

Yong Wang

List of Publications by Year in descending order

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59
papers

2,680
citations

236612

25
h-index

182168

51
g-index

62
all docs

62
docs citations

62
times ranked

3513
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-delivery of drugs and DNA from cationic core-shell nanoparticles self-assembled from a biodegradable copolymer. <i>Nature Materials</i> , 2006, 5, 791-796.	13.3	612
2	Specific binding of aminoglycoside antibiotics to RNA. <i>Chemistry and Biology</i> , 1995, 2, 281-290.	6.2	201
3	Programmable Hydrogels for Controlled Cell Catch and Release Using Hybridized Aptamers and Complementary Sequences. <i>Journal of the American Chemical Society</i> , 2012, 134, 15716-15719.	6.6	132
4	Programmable Release of Multiple Protein Drugs from Aptamer-Functionalized Hydrogels via Nucleic Acid Hybridization. <i>Journal of the American Chemical Society</i> , 2012, 134, 12410-12413.	6.6	118
5	Hydrogel functionalization with DNA aptamers for sustained PDGF-BB release. <i>Chemical Communications</i> , 2010, 46, 1857-1859.	2.2	107
6	Cell adhesion on an artificial extracellular matrix using aptamer-functionalized PEG hydrogels. <i>Biomaterials</i> , 2012, 33, 1353-1362.	5.7	79
7	Aptamer-Functionalized In Situ Injectable Hydrogel for Controlled Protein Release. <i>Biomacromolecules</i> , 2010, 11, 2724-2730.	2.6	75
8	Programmable hydrogels. <i>Biomaterials</i> , 2018, 178, 663-680.	5.7	73
9	Endonuclease-responsive aptamer-functionalized hydrogel coating for sequential catch and release of cancer cells. <i>Biomaterials</i> , 2013, 34, 460-469.	5.7	70
10	DNA-templated synthesis of biomimetic cell wall for nanoencapsulation and protection of mammalian cells. <i>Nature Communications</i> , 2019, 10, 2223.	5.8	64
11	In Situ Synthesis of an Aptamer-Based Polyvalent Antibody Mimic on the Cell Surface for Enhanced Interactions between Immune and Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11892-11897.	7.2	57
12	Aptamer-functionalized superporous hydrogels for sequestration and release of growth factors regulated via molecular recognition. <i>Biomaterials</i> , 2014, 35, 8040-8048.	5.7	56
13	Controlled release of ethacrynic acid from poly(lactide-co-glycolide) films for glaucoma treatment. <i>Biomaterials</i> , 2004, 25, 4279-4285.	5.7	55
14	Polyvalent Display of Biomolecules on Live Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6800-6804.	7.2	54
15	Dual Aptamer-Functionalized in Situ Injectable Fibrin Hydrogel for Promotion of Angiogenesis via Codelivery of Vascular Endothelial Growth Factor and Platelet-Derived Growth Factor-BB. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18123-18132.	4.0	54
16	Affinity hydrogels for controlled protein release using nucleic acid aptamers and complementary oligonucleotides. <i>Biomaterials</i> , 2011, 32, 6839-6849.	5.7	53
17	A Hybrid DNA Aptamer-Dendrimer Nanomaterial for Targeted Cell Labeling. <i>Macromolecular Bioscience</i> , 2009, 9, 831-835.	2.1	51
18	A hybrid particle-hydrogel composite for oligonucleotide-mediated pulsatile protein release. <i>Soft Matter</i> , 2010, 6, 4255.	1.2	46

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19	Chimeric Aptamer-Gelatin Hydrogels as an Extracellular Matrix Mimic for Loading Cells and Growth Factors. <i>Biomacromolecules</i> , 2016, 17, 778-787.	2.6	46
20	Affinity Hydrogels for Protein Delivery. <i>Trends in Pharmacological Sciences</i> , 2021, 42, 300-312.	4.0	41
21	Assembly of Bifunctional Aptamer-Fibrinogen Macromer for VEGF Delivery and Skin Wound Healing. <i>Chemistry of Materials</i> , 2019, 31, 1006-1015.	3.2	40
22	Enhanced Loading and Controlled Release of Antibiotics Using Nucleic Acids As an Antibiotic-Binding Effector in Hydrogels. <i>Biomacromolecules</i> , 2012, 13, 2202-2210.	2.6	39
23	Synthetic DNA for Cell Surface Engineering. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11580-11591.	7.2	34
24	Macroporous Hydrogels for Stable Sequestration and Sustained Release of Vascular Endothelial Growth Factor and Basic Fibroblast Growth Factor Using Nucleic Acid Aptamers. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2382-2390.	2.6	31
25	Aptamer-Based Polyvalent Ligands for Regulated Cell Attachment on the Hydrogel Surface. <i>Biomacromolecules</i> , 2015, 16, 1382-1389.	2.6	29
26	Development of a Dual-Functional Hydrogel Using RGD and Anti-VEGF Aptamer. <i>Macromolecular Bioscience</i> , 2017, 17, 1700201.	2.1	28
27	Aptamer-Functionalized Hydrogel for Self-Programmed Protein Release via Sequential Photoreaction and Hybridization. <i>Chemistry of Materials</i> , 2017, 29, 5850-5857.	3.2	25
28	A Drosera-bioinspired hydrogel for catching and killing cancer cells. <i>Scientific Reports</i> , 2015, 5, 14297.	1.6	24
29	Displacement and hybridization reactions in aptamer-functionalized hydrogels for biomimetic protein release and signal transduction. <i>Chemical Science</i> , 2017, 8, 7306-7311.	3.7	24
30	A Temperature-Responsive Antibody-Like Nanostructure. <i>Biomacromolecules</i> , 2010, 11, 2087-2093.	2.6	23
31	Polymer Microneedle Mediated Local Aptamer Delivery for Blocking the Function of Vascular Endothelial Growth Factor. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3395-3403.	2.6	23
32	Aptamer-Functionalized Fibrin Hydrogel Improves Vascular Endothelial Growth Factor Release Kinetics and Enhances Angiogenesis and Osteogenesis in Critically Sized Cranial Defects. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6152-6160.	2.6	23
33	Polymerization of Affinity Ligands on a Surface for Enhanced Ligand Display and Cell Binding. <i>Biomacromolecules</i> , 2014, 15, 4561-4569.	2.6	21
34	Molecular Encryption and Reconfiguration for Remodeling of Dynamic Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5957-5961.	7.2	19
35	Development of a novel pretargeting system with bifunctional nucleic acid molecules. <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 521-525.	1.0	17
36	Programmable Display of DNA-Protein Chimeras for Controlling Cell-Hydrogel Interactions via Reversible Intermolecular Hybridization. <i>Biomacromolecules</i> , 2013, 14, 1174-1180.	2.6	16

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37	Bioinspired affinity DNA polymers on nanoparticles for drug sequestration and detoxification. <i>Biomaterials</i> , 2014, 35, 9709-9718.	5.7	16
38	Development of hydrogel-like biomaterials via nanoparticle assembly and solid-hydrogel transformation. <i>Journal of Controlled Release</i> , 2020, 318, 185-196.	4.8	16
39	Exogenous Signaling Molecules Released from Aptamer-Functionalized Hydrogels Promote the Survival of Mesenchymal Stem Cell Spheroids. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24599-24610.	4.0	15
40	Psoriasis-associated impairment of CCL27/CCR10-derived regulation leads to IL-17A/IL-22-producing skin T-cell overactivation. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 759-763.e9.	1.5	15
41	Programmed Degradation of Hydrogels with a Double-Locked Domain. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2820-2825.	7.2	14
42	Molecularly Regulated Reversible DNA Polymerization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6657-6661.	7.2	12
43	Synthetic DNA for Cell Surface Engineering. <i>Angewandte Chemie</i> , 2021, 133, 11684-11695.	1.6	12
44	Aptamer-functionalized hydrogels: An emerging class of biomaterials for protein delivery, cell capture, regenerative medicine, and molecular biosensing. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1731.	3.3	12
45	Polyvalent Display of Biomolecules on Live Cells. <i>Angewandte Chemie</i> , 2018, 130, 6916-6920.	1.6	11
46	An aptamer-functionalized hydrogel for controlled protein release: A modeling study. <i>Soft Matter</i> , 2011, 7, 9326.	1.2	10
47	Programmable Imaging Amplification via Nanoparticle-Initiated DNA Polymerization. <i>Small</i> , 2013, 9, 3944-3949.	5.2	10
48	Nanoparticle-Programmed Surface for Drug Release and Cell Regulation via Reversible Hybridization Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4467-4474.	4.0	10
49	Transscleral diffusion of ethacrynic acid and sodium fluorescein. <i>Molecular Vision</i> , 2007, 13, 243-51.	1.1	10
50	Synthetic DNA for Cell Surface Engineering: Experimental Comparison between Click Conjugation and Lipid Insertion in Terms of Cell Viability, Engineering Efficiency, and Displaying Stability. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3900-3909.	4.0	10
51	Programmable hydrogels for the controlled release of therapeutic nucleic acid aptamers via reversible DNA hybridization. <i>Chemical Communications</i> , 2013, 49, 9600.	2.2	9
52	Ultrasensitive detection of small biomolecules using aptamer-based molecular recognition and nanoparticle counting. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114023.	5.3	9
53	CCL27 is a crucial regulator of immune homeostasis of the skin and mucosal tissues. <i>IScience</i> , 2022, 25, 104426.	1.9	8
54	In Situ Synthesis of an Aptamer-Based Polyvalent Antibody Mimic on the Cell Surface for Enhanced Interactions between Immune and Cancer Cells. <i>Angewandte Chemie</i> , 2020, 132, 11990-11995.	1.6	6

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55	Molecularly Regulated Reversible DNA Polymerization. <i>Angewandte Chemie</i> , 2016, 128, 6769-6773.	1.6	5
56	Development of a Biomimetic Extracellular Matrix with Functions of Protein Sequestration and Cell Attachment Using Dual Aptamer-Functionalized Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1279-1289.	2.6	4
57	Bidirectional Supramolecular Display and Signal Amplification on the Surface of Living Cells. <i>Biomacromolecules</i> , 2022, 23, 1403-1412.	2.6	1
58	Innentitelbild: Polyvalent Display of Biomolecules on Live Cells (<i>Angew. Chem.</i> 23/2018). <i>Angewandte Chemie</i> , 2018, 130, 6820-6820.	1.6	0
59	Programmed Degradation of Hydrogels with a Double-locked Domain. <i>Angewandte Chemie</i> , 2019, 131, 2846-2851.	1.6	0