

Qian Yu

List of Publications by Year in descending order

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83
papers

5,129
citations

71102

41
h-index

88630

70
g-index

84
all docs

84
docs citations

84
times ranked

5275
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-function antibacterial surfaces for biomedical applications. <i>Acta Biomaterialia</i> , 2015, 16, 1-13.	8.3	354
2	Smart Antibacterial Surfaces with Switchable Bacteria-Killing and Bacteria-Releasing Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37511-37523.	8.0	308
3	Anti-fouling bioactive surfaces. <i>Acta Biomaterialia</i> , 2011, 7, 1550-1557.	8.3	280
4	Responsive and Synergistic Antibacterial Coatings: Fighting against Bacteria in a Smart and Effective Way. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801381.	7.6	270
5	Nanopatterned Smart Polymer Surfaces for Controlled Attachment, Killing, and Release of Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9295-9304.	8.0	225
6	Construction of nanomaterials with targeting phototherapy properties to inhibit resistant bacteria and biofilm infections. <i>Chemical Engineering Journal</i> , 2019, 358, 74-90.	12.7	170
7	Polyimide/cellulose acetate core/shell electrospun fibrous membranes for oil-water separation. <i>Separation and Purification Technology</i> , 2017, 177, 71-85.	7.9	147
8	A Smart Antibacterial Surface for the Onâ€Demand Killing and Releasing of Bacteria. <i>Advanced Healthcare Materials</i> , 2016, 5, 449-456.	7.6	128
9	Smart Biointerface with Photoswitched Functions between Bactericidal Activity and Bacteria-Releasing Ability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25767-25774.	8.0	120
10	Surface Modified with a Host Defense Peptide-Mimicking Î²-Peptide Polymer Kills Bacteria on Contact with High Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15395-15400.	8.0	117
11	Smart, Photothermally Activated, Antibacterial Surfaces with Thermally Triggered Bacteria-Releasing Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21283-21291.	8.0	116
12	Multifunctional and Regenerable Antibacterial Surfaces Fabricated by a Universal Strategy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30048-30057.	8.0	114
13	Photothermal bactericidal surfaces: killing bacteria using light instead of biocides. <i>Biomaterials Science</i> , 2021, 9, 10-22.	5.4	109
14	Protein Adsorption and Cell Adhesion/Detachment Behavior on Dual-Responsive Silicon Surfaces Modified with Poly(N-isopropylacrylamide)- <i>block</i> -polystyrene Copolymer. <i>Langmuir</i> , 2010, 26, 8582-8588.	3.5	108
15	Nanopatterned antimicrobial enzymatic surfaces combining biocidal and fouling release properties. <i>Nanoscale</i> , 2014, 6, 4750-4757.	5.6	98
16	Dual-function antibacterial surfaces to resist and kill bacteria: Painting a picture with two brushes simultaneously. <i>Journal of Materials Science and Technology</i> , 2021, 70, 24-38.	10.7	93
17	Protein adsorption on poly(N-isopropylacrylamide)-modified silicon surfaces: Effects of grafted layer thickness and protein size. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 468-474.	5.0	91
18	Practical Preparation of Infection-Resistant Biomedical Surfaces from Antimicrobial Î²-Peptide Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18907-18913.	8.0	77

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19	Surface Modification to Control Protein/Surface Interactions. <i>Macromolecular Bioscience</i> , 2011, 11, 1031-1040.	4.1	73
20	Regenerable smart antibacterial surfaces: full removal of killed bacteria via a sequential degradable layer. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3946-3955.	5.8	71
21	Supramolecular Platform with Switchable Multivalent Affinity: Photo-Reversible Capture and Release of Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3505-3513.	8.0	70
22	High antibacterial efficiency of pDMAEMA modified silicon nanowire arrays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 83, 355-359.	5.0	67
23	Modification of Silicone Elastomer Surfaces with Zwitterionic Polymers: Short-Term Fouling Resistance and Triggered Biofouling Release. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25586-25591.	8.0	63
24	Nanopatterned polymer brushes: conformation, fabrication and applications. <i>Nanoscale</i> , 2016, 8, 680-700.	5.6	63
25	Fabrication of Supramolecular Bioactive Surfaces via β -Cyclodextrin-Based Host-Guest Interactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36585-36601.	8.0	58
26	Self-assembled proteinaceous wound dressings attenuate secondary trauma and improve wound healing in vivo. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4645-4655.	5.8	57
27	A Universal Platform for Macromolecular Delivery into Cells Using Gold Nanoparticle Layers via the Photoporation Effect. <i>Advanced Functional Materials</i> , 2016, 26, 5787-5795.	14.9	55
28	Multistimulus Responsive Biointerfaces with Switchable Bioadhesion and Surface Functions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5447-5455.	8.0	55
29	Bioinspired Blood Compatible Surface Having Combined Fibrinolytic and Vascular Endothelium-Like Properties via a Sequential Coimmobilization Strategy. <i>Advanced Functional Materials</i> , 2015, 25, 5206-5213.	14.9	53
30	Shape-memory and self-healing polyurethanes based on cyclic poly(ϵ -caprolactone). <i>Polymer Chemistry</i> , 2016, 7, 6789-6797.	3.9	53
31	Tissue-engineered Vascular Grafts: Balance of the Four Major Requirements. <i>Colloids and Interface Science Communications</i> , 2018, 23, 34-44.	4.1	53
32	Release of VEGF and BMP9 from injectable alginate based composite hydrogel for treatment of myocardial infarction. <i>Bioactive Materials</i> , 2021, 6, 520-528.	15.6	53
33	A Facile Approach to Modify Polyurethane Surfaces for Biomaterial Applications. <i>Macromolecular Bioscience</i> , 2009, 9, 1165-1168.	4.1	51
34	RIR-MAPLE deposition of multifunctional films combining biocidal and fouling release properties. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4371-4378.	5.8	50
35	A reusable supramolecular platform for the specific capture and release of proteins and bacteria. <i>Journal of Materials Chemistry B</i> , 2017, 5, 444-453.	5.8	47
36	Superhydrophobic photothermal coatings based on candle soot for prevention of biofilm formation. <i>Journal of Materials Science and Technology</i> , 2023, 132, 18-26.	10.7	46

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37	Nanopatterned Polymer Brushes for Triggered Detachment of Anchorage-Dependent Cells. <i>Advanced Functional Materials</i> , 2014, 24, 3751-3759.	14.9	45
38	A new avenue to the synthesis of GAG-mimicking polymers highly promoting neural differentiation of embryonic stem cells. <i>Chemical Communications</i> , 2015, 51, 15434-15437.	4.1	45
39	Universal Antifouling and Photothermal Antibacterial Surfaces Based on Multifunctional Metal-Phenolic Networks for Prevention of Biofilm Formation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48403-48413.	8.0	44
40	A Universal and Versatile Approach for Surface Biofunctionalization: Layer-by-Layer Assembly Meets Host-Guest Chemistry. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600600.	3.7	43
41	Antimicrobial and bacteria-releasing multifunctional surfaces: Oligo (p-phenylene-ethynylene)/poly (N-isopropylacrylamide) films deposited by RIR-MAPLE. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 328-334.	5.0	41
42	Sweet Switch: Sugar-Responsive Bioactive Surfaces Based on Dynamic Covalent Bonding. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10647-10655.	8.0	41
43	Inhibition of protein adsorption and cell adhesion on PNIPAAm-grafted polyurethane surface: Effect of graft molecular weight. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 85, 26-31.	5.0	40
44	Exploration of smart antibacterial coatings for practical applications. <i>Current Opinion in Chemical Engineering</i> , 2021, 34, 100727.	7.8	39
45	Nanopatterned polymer brushes as switchable bioactive interfaces. <i>Nanoscale</i> , 2013, 5, 3632.	5.6	37
46	Gold nanoparticle layer: a versatile nanostructured platform for biomedical applications. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2175-2190.	5.9	36
47	pH-Reversible, High-Capacity Binding of Proteins on a Substrate with Nanostructure. <i>Langmuir</i> , 2010, 26, 17812-17815.	3.5	35
48	Vertical SiNWAs for biomedical and biotechnology applications. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7849-7860.	5.8	35
49	Two-in-One Platform for High-Efficiency Intracellular Delivery and Cell Harvest: When a Photothermal Agent Meets a Thermoresponsive Polymer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12357-12366.	8.0	35
50	An antithrombotic hydrogel with thrombin-responsive fibrinolytic activity: breaking down the clot as it forms. <i>Materials Horizons</i> , 2016, 3, 556-562.	12.2	34
51	A Universal Platform for High-Efficiency Engineering-Living Cells: Integration of Cell Capture, Intracellular Delivery of Biomolecules, and Cell Harvesting Functions. <i>Advanced Functional Materials</i> , 2020, 30, 1906362.	14.9	34
52	Effective and biocompatible antibacterial surfaces via facile synthesis and surface modification of peptide polymers. <i>Bioactive Materials</i> , 2021, 6, 4531-4541.	15.6	34
53	Dual-Functional Surfaces Based on an Antifouling Polymer and a Natural Antibiofilm Molecule: Prevention of Biofilm Formation without Using Biocides. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45191-45200.	8.0	33
54	The synergistic effects of stimuli-responsive polymers with nano-structured surfaces: wettability and protein adsorption. <i>RSC Advances</i> , 2011, 1, 262.	3.6	31

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55	Dual-functional bacterial cellulose modified with phase-transitioned proteins and gold nanorods combining antifouling and photothermal bactericidal properties. <i>Journal of Materials Science and Technology</i> , 2022, 110, 14-23.	10.7	31
56	Using porous magnetic iron oxide nanomaterials as a facile photoporation nanoplatform for macromolecular delivery. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4427-4436.	5.8	29
57	Photothermally Activated Electrospun Nanofiber Mats for High-Efficiency Surface-Mediated Gene Transfection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7905-7914.	8.0	29
58	A surface decorated with diblock copolymer for biomolecular conjugation. <i>Soft Matter</i> , 2010, 6, 2616.	2.7	28
59	Antimicrobial oligo(p-phenylene-ethynylene) film deposited by resonant infrared matrix-assisted pulsed laser evaporation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 786-792.	5.0	28
60	A supramolecular approach for versatile biofunctionalization of magnetic nanoparticles. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2198-2203.	5.8	27
61	Reversible Bacterial Adhesion on Mixed Poly(dimethylaminoethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502 Td (methacrylate)	3.5	24
62	Biomaterials based cardiac patches for the treatment of myocardial infarction. <i>Journal of Materials Science and Technology</i> , 2021, 94, 77-89.	10.7	24
63	Regulation of Protein Binding Capability of Surfaces via Host-Guest Interactions: Effects of Localized and Average Ligand Density. <i>Langmuir</i> , 2015, 31, 6172-6178.	3.5	23
64	Photothermal scaffolds/surfaces for regulation of cell behaviors. <i>Bioactive Materials</i> , 2022, 8, 449-477.	15.6	23
65	Intracellular Delivery Platform for Recalcitrant Cells: When Polymeric Carrier Marries Photoporation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21593-21598.	8.0	22
66	Surface-Mediated Intracellular Delivery by Physical Membrane Disruption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31054-31078.	8.0	22
67	Reusable nanoengineered surfaces for bacterial recruitment and decontamination. <i>Biointerphases</i> , 2016, 11, 019003.	1.6	20
68	A multifunctional surface for blood contact with fibrinolytic activity, ability to promote endothelial cell adhesion and inhibit smooth muscle cell adhesion. <i>Journal of Materials Chemistry B</i> , 2017, 5, 604-611.	5.8	20
69	Nano-catalyst for DNA transformation. <i>Journal of Materials Chemistry</i> , 2011, 21, 6148.	6.7	19
70	Controlled synthesis of diverse single-chain polymeric nanoparticles using polymers bearing furan-protected maleimide moieties. <i>Polymer Chemistry</i> , 2018, 9, 3238-3247.	3.9	17
71	A hemocompatible polyurethane surface having dual fibrinolytic and nitric oxide generating functions. <i>Journal of Materials Chemistry B</i> , 2017, 5, 980-987.	5.8	16
72	Promoting neural differentiation of embryonic stem cells using β -cyclodextrin sulfonate. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1896-1900.	5.8	16

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73	Effects of polymer topology on biointeractions of polymer brushes: Comparison of cyclic and linear polymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 527-532.	5.0	13
74	A supramolecular bioactive surface for specific binding of protein. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 192-198.	5.0	12
75	Antibacterial Coatings: Responsive and Synergistic Antibacterial Coatings: Fighting against Bacteria in a Smart and Effective Way (<i>Adv. Healthcare Mater.</i> 3/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970007.	7.6	12
76	Dynamic furan/maleimide bond-incorporated cyclic polymer for topology transformation. <i>Reactive and Functional Polymers</i> , 2017, 116, 41-48.	4.1	11
77	A Photothermal Nanoplatform with Sugar-Triggered Cleaning Ability for High-Efficiency Intracellular Delivery. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2618-2628.	8.0	8
78	REGULATION OF PROTEIN ADSORPTION ON pH-RESPONSIVE SURFACES. <i>Acta Polymerica Sinica</i> , 2011, 011, 812-816.	0.0	3
79	Photoporation: A Universal Platform for Macromolecular Delivery into Cells Using Gold Nanoparticle Layers via the Photoporation Effect (<i>Adv. Funct. Mater.</i> 32/2016). <i>Advanced Functional Materials</i> , 2016, 26, 5770-5770.	14.9	2
80	Regulation of protein adsorption and cell adhesion on surfaces modified by block copolymer brushes. <i>Chinese Science Bulletin</i> , 2010, 55, 2808-2814.	0.7	2
81	INTERACTION BETWEEN PNIPAAm MODIFIED SILICON SURFACES AND PLASMA PROTEINS. <i>Acta Polymerica Sinica</i> , 2011, 011, 537-542.	0.0	2
82	PREPARATION OF BIOACTIVE SURFACES FOR PROMOTING CELL ADHESION. <i>Acta Polymerica Sinica</i> , 2011, 011, 622-627.	0.0	1
83	Interactions of Biomaterial Surfaces with Proteins and Cells. , 2016, , 103-121.		0