

# Dan Gao

## List of Publications by Year in descending order

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53  
papers

2,010  
citations

236925

25  
h-index

254184

43  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxicity of transition metal nanoparticles: A review of different experimental models in the gastrointestinal tract. <i>Journal of Applied Toxicology</i> , 2023, 43, 32-46.	2.8	15
2	A cellular chip-MS system for investigation of <i>Lactobacillus rhamnosus</i> GG and irinotecan synergistic effects on colorectal cancer. <i>Chinese Chemical Letters</i> , 2022, 33, 2096-2100.	9.0	9
3	Recent Development of Drug Delivery Systems through Microfluidics: From Synthesis to Evaluation. <i>Pharmaceutics</i> , 2022, 14, 434.	4.5	33
4	A microfluidic chemiluminescence biosensor based on multiple signal amplification for rapid and sensitive detection of <i>E. coli</i> O157:H7. <i>Biosensors and Bioelectronics</i> , 2022, 212, 114390.	10.1	42
5	Streaming-enhanced, chip-based biosensor with acoustically active, biomarker-functionalized micropillars: A case study of thrombin detection. <i>Talanta</i> , 2021, 222, 121480.	5.5	23
6	Colorimetric glucose sensing with multiple-color changes by using a MnO <sub>2</sub> /NSs@TMB nanosystem. <i>Analytical Methods</i> , 2021, 13, 769-775.	2.7	8
7	Comparative Proteomic Analysis of Histone Modifications upon Acridone Derivative <b>8a</b> -Induced CCRF-CEM Cells by Data Independent Acquisition. <i>Journal of Proteome Research</i> , 2020, 19, 819-831.	3.7	2
8	Highly Selective Oxidation of Organic Sulfides by a Conjugated Polymer as the Photosensitizer for Singlet Oxygen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 35475-35481.	8.0	38
9	Polydopamine-Modified TS-1 Zeolite Framework Nanoparticles as a Matrix for the Analysis of Small Molecules by MALDI-TOF MS. <i>ACS Omega</i> , 2020, 5, 19952-19959.	3.5	4
10	Co-culture of tumor spheroids and monocytes in a collagen matrix-embedded microfluidic device to study the migration of breast cancer cells. <i>Chinese Chemical Letters</i> , 2019, 30, 331-336.	9.0	27
11	Determination and quantification of fatty acid C=C isomers by epoxidation reaction and liquid chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2019, 1086, 82-89.	5.4	15
12	1,5-Diaminonaphthalene functionalized carbon nanodots as a novel matrix for the analysis of small molecules by matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Methods</i> , 2019, 11, 1131-1136.	2.7	5
13	Function, Detection and Alteration of Acylcarnitine Metabolism in Hepatocellular Carcinoma. <i>Metabolites</i> , 2019, 9, 36.	2.9	90
14	Microfluidic three-dimensional biomimetic tumor model for studying breast cancer cell migration and invasion in the presence of interstitial flow. <i>Chinese Chemical Letters</i> , 2019, 30, 1038-1042.	9.0	20
15	Metabolic Profiling of Amino Acids by Liquid Chromatography-Tandem Mass Spectrometry (LC-MS) to Characterize the Significance of Glutamine in Triple-Negative Breast Cancer (TNBC). <i>Analytical Letters</i> , 2019, 52, 1068-1082.	1.8	1
16	Aqueous microdroplets containing only ketones or aldehydes undergo Dakin and Baeyer-Villiger reactions. <i>Chemical Science</i> , 2019, 10, 10974-10978.	7.4	81
17	Recent advances in single cell manipulation and biochemical analysis on microfluidics. <i>Analyst</i> , The, 2019, 144, 766-781.	3.5	119
18	Selective Synthesis in Microdroplets of 2-Phenyl-2,3-dihydrophthalazine-1,4-dione from Phenyl Hydrazine with Phthalic Anhydride or Phthalic Acid. <i>Chemistry - A European Journal</i> , 2019, 25, 1466-1471.	3.3	25

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19	Isotope Labeling Strategies for Acylcarnitines Profile in Biological Samples by Liquid Chromatography–Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 1701-1705.	6.5	9
20	CMAUP: a database of collective molecular activities of useful plants. <i>Nucleic Acids Research</i> , 2019, 47, D1118-D1127.	14.5	68
21	NPASS: natural product activity and species source database for natural product research, discovery and tool development. <i>Nucleic Acids Research</i> , 2018, 46, D1217-D1222.	14.5	177
22	8u, a pro-apoptosis/cell cycle arrest compound, suppresses invasion and metastasis through HSP90 $\alpha$ downregulating and PI3K/Akt inactivation in hepatocellular carcinoma cells. <i>Scientific Reports</i> , 2018, 8, 309.	3.3	9
23	Efficient photocatalytic oxidation sensitized by conjugated polymers in a batch reaction and microreactors under visible light. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15927-15932.	10.3	14
24	Combing metabolomics with bioanalysis methods to study the antitumor mechanism of the new acridone derivative 8q on CCRF-CEM cells: 8q induced mitochondrial-mediated apoptosis and targeted the PI3K/AKT/FOXO1 pathway. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 160, 314-322.	2.8	4
25	A novel 3D breast-cancer-on-chip platform for therapeutic evaluation of drug delivery systems. <i>Analytica Chimica Acta</i> , 2018, 1036, 97-106.	5.4	79
26	Metabolomics analysis reveals aminoquinazolin derivative 9d-induced oxidative stress and cell cycle arrest in A549 cells. <i>RSC Advances</i> , 2017, 7, 13149-13158.	3.6	14
27	Simultaneous quantitation of hydrazine and acetylhydrazine in human plasma by high performance liquid chromatography-tandem mass spectrometry after derivatization with p-tolualdehyde. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1063, 189-195.	2.3	23
28	Exposure of CCRF-CEM cells to acridone derivative 8a triggers tumor death via multiple mechanisms. <i>Proteomics</i> , 2016, 16, 1177-1190.	2.2	9
29	MALDI imaging for the localization of saponins in root tissues and rapid differentiation of three <i>Panax</i> herbs. <i>Electrophoresis</i> , 2016, 37, 1956-1966.	2.4	26
30	Matrix-assisted laser desorption/ionization mass spectrometry imaging of cell cultures for the lipidomic analysis of potential lipid markers in human breast cancer invasion. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 533-542.	1.5	34
31	Advances of Microfluidic Technologies Applied in Bio-analytical Chemistry. <i>Chinese Journal of Analytical Chemistry</i> , 2016, 44, 1942-1949.	1.7	13
32	Application of metabolomics to investigate the antitumor mechanism of flavopiridol in MCF-7 breast cancer cells. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1025, 40-47.	2.3	22
33	Carbon Dots and 9AA as a Binary Matrix for the Detection of Small Molecules by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1227-1235.	2.8	32
34	Surface-printed microdot array chips coupled with matrix-assisted laser desorption/ionization mass spectrometry for high-throughput single-cell patterning and phospholipid analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 73-79.	1.5	18
35	Development of N,S-doped carbon dots as a novel matrix for the analysis of small molecules by negative ion MALDI-TOF MS. <i>RSC Advances</i> , 2016, 6, 79043-79049.	3.6	27
36	Development of a blood-brain barrier model in a membrane-based microchip for characterization of drug permeability and cytotoxicity for drug screening. <i>Analytica Chimica Acta</i> , 2016, 934, 186-193.	5.4	44

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37	Metabolomics study on the antitumor effect of marine natural compound flexibilide in HCT-116 colon cancer cell line. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1014, 17-23.	2.3	28
38	Localization of ginsenosides in <i>Panax ginseng</i> with different age by matrix-assisted laser-desorption/ionization time-of-flight mass spectrometry imaging. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1026, 263-271.	2.3	41
39	Stable Isotope Labeling Strategy for Curcumin Metabolite Study in Human Liver Microsomes by Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 686-694.	2.8	17
40	Study of Phospholipids in Single Cells Using an Integrated Microfluidic Device Combined with Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7052-7059.	6.5	52
41	Drug cytotoxicity and signaling pathway analysis with three-dimensional tumor spheroids in a microwell-based microfluidic chip for drug screening. <i>Analytica Chimica Acta</i> , 2015, 898, 85-92.	5.4	89
42	Molecular interaction study of flavonoid derivative 3d with human serum albumin using multispectroscopic and molecular modeling approach. <i>Talanta</i> , 2014, 126, 116-121.	5.5	41
43	Rapid and sensitive determination of fatty acids in edible oil by liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Science China Chemistry</i> , 2014, 57, 447-452.	8.2	4
44	Development of a novel multi-layer microfluidic device towards characterization of drug metabolism and cytotoxicity for drug screening. <i>Chemical Communications</i> , 2014, 50, 2762-2764.	4.1	26
45	Metabonomic study on the antitumor effect of flavonoid derivative 3d in HepG2 cells and its action mechanism. <i>Talanta</i> , 2014, 118, 382-388.	5.5	19
46	A novel quantification method for analysis of twenty natural amino acids in human serum based on N-phosphorylation labeling using reversed-phase liquid chromatography-tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2014, 836, 61-71.	5.4	38
47	Recent advances in microfluidics combined with mass spectrometry: technologies and applications. <i>Lab on A Chip</i> , 2013, 13, 3309.	6.0	111
48	Characterization of drug permeability in Caco-2 monolayers by mass spectrometry on a membrane-based microfluidic device. <i>Lab on A Chip</i> , 2013, 13, 978.	6.0	118
49	Acridone Derivative 8a Induces Oxidative Stress-Mediated Apoptosis in CCRF-CEM Leukemia Cells: Application of Metabolomics in Mechanistic Studies of Antitumor Agents. <i>PLoS ONE</i> , 2013, 8, e63572.	2.5	24
50	Evaluation of the Absorption of Methotrexate on Cells and Its Cytotoxicity Assay by Using an Integrated Microfluidic Device Coupled to a Mass Spectrometer. <i>Analytical Chemistry</i> , 2012, 84, 9230-9237.	6.5	62
51	A microfluidic photolithography for controlled encapsulation of single cells inside hydrogel microstructures. <i>Science China Chemistry</i> , 2012, 55, 494-501.	8.2	13
52	Fabrication of Microwell Arrays Based on Two-Dimensional Ordered Polystyrene Microspheres for High-Throughput Single-Cell Analysis. <i>Analytical Chemistry</i> , 2010, 82, 9418-9424.	6.5	67
53	Microfluidic Cell Culture and Metabolism Detection with Electrospray Ionization Quadrupole Time-of-Flight Mass Spectrometer. <i>Analytical Chemistry</i> , 2010, 82, 5679-5685.	6.5	81