

# Yong Shin

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

1,693  
citations

257450

24  
h-index

315739

38  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2215  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly sensitive Mach-Zehnder interferometer biosensor based on silicon nitride slot waveguide. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 681-688.	7.8	196
2	Real-time, label-free isothermal solid-phase amplification/detection (ISAD) device for rapid detection of genetic alteration in cancers. <i>Lab on A Chip</i> , 2013, 13, 2106.	6.0	76
3	Simple and Highly Sensitive Molecular Diagnosis of Zika Virus by Lateral Flow Assays. <i>Analytical Chemistry</i> , 2016, 88, 12272-12278.	6.5	73
4	Mach-Zehnder interferometer (MZI) point-of-care system for rapid multiplexed detection of microRNAs in human urine specimens. <i>Biosensors and Bioelectronics</i> , 2015, 71, 365-372.	10.1	55
5	Fecal microbial transplantation and a high fiber diet attenuates emphysema development by suppressing inflammation and apoptosis. <i>Experimental and Molecular Medicine</i> , 2020, 52, 1128-1139.	7.7	53
6	High-fiber diets attenuate emphysema development via modulation of gut microbiota and metabolism. <i>Scientific Reports</i> , 2021, 11, 7008.	3.3	53
7	Simple and Low-Cost Sampling of Cell-Free Nucleic Acids from Blood Plasma for Rapid and Sensitive Detection of Circulating Tumor DNA. <i>Advanced Science</i> , 2018, 5, 1800614.	11.2	52
8	High-throughput malaria parasite separation using a viscoelastic fluid for ultrasensitive PCR detection. <i>Lab on A Chip</i> , 2016, 16, 2086-2092.	6.0	48
9	CRISPR/dCas9-mediated biosensor for detection of tick-borne diseases. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 316-321.	7.8	47
10	Label-free DNA sensor for detection of bladder cancer biomarkers in urine. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 200-206.	7.8	44
11	Label-free methylation specific sensor based on silicon microring resonators for detection and quantification of DNA methylation biomarkers in bladder cancer. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 404-411.	7.8	43
12	An isothermal, label-free, and rapid one-step RNA amplification/detection assay for diagnosis of respiratory viral infections. <i>Biosensors and Bioelectronics</i> , 2017, 90, 187-194.	10.1	42
13	RNA-binding protein NONO contributes to cancer cell growth and confers drug resistance as a theranostic target in TNBC. <i>Theranostics</i> , 2020, 10, 7974-7992.	10.0	42
14	A rapid amplification/detection assay for analysis of <i>Mycobacterium tuberculosis</i> using an isothermal and silicon bio-photonic sensor complex. <i>Biosensors and Bioelectronics</i> , 2015, 68, 390-396.	10.1	41
15	LoMA-B: a simple and versatile lab-on-a-chip system based on single-channel bisulfite conversion for DNA methylation analysis. <i>Lab on A Chip</i> , 2015, 15, 3530-3539.	6.0	38
16	Solid phase nucleic acid extraction technique in a microfluidic chip using a novel non-chaotropic agent: dimethyl adipimidate. <i>Lab on A Chip</i> , 2014, 14, 359-368.	6.0	37
17	Rapid virus diagnostic system using bio-optical sensor and microfluidic sample processing. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2399-2406.	7.8	37
18	A microfluidic enrichment platform with a recombinase polymerase amplification sensor for pathogen diagnosis. <i>Analytical Biochemistry</i> , 2018, 544, 87-92.	2.4	34

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19	Rapid and sensitive detection of Salmonella based on microfluidic enrichment with a label-free nanobiosensing platform. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 588-594.	7.8	32
20	Mutation spectrum of the APC gene in 83 Korean FAP families. <i>Human Mutation</i> , 2005, 26, 281-281.	2.5	30
21	Simple and label-free pathogen enrichment via homobifunctional imidoesters using a microfluidic (SLIM) system for ultrasensitive pathogen detection in various clinical specimens. <i>Biosensors and Bioelectronics</i> , 2018, 111, 66-73.	10.1	29
22	Label-free, PCR-free chip-based detection of telomerase activity in bladder cancer cells. <i>Biosensors and Bioelectronics</i> , 2013, 45, 152-157.	10.1	28
23	A simple, low-cost, and rapid device for a DNA methylation-specific amplification/detection system using a flexible plastic and silicon complex. <i>Lab on A Chip</i> , 2014, 14, 4220-4229.	6.0	27
24	Rapid prototyping of multifunctional microfluidic cartridges for electrochemical biosensing platforms. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 60-66.	7.8	24
25	A rapid MZI-IDA sensor system for EGFR mutation testing in non-small cell lung cancer (NSCLC). <i>Biosensors and Bioelectronics</i> , 2015, 74, 865-871.	10.1	24
26	A single-tube approach for in vitro diagnostics using diatomaceous earth and optical sensor. <i>Biosensors and Bioelectronics</i> , 2018, 99, 443-449.	10.1	24
27	Two-stage sample-to-answer system based on nucleic acid amplification approach for detection of malaria parasites. <i>Biosensors and Bioelectronics</i> , 2016, 82, 1-8.	10.1	23
28	Large Instrument- and Detergent-Free Assay for Ultrasensitive Nucleic Acids Isolation via Binary Nanomaterial. <i>Analytical Chemistry</i> , 2018, 90, 5108-5115.	6.5	19
29	Chimeric nanocomposites for the rapid and simple isolation of urinary extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12195.	12.2	19
30	Self-powered switch-controlled nucleic acid extraction system. <i>Lab on A Chip</i> , 2016, 16, 132-141.	6.0	18
31	Use of Dimethyl Pimelimidate with Microfluidic System for Nucleic Acids Extraction without Electricity. <i>Analytical Chemistry</i> , 2017, 89, 7502-7510.	6.5	18
32	Dimethyl adipimidate/Thin film Sample processing (DTS); A simple, low-cost and versatile nucleic acid extraction assay for downstream analysis. <i>Scientific Reports</i> , 2015, 5, 14127.	3.3	17
33	Arch-shaped multiple-target sensing for rapid diagnosis and identification of emerging infectious pathogens. <i>Biosensors and Bioelectronics</i> , 2018, 119, 79-85.	10.1	17
34	A disposable lab-on-a-chip platform for highly efficient RNA isolation. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1491-1499.	7.8	16
35	Rapid Diagnosis of Tick-Borne Illnesses by Use of One-Step Isothermal Nucleic Acid Amplification and Bio-Optical Sensor Detection. <i>Clinical Chemistry</i> , 2018, 64, 556-565.	3.2	16
36	A robust, hand-powered, instrument-free sample preparation system for point-of-care pathogen detection. <i>Scientific Reports</i> , 2019, 9, 16374.	3.3	16

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37	Rapid and accurate detection of <i>KRAS</i> mutations in colorectal cancers using the isothermal-based optical sensor for companion diagnostics. <i>Oncotarget</i> , 2017, 8, 83860-83871.	1.8	15
38	Molecular detection of <i>Coxiella burnetii</i> in heart valve tissue from patients with culture-negative infective endocarditis. <i>Medicine (United States)</i> , 2018, 97, e11881.	1.0	15
39	Diagnostic usefulness of molecular detection of <i>Coxiella burnetii</i> from blood of patients with suspected acute Q fever. <i>Medicine (United States)</i> , 2019, 98, e15724.	1.0	15
40	A novel nucleic acid amplification system based on nano-gap embedded active disk resonators. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128351.	7.8	15
41	Improved Reversible Cross-Linking-Based Solid-Phase RNA Extraction for Pathogen Diagnostics. <i>Analytical Chemistry</i> , 2018, 90, 1725-1733.	6.5	13
42	Rapid and label-free amplification and detection assay for genotyping of cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2015, 68, 107-114.	10.1	12
43	Cucurbituril-Based Reusable Nanocomposites for Efficient Molecular Encapsulation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5440-5448.	6.7	12
44	A rapid bio-optical sensor for diagnosing Q fever in clinical specimens. <i>Journal of Biophotonics</i> , 2018, 11, e201700167.	2.3	11
45	A Simple Microfluidic Assay for Diagnosing Tuberculous Meningitis in HIV-Uninfected Patients. <i>Journal of Clinical Microbiology</i> , 2019, 57, .	3.9	10
46	Molecular detection of <i>Coxiella burnetii</i> from the formalin-fixed tissues of Q fever patients with acute hepatitis. <i>PLoS ONE</i> , 2017, 12, e0180237.	2.5	10
47	Green Synthesis-Based Magnetic Diatoms for Biological Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3439-3451.	6.7	9
48	An enhanced recyclable 3D adsorbent for diverse bio-applications using biocompatible magnetic nanomulberry and cucurbituril composites. <i>Scientific Reports</i> , 2020, 10, 443.	3.3	8
49	Dimethyl 3,3'-dithiobispropionimidate (DTBP) as a cleavable disulfide-based polymer to encapsulate nucleic acids in biological sample preparation. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 225-231.	7.8	7
50	Bis(sulfosuccinimidyl)suberate-Based Helix-Shaped Microchannels as Enhancers of Biomolecule Isolation from Liquid Biopsies. <i>Analytical Chemistry</i> , 2020, 92, 11994-12001.	6.5	7
51	Trends and challenges of nanotechnology in self-test at home. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116438.	11.4	7
52	Diatomaceous earth/zinc oxide micro-composite assisted antibiotics in fungal therapy. <i>Nano Convergence</i> , 2021, 8, 32.	12.1	7
53	Homobifunctional Imidoester Combined Black Phosphorus Nanosheets Used as Cofactors for Nucleic Acid Extraction. <i>Biochip Journal</i> , 2022, 16, 58-66.	4.9	7
54	A solid phase-bridge based DNA amplification technique with fluorescence signal enhancement for detection of cancer biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 220-225.	7.8	6

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55	A homobifunctional imidoester-based microfluidic system for simultaneous DNA and protein isolation from solid or liquid biopsy samples. <i>Lab on A Chip</i> , 2019, 19, 2256-2264.	6.0	6
56	A Sample Preparation Technique Using Biocompatible Composites for Biomedical Applications. <i>Molecules</i> , 2019, 24, 1321.	3.8	6
57	An RNA-binding-protein, NONO governs energy metabolism by regulating NAMPT in lung cancer. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 376-382.	2.1	6
58	Analysis of microsatellite instability in stool DNA of patients with colorectal cancer using denaturing high performance liquid chromatography. <i>World Journal of Gastroenterology</i> , 2006, 12, 6689.	3.3	6
59	Gene-Based Diagnosis of Tuberculosis from Oral Swabs with a New Generation Pathogen Enrichment Technique. <i>Microbiology Spectrum</i> , 2022, 10, e0020722.	3.0	6
60	Three novel VHL germline mutations in Korean patients with von Hippel-Lindau disease and pheochromocytomas. <i>Oncology Reports</i> , 2005, 14, 879.	2.6	5
61	A biocomposite-based rapid sampling assay for circulating cell-free DNA in liquid biopsy samples from human cancers. <i>Scientific Reports</i> , 2020, 10, 14932.	3.3	5
62	Floating Magnetic Membrane for Rapid Enrichment of Pathogenic Bacteria. <i>Biochip Journal</i> , 2021, 15, 61-68.	4.9	5
63	Utility of plasma cell-free DNA detection using homobifunctional imidoesters using a microfluidic system for diagnosing active tuberculosis. <i>Infectious Diseases</i> , 2022, 54, 46-52.	2.8	5
64	Detection of <i>Coxiella burnetii</i> Using Silicon Microring Resonator in Patient Blood Plasma. <i>Micromachines</i> , 2019, 10, 427.	2.9	4
65	Cancer Cell Detection on the Surface of Top-Gated Monolayer Graphene via Raman Spectroscopy. <i>ACS Applied Bio Materials</i> , 2021, 4, 1493-1498.	4.6	4
66	Rapid Molecular Diagnostic Sensor Based on Ball-Lensed Optical Fibers. <i>Biosensors</i> , 2021, 11, 125.	4.7	4
67	A Simple and Rapid Fungal DNA Isolation Assay Based on ZnO Nanoparticles for the Diagnosis of Invasive Aspergillosis. <i>Micromachines</i> , 2020, 11, 515.	2.9	4
68	Rapid COVID-19 Molecular Diagnostic System Using Virus Enrichment Platform. <i>Biosensors</i> , 2021, 11, 373.	4.7	4
69	Molecular diagnosis of <i>Coxiella burnetii</i> in culture negative endocarditis and vascular infection in South Korea. <i>Annals of Medicine</i> , 2021, 53, 2258-2267.	3.8	4
70	A novel platform using homobifunctional hydrazide for enrichment and isolation of urinary circulating <i>scp</i> RNAs. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	4
71	Integrated silicon microring resonator devices for point-of-care diagnostic applications. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
72	Gene-based diagnosis of tuberculosis with a new-generation pathogen enrichment technique. <i>European Respiratory Journal</i> , 2020, 55, 1901885.	6.7	3

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73	Familial gastric cancers with Li-Fraumeni Syndrome: A case report. World Journal of Gastroenterology, 2005, 11, 4124.	3.3	3
74	Mammalian Ssu72 phosphatase preferentially considers tissue-specific actively transcribed gene expression by regulating RNA Pol II transcription. Theranostics, 2022, 12, 186-206.	10.0	3
75	Facile Homobifunctional Imidoester Modification of Advanced Nanomaterials for Enhanced Antibiotic Synergistic Effect. ACS Applied Materials & Interfaces, 2021, 13, 40401-40414.	8.0	2
76	Simple and sensitive diagnosis of invasive aspergillosis using triphasic DE <sup>+</sup> ZnO <sup>+</sup> APDMS microparticle composite. Sensors and Actuators B: Chemical, 2021, 346, 130487.	7.8	2
77	Development of multiplexed silicon dual microring sensor for the detection of bladder cancer markers. , 2012, , .		1
78	Dimethyl 3,3'-dithiobispropionimidate-functionalized diatomaceous earth particles for efficient biomolecule separation. Scientific Reports, 2020, 10, 15592.	3.3	1
79	Multi-Sample Preparation Assay for Isolation of Nucleic Acids Using Bio-Silica with Syringe Filters. Micromachines, 2020, 11, 823.	2.9	1
80	Detection of bladder cancer related DNA biomarkers using silicon microring resonators. , 2012, , .		0
81	Abstract 1761: A rapid and accurate nucleic acid amplification and detection method for KRAS mutation testing in colorectal cancer specimens. , 2017, , .		0
82	Analysis of KRAS Mutation Subtype in Tissue DNA and Cell-Free DNA Using Droplet Digital PCR and the Function of Cell-Free DNA as a Recurrence Predictive Marker in Pancreatic Cancer. Biomedicines, 2021, 9, 1599.	3.2	0
83	Rapid and Sensitive Diagnosis of Tuberculosis with a Gene-based Microfluidic Platform. , 2020, , .		0