

# Joon Myong Song

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76  
papers

3,986  
citations

19  
h-index

63  
g-index

80  
ext. papers

4,451  
ext. citations

6.1  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
76	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> , <b>2022</b> , 27, 101416	6.6	0
75	3D bioprinted drug-resistant breast cancer spheroids for quantitative in situ evaluation of drug resistance. <i>Acta Biomaterialia</i> , <b>2021</b> , 138, 228-228	10.8	5
74	3D Microfluidic Platform and Tumor Vascular Mapping for Evaluating Anti-Angiogenic RNAi-Based Nanomedicine. <i>ACS Nano</i> , <b>2021</b> , 15, 338-350	16.7	11
73	AgS quantum dot theragnostics. <i>Biomaterials Science</i> , <b>2021</b> , 9, 51-69	7.4	8
72	A 3D cell printing-fabricated HepG2 liver spheroid model for high-content in situ quantification of drug-induced liver toxicity. <i>Biomaterials Science</i> , <b>2021</b> , 9, 5939-5950	7.4	8
71	Transparent tumor microenvironment: Are liposomal nanoparticles sufficient for drug delivery to hypoxic regions and clonogenic cells?. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100561	6.6	1
70	Side-Chain-Dependent Binding of bis-Naphthalimide Self-Assembled Nanoparticles to G-Quadruplex DNA for Potential Anticancer Therapy. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1339-1353	5.6	2
69	Inkjet Bioprinting on Parchment Paper for Hit Identification from Small Molecule Libraries. <i>ACS Omega</i> , <b>2020</b> , 5, 588-596	3.9	1
68	Application of fluorescence resonance energy transfer to bioprinting. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 122, 115749	14.6	4
67	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> , <b>2020</b> , 18, 102	9.4	9
66	Printing-Based Assay and Therapy of Antioxidants. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	1
65	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> , <b>2019</b> , 7, 65-79	7.3	33
64	Direct On-Paper Inkjet Printing of Kinase-to-Kinase Phosphorylation Cascade Reactions. <i>ACS Omega</i> , <b>2019</b> , 4, 7866-7873	3.9	2
63	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> , <b>2019</b> , 186, 211	5.8	6
62	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> , <b>2019</b> , 29, 44-52	6.1	20
61	Inkjet printing-based photo-induced electron transfer reaction on parchment paper using riboflavin as a photosensitizer. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1012, 49-59	6.6	12
60	Essential Role of Polo-like Kinase 1 (Plk1) Oncogene in Tumor Growth and Metastasis of Tamoxifen-Resistant Breast Cancer. <i>Molecular Cancer Therapeutics</i> , <b>2018</b> , 17, 825-837	6.1	32

59	Paper-based inkjet bioprinting to detect fluorescence resonance energy transfer for the assessment of anti-inflammatory activity. <i>Scientific Reports</i> , <b>2018</b> , 8, 591	4.9	8
58	Design, synthesis, and biological evaluation of novel catecholopyrimidine based PDE4 inhibitor for the treatment of atopic dermatitis. <i>European Journal of Medicinal Chemistry</i> , <b>2018</b> , 145, 673-690	6.8	16
57	Inkjet printing-based $\beta$ -secretase fluorescence resonance energy transfer (FRET) assay for screening of potential $\beta$ -secretase inhibitors of Alzheimer's disease. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1022, 89-95	6.6	10
56	High-throughput chemical screening to discover new modulators of microRNA expression in living cells by using graphene-based biosensor. <i>Scientific Reports</i> , <b>2018</b> , 8, 11413	4.9	11
55	A Novel Catecholopyrimidine Based Small Molecule PDE4B Inhibitor Suppresses Inflammatory Cytokines in Atopic Mice. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 485	5.6	9
54	Novel ruthenium(II) triazine complex [Ru(bdpta)(tpy)] co-targeting drug resistant GRP78 and subcellular organelles in cancer stem cells. <i>European Journal of Medicinal Chemistry</i> , <b>2018</b> , 156, 747-759	6.8	21
53	Peptide substrate-based inkjet printing high-throughput MMP-9 anticancer assay using fluorescence resonance energy transfer (FRET). <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 256, 1093-1099	8.5	10
52	Synthesis of Fluorescent Au Nanocrystals-Silica Hybrid Nanocomposite (FLASH) with Enhanced Optical Features for Bioimaging and Photodynamic Activity. <i>Langmuir</i> , <b>2018</b> , 34, 173-178	4	8
51	Investigation on vascular cytotoxicity and extravascular transport of cationic polymer nanoparticles using perfusable 3D microvessel model. <i>Acta Biomaterialia</i> , <b>2018</b> , 76, 154-163	10.8	19
50	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> , <b>2017</b> , 10, 118-127	3.1	1
49	Knockdown of clusterin alters mitochondrial dynamics, facilitates necrosis in camptothecin-induced cancer stem cells. <i>Cell Biology and Toxicology</i> , <b>2017</b> , 33, 307-321	7.4	22
48	Impact of Environmental Pollutant Cadmium on the Establishment of a Cancer Stem Cell Population in Breast and Hepatic Cancer. <i>ACS Omega</i> , <b>2017</b> , 2, 563-572	3.9	15
47	Hypermulticolor Detector for Quantum-Antibody Based Concurrent Detection of Intracellular Markers for HIV Diagnosis. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1571, 221-232	1.4	1
46	Inkjet-Printing Enzyme Inhibitory Assay Based on Determination of Ejection Volume. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2009-2016	7.8	17
45	Highly Efficient and Rapid Neural Differentiation of Mouse Embryonic Stem Cells Based on Retinoic Acid Encapsulated Porous Nanoparticle. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34634-34640	9.5	13
44	Quantum-dot nanoprobe and AOTF based cross talk eliminated six color imaging of biomolecules in cellular system. <i>Analytica Chimica Acta</i> , <b>2017</b> , 985, 166-174	6.6	2
43	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> , <b>2017</b> , 166, 116-125	6.7	16
42	Synthesis, Characterization, and Antibacterial Activities of High-Valence Silver Propamide Nanoparticles. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 736	2.6	2

41	Insulin-mimetic and anti-inflammatory potential of a vanadyl-Schiff base complex for its application against diabetes. <i>RSC Advances</i> , <b>2016</b> , 6, 57530-57539	3.7	14
40	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> , <b>2016</b> , 408, 3233-8	4.4	2
39	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> , <b>2016</b> , 243, 31-9	4.4	8
38	Investigating the versatility of multifunctional silver nanoparticles: preparation and inspection of their potential as wound treatment agents. <i>International Nano Letters</i> , <b>2016</b> , 6, 51-63	5.7	13
37	Bifunctional Therapeutic High-Valence Silver-Pyridoxine Nanoparticles with Proliferative and Antibacterial Wound-Healing Activities. <i>Journal of Biomedical Nanotechnology</i> , <b>2016</b> , 12, 182-96	4	17
36	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> , <b>2016</b> , 8, 704-11	3.7	5
35	Quantum dot as probe for disease diagnosis and monitoring. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 31-42	5.6	37
34	Cell lysis-free quantum dot multicolor cellular imaging-based mechanism study for TNF- $\alpha$ induced insulin resistance. <i>Journal of Nanobiotechnology</i> , <b>2015</b> , 13, 4	9.4	12
33	Nanosized silver (II) pyridoxine complex to cause greater inflammatory response and less cytotoxicity to RAW264.7 macrophage cells. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 140	5	8
32	Quantum dot nanoprobe-based high-content monitoring of notch pathway inhibition of breast cancer stem cell by capsaicin. <i>Molecular and Cellular Probes</i> , <b>2015</b> , 29, 376-381	3.3	23
31	Mitochondria and DNA Targeting of 5,10,15,20-Tetrakis(7-sulfonatobenzo[b]thiophene) Porphyrin-Induced Photodynamic Therapy via Intrinsic and Extrinsic Apoptotic Cell Death. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 6864-74	8.3	59
30	Concurrent hypermulticolor monitoring of CD31, CD34, CD45 and CD146 endothelial progenitor cell markers for acute myocardial infarction. <i>Analytica Chimica Acta</i> , <b>2015</b> , 853, 501-507	6.6	13
29	Shape-Dependent Skin Penetration of Silver Nanoparticles: Does It Really Matter?. <i>Scientific Reports</i> , <b>2015</b> , 5, 16908	4.9	101
28	The Application of Bactericidal Silver Nanoparticles in Wound Treatment. <i>Nanomaterials and Nanotechnology</i> , <b>2015</b> , 5, 23	2.9	43
27	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> , <b>2015</b> , 51, 2118-21	5.8	12
26	Cytotoxicity mechanism of non-viral carriers polyethylenimine and poly-L-lysine using real time high-content cellular assay. <i>Polymer</i> , <b>2014</b> , 55, 5178-5188	3.9	24
25	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> , <b>2014</b> , 38, 3889-3898	3.6	17
24	Regional average intensity-based adherent cellular imaging: application to evaluation of drug-induced cardiotoxicity. <i>Analytical Methods</i> , <b>2014</b> , 6, 6015	3.2	

23	Single Cell Imaging Cytometry-Based High-Throughput Analysis of Drug-Induced Cardiotoxicity <b>2013</b> , 385-402		
22	High-content quantum dot-based subtype diagnosis and classification of breast cancer patients using hypermulticolor quantitative single cell imaging cytometry. <i>Nano Today</i> , <b>2012</b> , 7, 231-244	17.9	23
21	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> , <b>2012</b> , 214, 175-81	4.4	29
20	Highly sensitive polymerase chain reaction-free quantum dot-based quantification of forensic genomic DNA. <i>Analytica Chimica Acta</i> , <b>2012</b> , 721, 85-91	6.6	12
19	Simultaneous analysis of (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> , <b>2011</b> , 55, 1096-103	3.5	33
18	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> , <b>2011</b> , 879, 541-7	3.2	32
17	VEGF inhibitor (Iressa) arrests histone deacetylase expression: single-cell cotransfection imaging cytometry for multi-target-multi-drug analysis. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 2115-22	7	4
16	Quantification of UV-induced cyclobutane pyrimidine dimers using an oligonucleotide chip assay. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 2271-7	4.4	3
15	Development of radiation indicators to distinguish between irradiated and non-irradiated herbal medicines using HPLC and GC-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 943-53	4.4	8
14	Pulsed photostimulated- and thermo-luminescence investigations of $\gamma$ -irradiated herbs. <i>Food Chemistry</i> , <b>2010</b> , 122, 1290-1297	8.5	8
13	Evaluation of passive mixing behaviors in a pillar obstruction poly(dimethylsiloxane) microfluidic mixer using fluorescence microscopy. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 7, 267-273	2.8	40
12	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> , <b>2009</b> , 24, 3587-93	11.8	8
11	Interdigitated microelectrode array-coupled bipolar semiconductor photodiode array (IMEA-PDA) microchip for on-chip electrochemiluminescence detection. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 971-80	3.7	4
10	Identification of gamma-ray irradiated medicinal herbs using pulsed photostimulated luminescence, thermoluminescence, and electron spin resonance spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 1931-45	4.4	6
9	Synthesis of highly antibacterial nanocrystalline trivalent silver polydiguanylate. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16147-55	16.4	60
8	Photodiode array on-chip biosensor for the detection of E. coli O157:H7 pathogenic bacteria. <i>Methods in Molecular Biology</i> , <b>2009</b> , 503, 325-35	1.4	10
7	Green fluorescent protein (GFP) as a direct biosensor for mutation detection: elimination of false-negative errors in target gene expression. <i>Analytical Biochemistry</i> , <b>2008</b> , 380, 91-8	3.1	6
6	Determination of the dose-depth distribution of proton beam using resazurin assay in vitro and diode laser-induced fluorescence detection. <i>Analytica Chimica Acta</i> , <b>2007</b> , 593, 214-23	6.6	14

5	Development of a novel DNA chip based on a bipolar semiconductor microchip system. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 1447-53	11.8	10
4	Low noise bipolar photodiode array protein chip based on on-chip bioassay for the detection of E. coli O157:H7. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 565-72	3.7	6
3	Does the antibacterial activity of silver nanoparticles depend on the shape of the nanoparticle? A study of the Gram-negative bacterium Escherichia coli. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 1712-20	4.8	2878
2	DNA mutation analysis based on capillary electrochromatography using colloidal poly(N-isopropylacrylamide) particles as pseudostationary phase. <i>Talanta</i> , <b>2006</b> , 68, 940-4	6.2	11
1	Adsorption of cyanuric acid on activated carbon from aqueous solution: effect of carbon surface modification and thermodynamic characteristics. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 303, 39-48	8.3	17