitchable Antibacterial Coatings Enable Self-Sterilization of Implantable Healthcare Dressings. <i>Advanced Functional Materials</i> , 2021, 31, 2011165.	14.9	36
49	Bacteria-Targeting Photodynamic Nanoassemblies for Efficient Treatment of Multidrug-Resistant Biofilm Infected Keratitis. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	36
50	Oligopeptides functionalized surface plasmon resonance biosensors for detecting thiacloprid and imidacloprid. <i>Biosensors and Bioelectronics</i> , 2012, 35, 271-276.	10.1	30
51	Effective Delivery of Hypertrophic miRNA Inhibitor by Cholesterol-Containing Nanocarriers for Preventing Pressure Overload Induced Cardiac Hypertrophy. <i>Advanced Science</i> , 2019, 6, 1900023.	11.2	30
52	Facile Surface Multi-Functionalization of Biomedical Catheters with Dual-Microcrystalline Broad-Spectrum Antibacterial Drugs and Antifouling Poly(ethylene glycol) for Effective Inhibition of Bacterial Infections. <i>ACS Applied Bio Materials</i> , 2019, 2, 1348-1356.	4.6	29
53	Controllable Heparin-Based Comb Copolymers and Their Self-assembled Nanoparticles for Gene Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8376-8385.	8.0	28
54	Polycaprolactone/polysaccharide functional composites for low-temperature fused deposition modelling. <i>Bioactive Materials</i> , 2020, 5, 185-191.	15.6	28

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55	Quaternary tannic acid with improved leachability and biocompatibility for antibacterial medical thermoplastic polyurethane catheters. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4746-4762.	5.8	26
56	One nanosystem with potent antibacterial and gene-delivery performances accelerates infected wound healing. <i>Nano Today</i> , 2021, 39, 101224.	11.9	25
57	Versatile Functionalization of Poly(methacrylic acid) Brushes with Series of Proteolytically Cleavable Peptides for Highly Sensitive Protease Assay. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 127-135.	8.0	24
58	A study of electro-optical properties of PDLC films prepared by dual UV and heat curing. <i>Liquid Crystals</i> , 2008, 35, 587-595.	2.2	23
59	Rodlike Supramolecular Nanoassemblies of Degradable Poly(Aspartic Acid) Derivatives and Hydroxyl-Rich Polycations for Effective Delivery of Versatile Tumor-Suppressive ncRNAs. <i>Small</i> , 2018, 14, 1703152.	10.0	23
60	CRISPR/Cas9 Delivery Mediated with Hydroxyl-Rich Nanosystems for Gene Editing in Aorta. <i>Advanced Science</i> , 2019, 6, 1900386.	11.2	23
61	A Facile Strategy to Prepare Hyperbranched Hydroxyl-Rich Polycations for Effective Gene Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29334-29342.	8.0	22
62	Gd(III) ion-chelated supramolecular assemblies composed of PGMA-based polycations for effective biomedical applications. <i>NPG Asia Materials</i> , 2015, 7, e197-e197.	7.9	21
63	Photoswitchable Fluorescent Liquid Crystal Nanoparticles and Their Inkjet-Printed Patterns for Information Encrypting and Anti-Counterfeiting. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900346.	2.3	21
64	Luminescent detection of the lipopolysaccharide endotoxin and rapid discrimination of bacterial pathogens using cationic platinum(II) complexes. <i>RSC Advances</i> , 2017, 7, 32632-32636.	3.6	20
65	Flexible Cationic Nanoparticles with Photosensitizer Cores for Multifunctional Biomedical Applications. <i>Small</i> , 2018, 14, e1800201.	10.0	20
66	Multifunctional Delivery Nanosystems Formed by Degradable Antibacterial Poly(Aspartic Acid) Derivatives for Infected Skin Defect Therapy. <i>Advanced Healthcare Materials</i> , 2019, 8, e1800889.	7.6	20
67	Reduction-Responsive Nucleic Acid Delivery Systems To Prevent In-Stent Restenosis in Rabbits. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28307-28316.	8.0	19
68	Rational Design of Peptide-Functionalized Poly(Methacrylic Acid) Brushes for On-Chip Detection of Protease Biomarkers. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2018-2025.	5.2	18
69	PGMA-based starlike polycations with flanking phenylboronic acid groups for highly efficient multifunctional gene delivery systems. <i>Polymer Chemistry</i> , 2015, 6, 6208-6218.	3.9	17
70	Quantitative serine protease assays based on formation of copper(II)-oligopeptide complexes. <i>Analyst</i> , 2015, 140, 340-345.	3.5	17
71	High-performance cationic polyrotaxanes terminated with polypeptides as promising nucleic acid delivery systems. <i>Polymer Chemistry</i> , 2018, 9, 2281-2289.	3.9	17
72	A Hybrid Nanovector of Suicide Gene Engineered Lentivirus Coated with Bioreducible Polyaminoglycosides for Enhancing Therapeutic Efficacy against Glioma. <i>Advanced Functional Materials</i> , 2019, 29, 1807104.	14.9	16

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73	Tunable Adhesion of Different Cell Types Modulated by Thermoresponsive Polymer Brush Thickness. <i>Biomacromolecules</i> , 2020, 21, 732-742.	5.4	15
74	Reversible Treatment of Pressure Overload-Induced Left Ventricular Hypertrophy through <i>Drd5</i> Nucleic Acid Delivery Mediated by Functional Polyaminoglycoside. <i>Advanced Science</i> , 2021, 8, 2003706.	11.2	15
75	A hydrophobic cationic polyphenol coating for versatile antibacterial and hemostatic devices. <i>Chemical Engineering Journal</i> , 2022, 444, 135426.	12.7	15
76	Flame retardancy of polyamide 66 nanocomposites with thermally stable organoclay. <i>Polymers for Advanced Technologies</i> , 2012, 23, 137-142.	3.2	14
77	Phenylboronic acid-functionalized polyaminoglycoside as an effective CRISPR/Cas9 delivery system. <i>Biomaterials Science</i> , 2021, 9, 7104-7114.	5.4	12
78	Preparation of medical hydrophilic and antibacterial silicone rubber <i>via</i> surface modification. <i>RSC Advances</i> , 2021, 11, 39950-39957.	3.6	11
79	Two-dimensional copper metal-organic frameworks as antibacterial agents for biofilm treatment. <i>Science China Technological Sciences</i> , 2022, 65, 1052-1058.	4.0	11
80	Mechanistic study for immobilization of cysteine-labeled oligopeptides on UV-activated surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 166-174.	5.0	10
81	Gradient Functionalization of Various Quaternized Polyethylenimines on Microfluidic Chips for the Rapid Appraisal of Antibacterial Potencies. <i>Langmuir</i> , 2020, 36, 354-361.	3.5	10
82	Antibacterial plasticizers based on bio-based engineering elastomers for medical PVC: synthesis, characterization and properties. <i>Polymer Chemistry</i> , 2021, 12, 1114-1124.	3.9	10
83	Bulk Modification of Thermoplastic Polyurethanes for Self-Sterilization of Trachea Intubation. <i>Macromolecular Bioscience</i> , 2021, 21, e2000318.	4.1	9
84	A natural polysaccharide-based antibacterial functionalization strategy for liquid and air filtration membranes. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2471-2480.	5.8	9
85	Series of In Situ Photoinduced Polymer Graftings for Sensitive Detection of Protein Biomarkers via Cascade Amplification of Liquid Crystal Signals. <i>Biomacromolecules</i> , 2018, 19, 1959-1965.	5.4	6
86	Enzymatic Deposition of Silver Particles for Detecting Protease Activity. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1300-1306.	2.3	5
87	Polyaminoglycoside-mediated cell reprogramming system for the treatment of diabetes mellitus. <i>Journal of Controlled Release</i> , 2022, 343, 420-433.	9.9	5
88	Heparinized anticoagulant coatings based on polyphenol-amine inspired chemistry for blood-contacting catheters. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1795-1804.	5.8	5
89	Flexible electrostatic hydrogels from marine organism for nitric oxide-enhanced photodynamic therapy against multidrug-resistant bacterial infection. <i>Science China Materials</i> , 2022, 65, 2850-2860.	6.3	5
90	Degradable branched polycationic systems for nucleic acid delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1631.	6.1	4

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91	Supramolecular Hydrogel Based on Pseudopolyrotaxane Aggregation for Bacterial Microenvironment-Responsive Antibiotic Delivery. Chemistry - an Asian Journal, 2022, 17, .	3.3	4
92	Study on the gas permeabilities in styrene-butadiene rubber by molecular dynamics simulation. Frontiers of Chemical Engineering in China, 2010, 4, 257-262.	0.6	0
93	Oligopeptides for Cancer and Other Biomedical Sensing Applications. , 2017, , 279-304.		0