

Xingyu Jiang

List of Publications by Year in descending order

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403
papers

31,374
citations

3721

89
h-index

6454

157
g-index

429
all docs

429
docs citations

429
times ranked

33361
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft Lithography in Biology and Biochemistry. Annual Review of Biomedical Engineering, 2001, 3, 335-373.	5.7	2,380
2	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
3	The molecular mechanism of action of bactericidal gold nanoparticles on Escherichia coli. Biomaterials, 2012, 33, 2327-2333.	5.7	670
4	Small Molecule-Capped Gold Nanoparticles as Potent Antibacterial Agents That Target Gram-Negative Bacteria. Journal of the American Chemical Society, 2010, 132, 12349-12356.	6.6	528
5	Hydrothermal synthesis of highly fluorescent carbon nanoparticles from sodium citrate and their use for the detection of mercury ions. Carbon, 2013, 52, 583-589.	5.4	483
6	Directing cell migration with asymmetric micropatterns. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 975-978.	3.3	428
7	Gradients of substrate-bound laminin orient axonal specification of neurons. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12542-12547.	3.3	414
8	Visual Detection of Copper(II) by Azide- and Alkyne-Functionalized Gold Nanoparticles Using Click Chemistry. Angewandte Chemie - International Edition, 2008, 47, 7454-7456.	7.2	408
9	Gold nanoparticles for the colorimetric and fluorescent detection of ions and small organic molecules. Nanoscale, 2011, 3, 1421.	2.8	392
10	A Highly Sensitive, Dual-Readout Assay Based on Gold Nanoparticles for Organophosphorus and Carbamate Pesticides. Analytical Chemistry, 2012, 84, 4185-4191.	3.2	389
11	Tunable Rigidity of (Polymeric Core)-(Lipid Shell) Nanoparticles for Regulated Cellular Uptake. Advanced Materials, 2015, 27, 1402-1407.	11.1	383
12	Surface Modification of Gold Nanoparticles with Small Molecules for Biochemical Analysis. Accounts of Chemical Research, 2017, 50, 310-319.	7.6	380
13	Compatibility of Mammalian Cells on Surfaces of Poly(dimethylsiloxane). Langmuir, 2004, 20, 11684-11691.	1.6	323
14	Highly Sensitive, Colorimetric Detection of Mercury(II) in Aqueous Media by Quaternary Ammonium Group-Capped Gold Nanoparticles at Room Temperature. Analytical Chemistry, 2010, 82, 9606-9610.	3.2	315
15	Pharmaceutical Intermediate-Modified Gold Nanoparticles: Against Multidrug-Resistant Bacteria and Wound-Healing Application via an Electrospun Scaffold. ACS Nano, 2017, 11, 5737-5745.	7.3	307
16	Thermo-triggered Release of CRISPR-Cas9 System by Lipid-Encapsulated Gold Nanoparticles for Tumor Therapy. Angewandte Chemie - International Edition, 2018, 57, 1491-1496.	7.2	306
17	Colorimetric detection of mercury, lead and copper ions simultaneously using protein-functionalized gold nanoparticles. Biosensors and Bioelectronics, 2011, 26, 4064-4069.	5.3	295
18	Point-of-care biochemical assays using gold nanoparticle-implemented microfluidics. Chemical Society Reviews, 2014, 43, 6239-6253.	18.7	290

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19	Loop-Mediated Isothermal Amplification Integrated on Microfluidic Chips for Point-of-Care Quantitative Detection of Pathogens. <i>Analytical Chemistry</i> , 2010, 82, 3002-3006.	3.2	260
20	Stereodivergent Allylic Substitutions with Aryl Acetic Acid Esters by Synergistic Iridium and Lewis Base Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 87-90.	6.6	250
21	Gold nanoclusters-assisted delivery of NGF siRNA for effective treatment of pancreatic cancer. <i>Nature Communications</i> , 2017, 8, 15130.	5.8	246
22	Electrochemical Desorption of Self-Assembled Monolayers Noninvasively Releases Patterned Cells from Geometrical Confinements. <i>Journal of the American Chemical Society</i> , 2003, 125, 2366-2367.	6.6	243
23	Double spiral microchannel for label-free tumor cell separation and enrichment. <i>Lab on A Chip</i> , 2012, 12, 3952.	3.1	242
24	Geometric Determinants of Directional Cell Motility Revealed Using Microcontact Printing. <i>Langmuir</i> , 2003, 19, 1611-1617.	1.6	238
25	Using Azobenzene-Embedded Self-Assembled Monolayers To Photochemically Control Cell Adhesion Reversibly. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4406-4408.	7.2	237
26	Resettable, Multi-Readout Logic Gates Based on Controllably Reversible Aggregation of Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4103-4107.	7.2	229
27	A Strategy for Depositing Different Types of Cells in Three Dimensions to Mimic Tubular Structures in Tissues. <i>Advanced Materials</i> , 2012, 24, 890-896.	11.1	222
28	Tuning the Composition of AuPt Bimetallic Nanoparticles for Antibacterial Application. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8127-8131.	7.2	208
29	Copper-Mediated Amplification Allows Readout of Immunoassays by the Naked Eye. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3442-3445.	7.2	198
30	Stereodivergent Allylation of Azaaryl Acetamides and Acetates by Synergistic Iridium and Copper Catalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 1239-1242.	6.6	195
31	Surface chemistry of gold nanoparticles for health-related applications. <i>Chemical Science</i> , 2020, 11, 923-936.	3.7	191
32	Why microfluidics? Merits and trends in chemical synthesis. <i>Lab on A Chip</i> , 2017, 17, 3960-3978.	3.1	190
33	Gold Nanoclusters for Targeting Methicillin-Resistant <i>Staphylococcus aureus</i> In Vivo. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3958-3962.	7.2	190
34	Label-Free Colorimetric Detection of Cadmium Ions in Rice Samples Using Gold Nanoparticles. <i>Analytical Chemistry</i> , 2014, 86, 8530-8534.	3.2	188
35	Controlling Mammalian Cell Spreading and Cytoskeletal Arrangement with Conveniently Fabricated Continuous Wavy Features on Poly(dimethylsiloxane). <i>Langmuir</i> , 2002, 18, 3273-3280.	1.6	185
36	One-Step Detection of Pathogens and Viruses: Combining Magnetic Relaxation Switching and Magnetic Separation. <i>ACS Nano</i> , 2015, 9, 3184-3191.	7.3	182

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37	A Plasmonic Nanosensor for Immunoassay via Enzyme-Triggered Click Chemistry. ACS Nano, 2014, 8, 12741-12747.	7.3	176
38	Microfluidics for Manipulating Cells. Small, 2013, 9, 9-21.	5.2	175
39	Nanomaterials for Ultrasensitive Protein Detection. Advanced Materials, 2013, 25, 3802-3819.	11.1	174
40	Facile, One-Pot Synthesis, and Antibacterial Activity of Mesoporous Silica Nanoparticles Decorated with Well-Dispersed Silver Nanoparticles. ACS Applied Materials & Interfaces, 2014, 6, 12038-12045.	4.0	172
41	Synergy of Non-antibiotic Drugs and Pyrimidinethiol on Gold Nanoparticles against Superbugs. Journal of the American Chemical Society, 2013, 135, 12940-12943.	6.6	170
42	Genome Editing for Cancer Therapy: Delivery of Cas9 Protein/sgRNA Plasmid via a Gold Nanocluster/Lipid Core-Shell Nanocarrier. Advanced Science, 2017, 4, 1700175.	5.6	166
43	A Miniaturized, Parallel, Serially Diluted Immunoassay for Analyzing Multiple Antigens. Journal of the American Chemical Society, 2003, 125, 5294-5295.	6.6	164
44	Microfluidic Synthesis of Hybrid Nanoparticles with Controlled Lipid Layers: Understanding Flexibility-Regulated Cell-Nanoparticle Interaction. ACS Nano, 2015, 9, 9912-9921.	7.3	163
45	Multiple strategies to activate gold nanoparticles as antibiotics. Nanoscale, 2013, 5, 8340.	2.8	157
46	A Peptide-Based Nanofibrous Hydrogel as a Promising DNA Nanovector for Optimizing the Efficacy of HIV Vaccine. Nano Letters, 2014, 14, 1439-1445.	4.5	157
47	A General Method for Patterning Gradients of Biomolecules on Surfaces Using Microfluidic Networks. Analytical Chemistry, 2005, 77, 2338-2347.	3.2	156
48	Inertial focusing of spherical particles in rectangular microchannels over a wide range of Reynolds numbers. Lab on A Chip, 2015, 15, 1168-1177.	3.1	150
49	Electrospun Nanofibrous Membranes: A Novel Solid Substrate for Microfluidic Immunoassays for HIV. Advanced Materials, 2008, 20, 4770-4775.	11.1	149
50	Identification of Bacteria in Water by a Fluorescent Array. Angewandte Chemie - International Edition, 2014, 53, 13734-13739.	7.2	149
51	Nanocellulose-Based Antibacterial Materials. Advanced Healthcare Materials, 2018, 7, e1800334.	3.9	149
52	In situ deposition of a personalized nanofibrous dressing via a handy electrospinning device for skin wound care. Nanoscale, 2016, 8, 3482-3488.	2.8	146
53	Rapid Fabrication of Self-Healing, Conductive, and Injectable Gel as Dressings for Healing Wounds in Stretchable Parts of the Body. Advanced Functional Materials, 2020, 30, 2002370.	7.8	146
54	A Method for Patterning Multiple Types of Cells by Using Electrochemical Desorption of Self-Assembled Monolayers within Microfluidic Channels. Angewandte Chemie - International Edition, 2007, 46, 1094-1096.	7.2	141

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55	Synergistic enzymatic and bioorthogonal reactions for selective prodrug activation in living systems. <i>Nature Communications</i> , 2018, 9, 5032.	5.8	141
56	A microfluidic flow-stretch chip for investigating blood vessel biomechanics. <i>Lab on A Chip</i> , 2012, 12, 3441.	3.1	134
57	Microfluidic Synthesis of Rigid Nanovesicles for Hydrophilic Reagents Delivery. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3952-3956.	7.2	134
58	Predicting Viruses Accurately by a Multiplex Microfluidic Loop-Mediated Isothermal Amplification Chip. <i>Analytical Chemistry</i> , 2011, 83, 690-695.	3.2	133
59	Lipid nanoparticle-mediated efficient delivery of CRISPR/Cas9 for tumor therapy. <i>NPG Asia Materials</i> , 2017, 9, e441-e441.	3.8	132
60	Fabrication of Necklace-like Structures via Electrospinning. <i>Langmuir</i> , 2010, 26, 1186-1190.	1.6	129
61	Size-based hydrodynamic rare tumor cell separation in curved microfluidic channels. <i>Biomicrofluidics</i> , 2013, 7, 011802.	1.2	129
62	Quantitative Detection of MicroRNA in One Step via Next Generation Magnetic Relaxation Switch Sensing. <i>ACS Nano</i> , 2016, 10, 6685-6692.	7.3	127
63	Barcoded point-of-care bioassays. <i>Chemical Society Reviews</i> , 2019, 48, 850-884.	18.7	120
64	Composites of Bacterial Cellulose and Small Molecule-Decorated Gold Nanoparticles for Treating Gram-Negative Bacteria-Infected Wounds. <i>Small</i> , 2017, 13, 1700130.	5.2	119
65	Printable Metal-Polymer Conductors for Highly Stretchable Bio-Devices. <i>IScience</i> , 2018, 4, 302-311.	1.9	119
66	Titanium Incorporation into Zr-Porphyrinic Metal-Organic Frameworks with Enhanced Antibacterial Activity against Multidrug-Resistant Pathogens. <i>Small</i> , 2020, 16, e1906240.	5.2	116
67	Detection of the nanomolar level of total Cr(III) and Cr(VI) by functionalized gold nanoparticles and a smartphone with the assistance of theoretical calculation models. <i>Nanoscale</i> , 2015, 7, 2042-2049.	2.8	113
68	Materials for Microfluidic Immunoassays: A Review. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601403.	3.9	112
69	Multilayered electronic transfer tattoo that can enable the crease amplification effect. <i>Science Advances</i> , 2021, 7, .	4.7	112
70	Stable fluorescent gold nanoparticles for detection of Cu ²⁺ with good sensitivity and selectivity. <i>Analyst</i> , 2012, 137, 301-304.	1.7	109
71	Recent advances in electrospinning technology and biomedical applications of electrospun fibers. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2369.	2.9	108
72	Bacterial cellulose-hyaluronan nanocomposite biomaterials as wound dressings for severe skin injury repair. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3498-3507.	2.9	108

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73	Evaluation of the Effect of the Structure of Bacterial Cellulose on Full Thickness Skin Wound Repair on a Microfluidic Chip. <i>Biomacromolecules</i> , 2015, 16, 780-789.	2.6	107
74	Microfluidics for producing poly (lactic-co-glycolic acid)-based pharmaceutical nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2018, 128, 101-114.	6.6	107
75	Triple-Targeting Delivery of CRISPR/Cas9 To Reduce the Risk of Cardiovascular Diseases. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12404-12408.	7.2	107
76	Microfluidics for Biomedical Analysis. <i>Small Methods</i> , 2020, 4, 1900451.	4.6	107
77	Microfluidics-mediated assembly of functional nanoparticles for cancer-related pharmaceutical applications. <i>Nanoscale</i> , 2016, 8, 12430-12443.	2.8	105
78	A Bifunctional Aggregation-Induced Emission Luminogen for Monitoring and Killing of Multidrug-Resistant Bacteria. <i>Advanced Functional Materials</i> , 2018, 28, 1804632.	7.8	105
79	Self-Adjusting, Polymeric Multilayered Roll that can Keep the Shapes of the Blood Vessel Scaffolds during Biodegradation. <i>Advanced Materials</i> , 2017, 29, 1700171.	11.1	104
80	A simple PDMS-based microfluidic channel design that removes bubbles for long-term on-chip culture of mammalian cells. <i>Lab on A Chip</i> , 2010, 10, 2906.	3.1	102
81	Microfluidics-Based Biomaterials and Biodevices. <i>Advanced Materials</i> , 2019, 31, e1805033.	11.1	102
82	Label-Free Isolation and mRNA Detection of Circulating Tumor Cells from Patients with Metastatic Lung Cancer for Disease Diagnosis and Monitoring Therapeutic Efficacy. <i>Analytical Chemistry</i> , 2015, 87, 11893-11900.	3.2	101
83	Microengineering the Environment of Mammalian Cells in Culture. <i>MRS Bulletin</i> , 2005, 30, 194-201.	1.7	100
84	Point-of-Care Multiplexed Assays of Nucleic Acids Using Microcapillary-based Loop-Mediated Isothermal Amplification. <i>Analytical Chemistry</i> , 2014, 86, 7057-7062.	3.2	100
85	Dynamic, self-assembled aggregates of magnetized, millimeter-sized objects rotating at the liquid-air interface: Macroscopic, two-dimensional classical artificial atoms and molecules. <i>Physical Review E</i> , 2001, 64, 011603.	0.8	95
86	Near-Infrared Light-Activated Phototherapy by Gold Nanoclusters for Dispersing Biofilms. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9041-9049.	4.0	95
87	Engineering a 3D vascular network in hydrogel for mimicking a nephron. <i>Lab on A Chip</i> , 2013, 13, 1612.	3.1	93
88	A dual-readout chemiluminescent-gold lateral flow test for multiplex and ultrasensitive detection of disease biomarkers in real samples. <i>Nanoscale</i> , 2016, 8, 15205-15212.	2.8	93
89	An automated and portable microfluidic chemiluminescence immunoassay for quantitative detection of biomarkers. <i>Lab on A Chip</i> , 2017, 17, 2225-2234.	3.1	93
90	Novel nanomedicines to overcome cancer multidrug resistance. <i>Drug Resistance Updates</i> , 2021, 58, 100777.	6.5	93

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91	Functionalized Gold Nanoclusters Identify Highly Reactive Oxygen Species in Living Organisms. <i>Advanced Functional Materials</i> , 2018, 28, 1702026.	7.8	92
92	Bio-functional electrospun nanomaterials: From topology design to biological applications. <i>Progress in Polymer Science</i> , 2019, 91, 1-28.	11.8	92
93	Integrated Microcapillary for Sample-to-Answer Nucleic Acid Pretreatment, Amplification, and Detection. <i>Analytical Chemistry</i> , 2014, 86, 10461-10466.	3.2	91
94	Patterning Mammalian Cells for Modeling Three Types of Naturally Occurring Cell-Cell Interactions. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8303-8305.	7.2	90
95	A Dispersion-Dominated Chromogenic Strategy for Colorimetric Sensing of Glutathione at the Nanomolar Level Using Gold Nanoparticles. <i>Small</i> , 2015, 11, 5510-5514.	5.2	90
96	Iridium-Catalyzed Diastereoselective and Enantioselective Allylic Substitutions with Acyclic α -Alkoxy Ketones. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5819-5823.	7.2	90
97	The Density of Surface Coating Can Contribute to Different Antibacterial Activities of Gold Nanoparticles. <i>Nano Letters</i> , 2020, 20, 5036-5042.	4.5	90
98	Highly Stretchable and Biocompatible Liquid Metal-Elastomer Conductors for Self-Healing Electronics. <i>Small</i> , 2020, 16, e2005336.	5.2	89
99	A Highly Sensitive Gold-Nanoparticle-Based Assay for Acetylcholinesterase in Cerebrospinal Fluid of Transgenic Mice with Alzheimer's Disease. <i>Advanced Healthcare Materials</i> , 2012, 1, 90-95.	3.9	88
100	Reagents-Loaded, Automated Assay that Integrates Recombinase-Aided Amplification and Cas12a Nucleic Acid Detection for a Point-of-Care Test. <i>Analytical Chemistry</i> , 2020, 92, 14846-14852.	3.2	86
101	A microfluidic origami chip for synthesis of functionalized polymeric nanoparticles. <i>Nanoscale</i> , 2013, 5, 5262.	2.8	85
102	Mussel-Inspired Anchoring for Patterning Cells Using Polydopamine. <i>Langmuir</i> , 2012, 28, 2131-2136.	1.6	84
103	Microfluidic based high throughput synthesis of lipid-polymer hybrid nanoparticles with tunable diameters. <i>Biomicrofluidics</i> , 2015, 9, 052604.	1.2	84
104	Electrospinning of Poly(dimethylsiloxane)/Poly(methyl methacrylate) Nanofibrous Membrane: Fabrication and Application in Protein Microarrays. <i>Biomacromolecules</i> , 2009, 10, 3335-3340.	2.6	83
105	Horseradish Peroxidase-Mediated, Iodide-Catalyzed Cascade Reaction for Plasmonic Immunoassays. <i>Analytical Chemistry</i> , 2015, 87, 10688-10692.	3.2	83
106	Click Chemistry-Mediated Nanosensors for Biochemical Assays. <i>Theranostics</i> , 2016, 6, 969-985.	4.6	83
107	Targeted tumor delivery and controlled release of neuronal drugs with ferritin nanoparticles to regulate pancreatic cancer progression. <i>Journal of Controlled Release</i> , 2016, 232, 131-142.	4.8	83
108	Nanocrystalline Cellulose-Assisted Generation of Silver Nanoparticles for Nonenzymatic Glucose Detection and Antibacterial Agent. <i>Biomacromolecules</i> , 2016, 17, 2472-2478.	2.6	83

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109	Quantification of Proteins by Functionalized Gold Nanoparticles Using Click Chemistry. <i>Analytical Chemistry</i> , 2012, 84, 4267-4270.	3.2	82
110	Modular microfluidics for gradient generation. <i>Lab on A Chip</i> , 2008, 8, 1536.	3.1	81
111	Precise Control of Cell Adhesion by Combination of Surface Chemistry and Soft Lithography. <i>Advanced Healthcare Materials</i> , 2013, 2, 95-108.	3.9	81
112	Water-soluble nanocrystalline cellulose films with highly transparent and oxygen barrier properties. <i>Nanoscale</i> , 2016, 8, 973-978.	2.8	81
113	Hand-powered centrifugal microfluidic platform inspired by the spinning top for sample-to-answer diagnostics of nucleic acids. <i>Lab on A Chip</i> , 2018, 18, 610-619.	3.1	81
114	Construction of Small-Diameter Vascular Graft by Shape-Memory and Self-Rolling Bacterial Cellulose Membrane. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601343.	3.9	79
115	2,3-Dialdehyde nanofibrillated cellulose as a potential material for the treatment of MRSA infection. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7876-7884.	2.9	79
116	Indole Derivative-Capped Gold Nanoparticles as an Effective Bactericide in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29398-29406.	4.0	78
117	Airflow-directed in situ electrospinning of a medical glue of cyanoacrylate for rapid hemostasis in liver resection. <i>Nanoscale</i> , 2014, 6, 7792.	2.8	77
118	Controllable Assembly of Enzymes for Multiplexed Lab-on-a-Chip Bioassays with a Tunable Detection Range. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7503-7507.	7.2	77
119	A portable and integrated nucleic acid amplification microfluidic chip for identifying bacteria. <i>Lab on A Chip</i> , 2012, 12, 1495.	3.1	76
120	A microfluidic tubing method and its application for controlled synthesis of polymeric nanoparticles. <i>Lab on A Chip</i> , 2014, 14, 1673-1677.	3.1	75
121	A Self-Contained Chemiluminescent Lateral Flow Assay for Point-of-Care Testing. <i>Analytical Chemistry</i> , 2018, 90, 9132-9137.	3.2	73
122	Gold Nanoparticles Cure Bacterial Infection with Benefit to Intestinal Microflora. <i>ACS Nano</i> , 2019, 13, 5002-5014.	7.3	73
123	Silver(i)-glutathione biocoordination polymer hydrogel: effective antibacterial activity and improved cytocompatibility. <i>Journal of Materials Chemistry</i> , 2011, 21, 19214.	6.7	72
124	Double-Enzymes-Mediated Bioluminescent Sensor for Quantitative and Ultrasensitive Point-of-Care Testing. <i>Analytical Chemistry</i> , 2017, 89, 5422-5427.	3.2	72
125	Large-Scale Fabrication of Highly Elastic Conductors on a Broad Range of Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7138-7147.	4.0	72
126	Bright Aggregation-Induced Emission Nanoparticles for Two-Photon Imaging and Localized Compound Therapy of Cancers. <i>ACS Nano</i> , 2020, 14, 16840-16853.	7.3	72

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127	Universal and high-fidelity DNA single nucleotide polymorphism detection based on a CRISPR/Cas12a biochip. <i>Chemical Science</i> , 2021, 12, 4455-4462.	3.7	72
128	A Strategy for the Construction of Controlled, Three-Dimensional, Multilayered, Tissue-Like Structures. <i>Advanced Functional Materials</i> , 2013, 23, 42-46.	7.8	71
129	Skiving stacked sheets of paper into test paper for rapid and multiplexed assay. <i>Science Advances</i> , 2017, 3, eaao4862.	4.7	71
130	An Early-Stage Atherosclerosis Research Model Based on Microfluidics. <i>Small</i> , 2016, 12, 2022-2034.	5.2	67
131	Printed Stretchable Liquid Metal Electrode Arrays for In Vivo Neural Recording. <i>Small</i> , 2021, 17, e2006612.	5.2	67
132	Microfluidic Western Blot. <i>Analytical Chemistry</i> , 2010, 82, 3974-3976.	3.2	66
133	Analysis of Influenza Virus Receptor Specificity Using Glycan-Functionalized Gold Nanoparticles. <i>ACS Nano</i> , 2014, 8, 4600-4607.	7.3	66
134	Gene regulation with carbon-based siRNA conjugates for cancer therapy. <i>Biomaterials</i> , 2016, 104, 269-278.	5.7	66
135	Streptavidin-biotin-peroxidase nanocomplex-amplified microfluidics immunoassays for simultaneous detection of inflammatory biomarkers. <i>Analytica Chimica Acta</i> , 2017, 982, 138-147.	2.6	66
136	Enzymatic Assay for Cu(II) with Horseradish Peroxidase and Its Application in Colorimetric Logic Gate. <i>Analytical Chemistry</i> , 2013, 85, 7029-7032.	3.2	65
137	Adsorbed Tween 80 is unique in its ability to improve the stability of gold nanoparticles in solutions of biomolecules. <i>Nanoscale</i> , 2010, 2, 2114.	2.8	62
138	Highly Robust, Recyclable Displacement Assay for Mercuric Ions in Aqueous Solutions and Living Cells. <i>ACS Nano</i> , 2012, 6, 10999-11008.	7.3	62
139	Gold nanorods core/AgPt alloy nanodots shell: A novel potent antibacterial nanostructure. <i>Nano Research</i> , 2013, 6, 822-835.	5.8	62
140	Highly sensitive colorimetric detection of organophosphate pesticides using copper catalyzed click chemistry. <i>Talanta</i> , 2013, 103, 110-115.	2.9	62
141	Bioeffects of Inhaled Nanoplastics on Neurons and Alteration of Animal Behaviors through Deposition in the Brain. <i>Nano Letters</i> , 2022, 22, 1091-1099.	4.5	62
142	Culturing Primary Human Osteoblasts on Electrospun Poly(lactic-co-glycolic acid) and Poly(lactic-co-glycolic acid)/Nanohydroxyapatite Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5921-5926.	4.0	61
143	N-Heterocyclic molecule-capped gold nanoparticles as effective antibiotics against multi-drug resistant bacteria. <i>Nanoscale</i> , 2016, 8, 13223-13227.	2.8	60
144	Bioinspired membrane provides periosteum-mimetic microenvironment for accelerating vascularized bone regeneration. <i>Biomaterials</i> , 2021, 268, 120561.	5.7	60

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145	Facile Preparation of Ag ₂ S/Ag Semiconductor/Metal Heteronanostructures with Remarkable Antibacterial Properties. <i>ChemPhysChem</i> , 2012, 13, 2531-2535.	1.0	59
146	Wet-Adhesive Elastomer for Liquid Metal-Based Conformal Epidermal Electronics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	59
147	Bacterial Cellulose as a Supersoft Neural Interfacing Substrate. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33049-33059.	4.0	58
148	Electronic Blood Vessel. <i>Matter</i> , 2020, 3, 1664-1684.	5.0	58
149	A General Approach for Patterning Multiple Types of Cells Using Holey PDMS Membranes and Microfluidic Channels. <i>Advanced Functional Materials</i> , 2010, 20, 3715-3720.	7.8	57
150	A stretching device for imaging real-time molecular dynamics of live cells adhering to elastic membranes on inverted microscopes during the entire process of the stretch. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 288.	0.6	57
151	Incorporation of electrospun nanofibrous PVDF membranes into a microfluidic chip assembled by PDMS and scotch tape for immunoassays. <i>Electrophoresis</i> , 2009, 30, 3269-3275.	1.3	56
152	Biomimetic Collagen Nanofibrous Materials for Bone Tissue Engineering. <i>Advanced Engineering Materials</i> , 2010, 12, B451.	1.6	56
153	One-Step Microfluidic Synthesis of Nanocomplex with Tunable Rigidity and Acid-Switchable Surface Charge for Overcoming Drug Resistance. <i>Small</i> , 2017, 13, 1603109.	5.2	56
154	Inertial migration of deformable droplets in a microchannel. <i>Physics of Fluids</i> , 2014, 26, .	1.6	55
155	High-throughput sample-to-answer detection of DNA/RNA in crude samples within functionalized micro-pipette tips. <i>Biosensors and Bioelectronics</i> , 2016, 75, 28-33.	5.3	55
156	Deploying Gold Nanomaterials in Combating Multi-Drug-Resistant Bacteria. <i>ACS Nano</i> , 2022, 16, 10066-10087.	7.3	55
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