

Joon Myong Song

List of Publications by Year in descending order

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78
papers

4,937
citations

304368

22
h-index

91712

69
g-index

80
all docs

80
docs citations

80
times ranked

8731
citing authors

#	ARTICLE	IF	CITATIONS
1	Does the Antibacterial Activity of Silver Nanoparticles Depend on the Shape of the Nanoparticle? A Study of the Gram-Negative Bacterium <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 1712-1720.	1.4	3,422
2	Shape-Dependent Skin Penetration of Silver Nanoparticles: Does It Really Matter?. <i>Scientific Reports</i> , 2015, 5, 16908.	1.6	137
3	The Application of Bactericidal Silver Nanoparticles in Wound Treatment. <i>Nanomaterials and Nanotechnology</i> , 2015, 5, 23.	1.2	72
4	Mitochondria and DNA Targeting of 5,10,15,20-Tetrakis(7-sulfonatobenzo[<i>b</i>]thiophene) Porphyrin-Induced Photodynamic Therapy via Intrinsic and Extrinsic Apoptotic Cell Death. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6864-6874.	2.9	72
5	Synthesis of Highly Antibacterial Nanocrystalline Trivalent Silver Polydiguamide. <i>Journal of the American Chemical Society</i> , 2009, 131, 16147-16155.	6.6	68
6	Biotin-conjugated PEGylated porphyrin self-assembled nanoparticles co-targeting mitochondria and lysosomes for advanced chemo-photodynamic combination therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 65-79.	2.9	56
7	Quantum dot as probe for disease diagnosis and monitoring. <i>Biotechnology Journal</i> , 2016, 11, 31-42.	1.8	52
8	Evaluation of passive mixing behaviors in a pillar obstruction poly(dimethylsiloxane) microfluidic mixer using fluorescence microscopy. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 267-273.	1.0	49
9	Essential Role of Polo-like Kinase 1 (Plk1) Oncogene in Tumor Growth and Metastasis of Tamoxifen-Resistant Breast Cancer. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 825-837.	1.9	46
10	Simultaneous analysis of δ^9 -tetrahydrocannabinol and 11-nor-9-carboxy-tetrahydrocannabinol in hair without different sample preparation and derivatization by gas chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 55, 1096-1103.	1.4	36
11	Hair analysis and self-report of methamphetamine use by methamphetamine dependent individuals. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 541-547.	1.2	36
12	Cytotoxicity mechanism of non-viral carriers polyethylenimine and poly-L-lysine using real time high-content cellular assay. <i>Polymer</i> , 2014, 55, 5178-5188.	1.8	35
13	Novel ruthenium(II) triazine complex [Ru(bdpta)(tpy)] ²⁺ co-targeting drug resistant GRP78 and subcellular organelles in cancer stem cells. <i>European Journal of Medicinal Chemistry</i> , 2018, 156, 747-759.	2.6	35
14	3D Microfluidic Platform and Tumor Vascular Mapping for Evaluating Anti-Angiogenic RNAi-Based Nanomedicine. <i>ACS Nano</i> , 2021, 15, 338-350.	7.3	34
15	3D bioprinted drug-resistant breast cancer spheroids for quantitative in situ evaluation of drug resistance. <i>Acta Biomaterialia</i> , 2022, 138, 228-239.	4.1	31
16	Real-time concurrent monitoring of apoptosis, cytosolic calcium, and mitochondria permeability transition for hypermulticolor high-content screening of drug-induced mitochondrial dysfunction-mediated hepatotoxicity. <i>Toxicology Letters</i> , 2012, 214, 175-181.	0.4	30
17	Liposomal co-delivery-based quantitative evaluation of chemosensitivity enhancement in breast cancer stem cells by knockdown of GRP78/CLU. <i>Journal of Liposome Research</i> , 2019, 29, 44-52.	1.5	28
18	Quantum dot nanoprobe-based high-content monitoring of notch pathway inhibition of breast cancer stem cell by capsaicin. <i>Molecular and Cellular Probes</i> , 2015, 29, 376-381.	0.9	27

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19	Investigation on vascular cytotoxicity and extravascular transport of cationic polymer nanoparticles using perfusable 3D microvessel model. <i>Acta Biomaterialia</i> , 2018, 76, 154-163.	4.1	26
20	“High-content quantum dot-based subtype diagnosis and classification of breast cancer patients using hypermulticolor quantitative single cell imaging cytometry” <i>Nano Today</i> , 2012, 7, 231-244.	6.2	25
21	Knockdown of clusterin alters mitochondrial dynamics, facilitates necrosis in camptothecin-induced cancer stem cells. <i>Cell Biology and Toxicology</i> , 2017, 33, 307-321.	2.4	24
22	Design, synthesis, and biological evaluation of novel catecholpyrimidine based PDE4 inhibitor for the treatment of atopic dermatitis. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 673-690.	2.6	24
23	A 3D cell printing-fabricated HepG2 liver spheroid model for high-content <i>in situ</i> quantification of drug-induced liver toxicity. <i>Biomaterials Science</i> , 2021, 9, 5939-5950.	2.6	24
24	Cell death mechanistic study of photodynamic therapy against breast cancer cells utilizing liposomal delivery of 5,10,15,20-tetrakis(benzo[b]thiophene) porphyrin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 166, 116-125.	1.7	23
25	Ag ₂ S quantum dot theragnostics. <i>Biomaterials Science</i> , 2021, 9, 51-69.	2.6	23
26	Multifunctional TPP-PEG-biotin self-assembled nanoparticle drug delivery-based combination therapeutic approach for co-targeting of GRP78 and lysosome. <i>Journal of Nanobiotechnology</i> , 2020, 18, 102.	4.2	22
27	Bifunctional Therapeutic High-Valence Silver-Pyridoxine Nanoparticles with Proliferative and Antibacterial Wound-Healing Activities. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 182-196.	0.5	21
28	Investigating the versatility of multifunctional silver nanoparticles: preparation and inspection of their potential as wound treatment agents. <i>International Nano Letters</i> , 2016, 6, 51-63.	2.3	21
29	Inkjet-Printing Enzyme Inhibitory Assay Based on Determination of Ejection Volume. <i>Analytical Chemistry</i> , 2017, 89, 2009-2016.	3.2	20
30	Highly Efficient and Rapid Neural Differentiation of Mouse Embryonic Stem Cells Based on Retinoic Acid Encapsulated Porous Nanoparticle. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34634-34640.	4.0	19
31	A multifunctional composite of an antibacterial higher-valent silver metallopharmaceutical and a potent wound healing polypeptide: a combined killing and healing approach to wound care. <i>New Journal of Chemistry</i> , 2014, 38, 3889-3898.	1.4	18
32	Concurrent hypermulticolor monitoring of CD31, CD34, CD45 and CD146 endothelial progenitor cell markers for acute myocardial infarction. <i>Analytica Chimica Acta</i> , 2015, 853, 501-507.	2.6	17
33	Impact of Environmental Pollutant Cadmium on the Establishment of a Cancer Stem Cell Population in Breast and Hepatic Cancer. <i>ACS Omega</i> , 2017, 2, 563-572.	1.6	17
34	High-throughput chemical screening to discover new modulators of microRNA expression in living cells by using graphene-based biosensor. <i>Scientific Reports</i> , 2018, 8, 11413.	1.6	17
35	Cell lysis-free quantum dot multicolor cellular imaging-based mechanism study for TNF- α -induced insulin resistance. <i>Journal of Nanobiotechnology</i> , 2015, 13, 4.	4.2	16
36	Determination of the dose-dependent depth distribution of proton beam using resazurin assay in vitro and diode laser-induced fluorescence detection. <i>Analytica Chimica Acta</i> , 2007, 593, 214-223.	2.6	15

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37	Insulin-mimetic and anti-inflammatory potential of a vanadyl-Schiff base complex for its application against diabetes. <i>RSC Advances</i> , 2016, 6, 57530-57539.	1.7	15
38	A Novel Catecholopyrimidine Based Small Molecule PDE4B Inhibitor Suppresses Inflammatory Cytokines in Atopic Mice. <i>Frontiers in Pharmacology</i> , 2018, 9, 485.	1.6	15
39	Highly sensitive polymerase chain reaction-free quantum dot-based quantification of forensic genomic DNA. <i>Analytica Chimica Acta</i> , 2012, 721, 85-91.	2.6	14
40	DNA mutation analysis based on capillary electrochromatography using colloidal poly(N-isopropylacrylamide) particles as pseudostationary phase. <i>Talanta</i> , 2006, 68, 940-944.	2.9	13
41	Inkjet printing-based photo-induced electron transfer reaction on parchment paper using riboflavin as a photosensitizer. <i>Analytica Chimica Acta</i> , 2018, 1012, 49-59.	2.6	13
42	Development of a novel DNA chip based on a bipolar semiconductor microchip system. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1447-1453.	5.3	12
43	Spectral overlap-free quantum dot-based determination of benzo[a]pyrene-induced cancer stem cells by concurrent monitoring of CD44, CD24 and aldehyde dehydrogenase 1. <i>Chemical Communications</i> , 2015, 51, 2118-2121.	2.2	12
44	Peptide substrate-based inkjet printing high-throughput MMP-9 anticancer assay using fluorescence resonance energy transfer (FRET). <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 1093-1099.	4.0	12
45	A FRET assay for the quantitation of inhibitors of exonuclease EcoRV by using parchment paper inkjet-printed with graphene oxide and FAM-labelled DNA. <i>Mikrochimica Acta</i> , 2019, 186, 211.	2.5	12
46	Pulsed photostimulated- and thermo-luminescence investigations of β ray-irradiated herbs. <i>Food Chemistry</i> , 2010, 122, 1290-1297.	4.2	11
47	Paper-based inkjet bioprinting to detect fluorescence resonance energy transfer for the assessment of anti-inflammatory activity. <i>Scientific Reports</i> , 2018, 8, 591.	1.6	11
48	Nanosized silver (II) pyridoxine complex to cause greater inflammatory response and less cytotoxicity to RAW264.7 macrophage cells. <i>Nanoscale Research Letters</i> , 2015, 10, 140.	3.1	10
49	Crosstalk-eliminated quantitative determination of aflatoxin B1-induced hepatocellular cancer stem cells based on concurrent monitoring of CD133, CD44, and aldehyde dehydrogenase1. <i>Toxicology Letters</i> , 2016, 243, 31-39.	0.4	10
50	Inkjet printing-based β -secretase fluorescence resonance energy transfer (FRET) assay for screening of potential β -secretase inhibitors of Alzheimer's disease. <i>Analytica Chimica Acta</i> , 2018, 1022, 89-95.	2.6	10
51	Photodiode Array On-chip Biosensor for the Detection of E. coli O157:H7 Pathogenic Bacteria. <i>Methods in Molecular Biology</i> , 2009, 503, 325-335.	0.4	10
52	Synthesis of Fluorescent Au Nanocrystals@Silica Hybrid Nanocomposite (FLASH) with Enhanced Optical Features for Bioimaging and Photodynamic Activity. <i>Langmuir</i> , 2018, 34, 173-178.	1.6	9
53	Application of fluorescence resonance energy transfer to bioprinting. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115749.	5.8	9
54	Development of a photosensitive, high-throughput chip-based superoxide dismutase (SOD) assay to explore the radioprotective activity of herbal plants. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3587-3593.	5.3	8

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55	Development of radiation indicators to distinguish between irradiated and non-irradiated herbal medicines using HPLC and GC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 943-953.	1.9	8
56	Low noise bipolar photodiode array protein chip based on on-chip bioassay for the detection of E. coli O157:H7. <i>Biomedical Microdevices</i> , 2007, 9, 565-572.	1.4	7
57	Green fluorescent protein (GFP) as a direct biosensor for mutation detection: Elimination of false-negative errors in target gene expression. <i>Analytical Biochemistry</i> , 2008, 380, 91-98.	1.1	7
58	Quantitative evaluation of ABC transporter-mediated drug resistance based on the determination of the anticancer activity of camptothecin against breast cancer stem cells using TIRF. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 704-711.	0.6	7
59	Identification of β -ray irradiated medicinal herbs using pulsed photostimulated luminescence, thermoluminescence, and electron spin resonance spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1931-1945.	1.9	6
60	Synthesis, Characterization, and Antibacterial Activities of High-Valence Silver Propamidine Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 736.	1.3	6
61	Interdigitated microelectrode array-coupled bipolar semiconductor photodiode array (IMEA-PDA) microchip for on-chip electrochemiluminescence detection. <i>Biomedical Microdevices</i> , 2009, 11, 971-980.	1.4	5
62	VEGF inhibitor (Iressa) arrests histone deacetylase expression: Single-cell cotransfection imaging cytometry for multi-target drug analysis. <i>Journal of Cellular Physiology</i> , 2011, 226, 2115-2122.	2.0	4
63	Quantification of UV-induced cyclobutane pyrimidine dimers using an oligonucleotide chip assay. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2271-2277.	1.9	3
64	Side-Chain-Dependent Binding of bis-Naphthalimide Self-Assembled Nanoparticles to G-Quadruplex DNA for Potential Anticancer Therapy. <i>ACS Applied Nano Materials</i> , 2020, 3, 1339-1353.	2.4	3
65	Scaffold-free 3D printing for fabrication of biomimetic branched multinucleated cardiac tissue construct: A promising ex vivo model for in situ detection of drug-induced sodium ion channel responses. <i>Applied Materials Today</i> , 2022, 27, 101416.	2.3	3
66	TIRF high-content assay development for the evaluation of drug efficacy of chemotherapeutic agents against EGFR/HER2-positive breast cancer cell lines. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3233-3238.	1.9	2
67	Quantum-dot nanoprobe and AOTF based cross talk eliminated six color imaging of biomolecules in cellular system. <i>Analytica Chimica Acta</i> , 2017, 985, 166-174.	2.6	2
68	Direct On-Paper Inkjet Printing of Kinase-to-Kinase Phosphorylation Cascade Reactions. <i>ACS Omega</i> , 2019, 4, 7866-7873.	1.6	2
69	Printing-Based Assay and Therapy of Antioxidants. <i>Antioxidants</i> , 2020, 9, 1052.	2.2	2
70	Silver as antibacterial agent: Metal nanoparticles to nanometallopharmaceuticals: (Silver based) Tj ETQq0 0 0 rgBT /Overlock 1 Tf 50 14		1
71	On chip superoxide dismutase assay for high-throughput screening of radioprotective activity of herbal plants. , 2010, , .		1
72	High-content cell death imaging using quantum dot-based TIRF microscopy for the determination of anticancer activity against breast cancer stem cell. <i>Journal of Biophotonics</i> , 2017, 10, 118-127.	1.1	1

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73	Hypermulticolor Detector for Quantum-Antibody Based Concurrent Detection of Intracellular Markers for HIV Diagnosis. <i>Methods in Molecular Biology</i> , 2017, 1571, 221-232.	0.4	1
74	Inkjet Bioprinting on Parchment Paper for Hit Identification from Small Molecule Libraries. <i>ACS Omega</i> , 2020, 5, 588-596.	1.6	1
75	Transparent tumor microenvironment: Are liposomal nanoparticles sufficient for drug delivery to hypoxic regions and clonogenic cells?. <i>Applied Materials Today</i> , 2020, 19, 100561.	2.3	1
76	High-throughput screening of xanthine oxidase inhibitory properties of drug analogs using photodiode array microchip. , 2010, , .		0
77	Multicolor single cell imaging cytometry: A new drug screening platform for monitoring intracellular caspases as potential therapeutic targets. , 2010, , .		0
78	Regional average intensity-based adherent cellular imaging: application to evaluation of drug-induced cardiotoxicity. <i>Analytical Methods</i> , 2014, 6, 6015.	1.3	0