

# Mengsu Yang

## List of Publications by Year in descending order

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231  
papers

11,004  
citations

28190

55  
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40881

93  
g-index

237  
all docs

237  
docs citations

237  
times ranked

14678  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Ferroptosis Inducers for Cancer Therapy. <i>Advanced Materials</i> , 2019, 31, e1904197.	11.1	938
2	Microfluidics technology for manipulation and analysis of biological cells. <i>Analytica Chimica Acta</i> , 2006, 560, 1-23.	2.6	425
3	Gold Nanoparticles Promote Osteogenic Differentiation of Mesenchymal Stem Cells through p38 MAPK Pathway. <i>ACS Nano</i> , 2010, 4, 6439-6448.	7.3	375
4	A dual-mode nanosensor based on carbon quantum dots and gold nanoparticles for discriminative detection of glutathione in human plasma. <i>Biosensors and Bioelectronics</i> , 2014, 56, 39-45.	5.3	278
5	Association of Vimentin overexpression and hepatocellular carcinoma metastasis. <i>Oncogene</i> , 2004, 23, 298-302.	2.6	205
6	cDNA Microarray Analysis of Gene Expression Profiles in Human Fibroblast Cells Irradiated with Red Light. <i>Journal of Investigative Dermatology</i> , 2003, 120, 849-857.	0.3	198
7	Reversal of multidrug resistance in cancer cells by pyranocoumarins isolated from <i>Radix Peucedani</i> . <i>European Journal of Pharmacology</i> , 2003, 473, 9-17.	1.7	196
8	Cell Adhesion and Spreading Behavior on Vertically Aligned Silicon Nanowire Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 30-34.	4.0	176
9	Cell Docking and On-Chip Monitoring of Cellular Reactions with a Controlled Concentration Gradient on a Microfluidic Device. <i>Analytical Chemistry</i> , 2002, 74, 3991-4001.	3.2	169
10	Inhibition of Proliferation and Differentiation of Mesenchymal Stem Cells by Carboxylated Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 2185-2195.	7.3	169
11	Genosensor technology and the detection of interfacial nucleic acid chemistry. <i>Analytica Chimica Acta</i> , 1997, 346, 259-275.	2.6	158
12	Multiple chemical information from the thickness shear mode acoustic wave sensor in the liquid phase. <i>Analytical Chemistry</i> , 1993, 65, 1158-1168.	3.2	156
13	Interfacial properties and the response of the thickness-shear-mode acoustic wave sensor in liquids. <i>Langmuir</i> , 1993, 9, 802-811.	1.6	151
14	COOH-Terminal Truncated HBV X Protein Plays Key Role in Hepatocarcinogenesis. <i>Clinical Cancer Research</i> , 2008, 14, 5061-5068.	3.2	145
15	DNA Binding and Cytotoxicity of Ruthenium(II) and Rhenium(I) Complexes of 2-Amino-4-phenylamino-6-(2-pyridyl)-1,3,5-triazine. <i>Inorganic Chemistry</i> , 2007, 46, 740-749.	1.9	138
16	Clusterin plays an important role in hepatocellular carcinoma metastasis. <i>Oncogene</i> , 2006, 25, 1242-1250.	2.6	134
17	Effects of total flavonoids and flavonol glycosides from <i>Epimedium koreanum</i> Nakai on the proliferation and differentiation of primary osteoblasts. <i>Phytomedicine</i> , 2008, 15, 55-61.	2.3	127
18	A Smartphone-Based Sensing System for On-Site Quantitation of Multiple Heavy Metal Ions Using Fluorescent Carbon Nanodots-Based Microarrays. <i>ACS Sensors</i> , 2020, 5, 870-878.	4.0	127

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19	Adsorption Kinetics and Ligand-Binding Properties of Thiol-Modified Double-Stranded DNA on a Gold Surface. <i>Langmuir</i> , 1998, 14, 6121-6129.	1.6	126
20	Au Nanoparticles Decorated TiO <sub>2</sub> Nanotube Arrays as a Recyclable Sensor for Photoenhanced Electrochemical Detection of Bisphenol A. <i>Environmental Science &amp; Technology</i> , 2016, 50, 4430-4438.	4.6	124
21	Honokiol inhibits TNF- $\alpha$ -stimulated NF- $\kappa$ B activation and NF- $\kappa$ B-regulated gene expression through suppression of IKK activation. <i>Biochemical Pharmacology</i> , 2005, 70, 1443-1457.	2.0	123
22	Gold nanoparticles stimulate differentiation and mineralization of primary osteoblasts through the ERK/MAPK signaling pathway. <i>Materials Science and Engineering C</i> , 2014, 42, 70-77.	3.8	108
23	Inhibitory actions of genistein in human breast cancer (MCF-7) cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2003, 1638, 187-196.	1.8	107
24	Water soluble luminescent platinum terpyridine complexes with glycosylated acetylde and arylacetylde ligands: photoluminescent properties and cytotoxicities. <i>Chemical Communications</i> , 2005, , 4675.	2.2	106
25	Syntheses of Ruthenium(II) Quinonediimine Complexes of Cyclam and Characterization of Their DNA-Binding Activities and Cytotoxicity. <i>Inorganic Chemistry</i> , 2002, 41, 3161-3171.	1.9	104
26	Platinum(II) Complexes of Dipyridophenazine as Metallointercalators for DNA and Potent Cytotoxic Agents against Carcinoma Cell Lines. <i>Chemistry - A European Journal</i> , 1999, 5, 3350-3356.	1.7	100
27	Optical and electrochemical detection techniques for cell-based microfluidic systems. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 1259-1268.	1.9	100
28	Acoustic network analysis as a novel technique for studying protein adsorption and denaturation at surfaces. <i>Analytical Chemistry</i> , 1993, 65, 3713-3716.	3.2	98
29	Proteomic and transcriptomic study on the action of a cytotoxic saponin (Polyphyllin D): Induction of endoplasmic reticulum stress and mitochondria-mediated apoptotic pathways. <i>Proteomics</i> , 2008, 8, 3105-3117.	1.3	94
30	Pattern recognition techniques for the emerging field of bioinformatics: A review. <i>Pattern Recognition</i> , 2005, 38, 2055-2073.	5.1	93
31	Detection of cancer biomarkers by piezoelectric biosensor using PZT ceramic resonator as the transducer. <i>Biosensors and Bioelectronics</i> , 2013, 46, 155-161.	5.3	88
32	&lt;p&gt;Inhibition of Glioma Cellsâ€™ Proliferation by Doxorubicin-Loaded Exosomes via Microfluidics&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 8331-8343.	3.3	87
33	Surface morphology and the response of the thickness-shear mode acoustic wave sensor in liquids. <i>Langmuir</i> , 1993, 9, 1990-1994.	1.6	86
34	Cluster Analysis of Gene Expression Data Based on Self-Splitting and Merging Competitive Learning. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2004, 8, 5-15.	3.6	85
35	Targeted destruction of cancer stem cells using multifunctional magnetic nanoparticles that enable combined hyperthermia and chemotherapy. <i>Theranostics</i> , 2020, 10, 1181-1196.	4.6	81
36	TGF $\beta$ /BMP signaling pathway is involved in cerium-promoted osteogenic differentiation of mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 1105-1114.	1.2	77

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37	Effect of zinc ion on the osteogenic and adipogenic differentiation of mouse primary bone marrow stromal cells and the adipocytic trans-differentiation of mouse primary osteoblasts. <i>Journal of Trace Elements in Medicine and Biology</i> , 2007, 21, 84-91.	1.5	75
38	DB-Curve: a novel 2D method of DNA sequence visualization and representation. <i>Chemical Physics Letters</i> , 2003, 367, 170-176.	1.2	74
39	Hypoxia induces the activation of human hepatic stellate cells LX-2 through TGF- $\beta^2$ signaling pathway. <i>FEBS Letters</i> , 2007, 581, 203-210.	1.3	72
40	Methyl protodioscin induces G2/M cell cycle arrest and apoptosis in HepG2 liver cancer cells. <i>Cancer Letters</i> , 2006, 241, 102-109.	3.2	70
41	Recent advances in microfluidic technology for manipulation and analysis of biological cells (2007-2017). <i>Analytica Chimica Acta</i> , 2018, 1044, 29-65.	2.6	69
42	Pyranocoumarins Isolated from <i>Peucedanum praeruptorum</i> as Differentiation Inducers in Human Leukemic HL-60 Cells. <i>Planta Medica</i> , 2003, 69, 223-229.	0.7	68
43	Silicon nanowires for high-sensitivity glucose detection. <i>Applied Physics Letters</i> , 2006, 88, 213104.	1.5	68
44	A surface-enhanced Raman spectroscopy substrate for highly sensitive label-free immunoassay. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	67
45	Direct Measurement of Thermodynamic and Kinetic Parameters of DNA Triple Helix Formation by Fluorescence Spectroscopy. <i>Biochemistry</i> , 1994, 33, 15329-15337.	1.2	66
46	Study on the cytotoxicity of microcystin-LR on cultured cells. <i>Chemosphere</i> , 2000, 41, 143-147.	4.2	66
47	Herba epimedii flavonoids suppress osteoclastic differentiation and bone resorption by inducing G2/M arrest and apoptosis. <i>Biochimie</i> , 2012, 94, 2514-2522.	1.3	66
48	Electrochemical properties of DNA-intercalating doxorubicin and methylene blue on n-hexadecyl mercaptan-doped 5- $\mu^2$ -thiol-labeled DNA-modified gold electrodes. <i>Biosensors and Bioelectronics</i> , 2003, 18, 873-879.	5.3	63
49	DNA-directed self-assembly of gold nanoparticles into binary and ternary nanostructures. <i>Nanotechnology</i> , 2007, 18, 015102.	1.3	60
50	PDMS-based microfluidic device with multi-height structures fabricated by single-step photolithography using printed circuit board as masters. <i>Analyst</i> , The, 2003, 128, 1137.	1.7	59
51	The effects of carbon nanotubes on the proliferation and differentiation of primary osteoblasts. <i>Nanotechnology</i> , 2007, 18, 475102.	1.3	58
52	Magnolol suppresses NF- $\kappa$ B activation and NF- $\kappa$ B regulated gene expression through inhibition of I $\kappa$ B kinase activation. <i>Molecular Immunology</i> , 2007, 44, 2647-2658.	1.0	58
53	A microfluidic device with microbead array for sensitive virus detection and genotyping using quantum dots as fluorescence labels. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2402-2407.	5.3	58
54	Molecular mechanisms of survival and apoptosis in RAW 264.7 macrophages under oxidative stress. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2005, 10, 545-556.	2.2	57

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55	The cytotoxicity of naturally occurring styryl lactones. <i>Phytomedicine</i> , 2006, 13, 181-186.	2.3	57
56	Reversal of multidrug resistance in cancer cells by <i>Rhizoma Alismatis</i> extract. <i>Phytomedicine</i> , 2007, 14, 160-165.	2.3	55
57	Robust adaptive spot segmentation of DNA microarray images. <i>Pattern Recognition</i> , 2003, 36, 1251-1254.	5.1	54
58	The effects of gold nanoparticles on the proliferation, differentiation, and mineralization function of MC3T3-E1 cells in vitro. <i>Science Bulletin</i> , 2010, 55, 1013-1019.	1.7	54
59	Perturbation of the electrified interface and the response of the thickness-shear mode acoustic wave sensor under conductive liquid loading. <i>Analytical Chemistry</i> , 1993, 65, 3591-3597.	3.2	53
60	Conformational Flexibility of Three-Way DNA Junctions Containing Unpaired Nucleotides. <i>Biochemistry</i> , 1996, 35, 7959-7967.	1.2	53
61	Peptide-Bridged Assembly of Hybrid Nanomaterial and Its Application for Caspase-3 Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6494-6501.	4.0	52
62	Triptolide induces Bcl-2 cleavage and mitochondria dependent apoptosis in p53-deficient HL-60 cells. <i>Cancer Letters</i> , 2006, 241, 31-41.	3.2	51
63	Synthesis and Biological Activity of a Platinum(II) 6-Phenyl-2,2'-bipyridine Complex and Its Dimeric Analogue. <i>ChemBioChem</i> , 2003, 4, 62-68.	1.3	49
64	Biosensor measurement of the interaction kinetics between insulin-like growth factors and their binding proteins. <i>BBA - Proteins and Proteomics</i> , 1999, 1432, 293-301.	2.1	48
65	Application of white light-emitting diode to surface plasmon resonance sensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 80, 89-94.	4.0	48
66	Effect of daidzin, genistin, and glycitin on osteogenic and adipogenic differentiation of bone marrow stromal cells and adipocytic transdifferentiation of osteoblasts. <i>Acta Pharmacologica Sinica</i> , 2005, 26, 1081-1086.	2.8	48
67	Cytotoxicity of three cycloartane triterpenoids from <i>Cimicifuga dahurica</i> . <i>Cancer Letters</i> , 2005, 226, 65-75.	3.2	48
68	Generation of linear and non-linear concentration gradients along microfluidic channel by microtunnel controlled stepwise addition of sample solution. <i>Lab on A Chip</i> , 2007, 7, 1371.	3.1	48
69	Activation of multiple signaling pathways during the differentiation of mesenchymal stem cells cultured in a silicon nanowire microenvironment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1153-1163.	1.7	48
70	Beta-adrenergic signals regulate adipogenesis of mouse mesenchymal stem cells via cAMP/PKA pathway. <i>Molecular and Cellular Endocrinology</i> , 2010, 323, 201-207.	1.6	47
71	Reorganization of Cytoskeleton and Transient Activation of Ca <sup>2+</sup> Channels in Mesenchymal Stem Cells Cultured on Silicon Nanowire Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 13295-13304.	4.0	47
72	Genosensor technology and the detection of interfacial nucleic acid chemistry. <i>Analytica Chimica Acta</i> , 1997, 346, 259-275.	2.6	46

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73	Kinetic profile of the adsorption and conformational change of lysozyme on self-assembled monolayers as revealed by quartz crystal resonator. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 664-670.	4.0	46
74	Transparent and Gas-Permeable Liquid Marbles for Culturing and Drug Sensitivity Test of Tumor Spheroids. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700185.	3.9	46
75	Herbal formula Astragali Radix and Rehmanniae Radix exerted wound healing effect on human skin fibroblast cell line Hs27 via the activation of transformation growth factor (TGF- $\beta^2$ ) pathway and promoting extracellular matrix (ECM) deposition. <i>Phytomedicine</i> , 2012, 20, 9-16.	2.3	45
76	Coupling gold nanoparticles to silica nanoparticles through disulfide bonds for glutathione detection. <i>Nanotechnology</i> , 2013, 24, 375501.	1.3	45
77	[20] Fluorescence resonance energy transfer as a probe of DNA structure and function. <i>Methods in Enzymology</i> , 1997, 278, 417-444.	0.4	42
78	Effects of Silicon Nanowires on HepG2 Cell Adhesion and Spreading. <i>ChemBioChem</i> , 2007, 8, 1115-1118.	1.3	42
79	Microfluidic Platform for Studying Chemotaxis of Adhesive Cells Revealed a Gradient-Dependent Migration and Acceleration of Cancer Stem Cells. <i>Analytical Chemistry</i> , 2015, 87, 7098-7108.	3.2	40
80	Generation of concentration gradient by controlled flow distribution and diffusive mixing in a microfluidic chip. <i>Lab on A Chip</i> , 2002, 2, 158.	3.1	39
81	Effects of rhDecorin on TGF- $\beta^1$ induced human hepatic stellate cells LX-2 activation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1587-1595.	1.1	39
82	Patterned growth of vertically aligned silicon nanowire arrays for label-free DNA detection using surface-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3143-3150.	1.9	39
83	Organic/inorganic nanohybrids rejuvenate photodynamic cancer therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4748-4763.	2.9	39
84	Voltammetric biosensors for the determination of formate and glucose-6-phosphate based on the measurement of dehydrogenase-generated NADH and NADPH. <i>Biosensors and Bioelectronics</i> , 2001, 16, 211-219.	5.3	38
85	Interactions between carbon nanotubes and DNA polymerase and restriction endonucleases. <i>Nanotechnology</i> , 2007, 18, 025102.	1.3	38
86	$\beta^2$ - and $\beta^3$ -, but not $\beta^1$ -adrenergic receptors are involved in osteogenesis of mouse mesenchymal stem cells via cAMP/PKA signaling. <i>Archives of Biochemistry and Biophysics</i> , 2010, 496, 77-83.	1.4	38
87	Chemoresistant lung cancer stem cells display high DNA repair capability to remove cisplatin-induced DNA damage. <i>British Journal of Pharmacology</i> , 2017, 174, 302-313.	2.7	38
88	The Dual-Effects of LaCl <sub>3</sub> on the Proliferation, Osteogenic Differentiation, and Mineralization of MC3T3-E1 Cells. <i>Biological Trace Element Research</i> , 2012, 150, 433-440.	1.9	36
89	Icariin Stimulates Differentiation and Suppresses Adipocytic Transdifferentiation of Primary Osteoblasts Through Estrogen Receptor-Mediated Pathway. <i>Calcified Tissue International</i> , 2016, 99, 187-198.	1.5	36
90	Study of substrate-enzyme interaction between immobilized pyridoxamine and recombinant porcine pyridoxal kinase using surface plasmon resonance biosensor. <i>BBA - Proteins and Proteomics</i> , 2002, 1596, 95-107.	2.1	35

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91	Effect of hydrogel matrix on binding kinetics of protein-protein interactions on sensor surface. <i>Analytica Chimica Acta</i> , 2002, 456, 201-208.	2.6	35
92	Multienzyme-nanoparticles amplification for sensitive virus genotyping in microfluidic microbeads array using Au nanoparticle probes and quantum dots as labels. <i>Biosensors and Bioelectronics</i> , 2011, 29, 89-96.	5.3	35
93	Bis-intercalative dinuclear platinum(II) 6-phenyl-2,2'-bipyridine complexes exhibit enhanced DNA affinity but similar cytotoxicity compared to the mononuclear unit. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 761-769.	1.1	34
94	Dose-dependent cell-based assays in V-shaped microfluidic channels. <i>Lab on A Chip</i> , 2006, 6, 921.	3.1	34
95	Thickness-shear mode acoustic wave sensors and flow-injection analysis. <i>Analytica Chimica Acta</i> , 1992, 269, 167-175.	2.6	33
96	Cytotoxic Cycloartane Triterpene Saponins from <i>Actaea asiatica</i> . <i>Journal of Natural Products</i> , 2006, 69, 1500-1502.	1.5	33
97	Deep proteome profiling of sera from never-smoked lung cancer patients. <i>Biomedicine and Pharmacotherapy</i> , 2007, 61, 570-577.	2.5	33
98	1,25-Dihydroxyvitamin D3 induces biphasic NF- $\kappa$ B responses during HL-60 leukemia cells differentiation through protein induction and PI3K/Akt-dependent phosphorylation/degradation of I $\kappa$ B. <i>Experimental Cell Research</i> , 2007, 313, 1722-1734.	1.2	33
99	Cell migration microfluidics for electrotaxis-based heterogeneity study of lung cancer cells. <i>Biosensors and Bioelectronics</i> , 2017, 89, 837-845.	5.3	33
100	Linkage of angiotensinogen gene polymorphisms with hypertension in a sibling study of Hong Kong Chinese. <i>Journal of Hypertension</i> , 2010, 28, 1203-1209.	0.3	32
101	Surface plasmon resonance study of the molecular recognition between polymerase and DNA containing various mismatches and conformational changes of DNA-protein complexes. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1209-1218.	5.3	31
102	Magnetic iron oxide nanomaterials: A key player in cancer nanomedicine. <i>View</i> , 2020, 1, 20200046.	2.7	31
103	Communication. Network analysis: acoustic energy transmission detection of polynucleotide hybridization at the sensor-liquid interface. <i>Analyst</i> , 1993, 118, 309-312.	1.7	30
104	A novel miniaturized PCR multi-reactor array fabricated using flip-chip bonding techniques. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1476-1481.	1.5	30
105	Single-cell EMT-related transcriptional analysis revealed intra-cluster heterogeneity of tumor cell clusters in epithelial ovarian cancer ascites. <i>Oncogene</i> , 2020, 39, 4227-4240.	2.6	30
106	Microdissected "cuboids" for microfluidic drug testing of intact tissues. <i>Lab on A Chip</i> , 2021, 21, 122-142.	3.1	30
107	Kinetic study of various binding modes between human DNA polymerase $\beta$ and different DNA substrates by surface-plasmon-resonance biosensor. <i>Biochemical Journal</i> , 2002, 361, 317-325.	1.7	29
108	A single low-cost microfabrication approach for polymethylmethacrylate, polystyrene, polycarbonate and polysulfone based microdevices. <i>RSC Advances</i> , 2015, 5, 36036-36043.	1.7	29

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109	Effects of direct current electric fields on lung cancer cell electrotaxis in a PMMA-based microfluidic device. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2163-2178.	1.9	29
110	Involvement of NF- $\kappa$ B and c-myc signaling pathways in the apoptosis of HL-60 cells induced by alkaloids of <i>Tripterygium hypoglaucom</i> (levl.) Hutch. <i>Phytomedicine</i> , 2004, 11, 295-302.	2.3	28
111	Transcriptional analysis of doxorubicin-induced cytotoxicity and resistance in human hepatocellular carcinoma cell lines. <i>Liver International</i> , 2009, 29, 1338-1347.	1.9	28
112	Water-Soluble and Biocompatible Cyclometalated Iridium(III) Complexes: Synthesis, Luminescence and Sensing Application. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 197-200.	1.0	28
113	Mutations at codon 249 of p53 gene in human hepatocellular carcinomas from Tongan, China. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1997, 381, 25-29.	0.4	27
114	Synthesis, characterization and biomedical application of multifunctional luminomagnetic core-shell nanoparticles. <i>Materials Science and Engineering C</i> , 2015, 46, 32-40.	3.8	26
115	Pyranocoumarin ( $\pm$ )-4-O-Acetyl-3-O-angeloyl-cis-khellactone Induces Mitochondrial-Dependent Apoptosis in HL-60 Cells. <i>Planta Medica</i> , 2004, 70, 489-495.	0.7	25
116	Building Nanoscale Architectures by Directed Synthesis and Self-Assembly. <i>Current Nanoscience</i> , 2009, 5, 75-87.	0.7	25
117	Real-time monitoring of suspension cell-cell communication using an integrated microfluidics. <i>Lab on A Chip</i> , 2010, 10, 2271.	3.1	25
118	Screen printing of solder resist as master substrates for fabrication of multi-level microfluidic channels and flask-shaped microstructures for cell-based applications. <i>Biosensors and Bioelectronics</i> , 2013, 41, 675-683.	5.3	25
119	Interaction between Pyridoxal Kinase and Pyridoxal-5-phosphate-Dependent Enzymes. <i>Journal of Biochemistry</i> , 2003, 134, 731-738.	0.9	24
120	Biofunctional organic nanocrystals for quantitative detection of pathogen deoxyribonucleic acid. <i>Analytica Chimica Acta</i> , 2007, 584, 7-11.	2.6	24
121	The structure and function of ribonuclease A upon interacting with carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 095102.	1.3	24
122	Synthesis, characterization and antitumor activity of new type binuclear platinum(II) complexes. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 2322-2327.	2.6	24
123	Facile Synthesis of Gadolinium Chelate-Conjugated Polymer Nanoparticles for Fluorescence/Magnetic Resonance Dual-Modal Imaging. <i>Analytical Chemistry</i> , 2018, 90, 1992-2000.	3.2	24
124	Effects of Carbon Nanotubes on the Proliferation and Differentiation of Primary Osteoblasts. <i>Methods in Molecular Biology</i> , 2010, 625, 41-53.	0.4	24
125	A general colorimetric method for detecting protease activity based on peptide-induced gold nanoparticle aggregation. <i>RSC Advances</i> , 2014, 4, 6560-6563.	1.7	23
126	Covalent Immobilization of Oligonucleotides on Modified Glass/Silicon Surfaces for Solid-phase DNA Hybridization and Amplification. <i>Chemistry Letters</i> , 1998, 27, 257-258.	0.7	22



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127	Surface Plasmon Resonance Study of DNA Polymerases Binding to Template/Primer DNA Duplexes Immobilized on Supported Lipid Monolayers. <i>Langmuir</i> , 2000, 16, 6590-6596.	1.6	22
128	Covalently linked deoxyribonucleic acid with multiwall carbon nanotubes: Synthesis and characterization. <i>Applied Physics Letters</i> , 2005, 86, 103114.	1.5	22
129	Microfluidic formation of single cell array for parallel analysis of Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> (CRAC) channel activation and inhibition. <i>Analytical Biochemistry</i> , 2010, 396, 173-179.	1.1	22
130	Danshenâ€œGegen decoction exerts proliferative effect on rat cardiac myoblasts H9c2 via MAPK and insulin pathways. <i>Journal of Ethnopharmacology</i> , 2011, 138, 60-66.	2.0	22
131	Single-cell RNA-seq recognized the initiator of epithelial ovarian cancer recurrence. <i>Oncogene</i> , 2022, 41, 895-906.	2.6	22
132	Onâ€œSite Formation of Emulsions by Controlled Air Plugs. <i>Small</i> , 2014, 10, 758-765.	5.2	21
133	Kinetic study of various binding modes between human DNA polymerase $\beta$ and different DNA substrates by surface-plasmon-resonance biosensor. <i>Biochemical Journal</i> , 2002, 361, 317.	1.7	20
134	Integrity and redox properties of homogeneous and heterogeneous DNA films on gold surface probed by cyclic voltammetry. <i>Thin Solid Films</i> , 2002, 413, 218-223.	0.8	20
135	Dexamethasone protects RAW264.7 macrophages from growth arrest and apoptosis induced by H <sub>2</sub> O <sub>2</sub> through alteration of gene expression patterns and inhibition of nuclear factor-kappa B (NF- $\kappa$ B) activity. <i>Toxicology</i> , 2007, 236, 16-28.	2.0	20
136	Microfluidics study of intracellular calcium response to mechanical stimulation on single suspension cells. <i>Lab on A Chip</i> , 2013, 13, 1060.	3.1	20
137	iTRAQ-based proteomic profiling of the marine medaka ( <i>Oryzias melastigma</i> ) gonad exposed to BDE-47. <i>Marine Pollution Bulletin</i> , 2014, 85, 471-478.	2.3	20
138	Nanoparticle-based signal generation and amplification in microfluidic devices for bioanalysis. <i>Analyst</i> , The, 2013, 138, 6709.	1.7	19
139	Flavonoids of <i>Herba Epimedii</i> stimulate osteogenic differentiation and suppress adipogenic differentiation of primary mesenchymal stem cells via estrogen receptor pathway. <i>Pharmaceutical Biology</i> , 2016, 54, 954-963.	1.3	19
140	Electrotaxis of tumor-initiating cells of H1975 lung adenocarcinoma cells is associated with both activation of stretch-activated cation channels (SACCs) and internal calcium release. <i>Bioelectrochemistry</i> , 2018, 124, 80-92.	2.4	19
141	1p31, 7q21 and 18q21 chromosomal aberrations and candidate genes in acquired vinblastine resistance of human cervical carcinoma KB cells. <i>Oncology Reports</i> , 2008, 19, 1155-64.	1.2	19
142	Hydrodynamic simulation of cell docking in microfluidic channels with different dam structures. <i>Lab on A Chip</i> , 2004, 4, 53.	3.1	18
143	Effect of hypoxia on RAW264.7 macrophages apoptosis and signaling. <i>Toxicology</i> , 2007, 235, 52-61.	2.0	18
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