

# Tzuen-Rong Tzeng

## List of Publications by Year in descending order

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59  
papers

1,485  
citations

331259

21  
h-index

315357

38  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1865  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyphenol effects on CuO-nanoparticle-mediated DNA damage, reactive oxygen species generation, and fibroblast cell death. <i>Toxicology in Vitro</i> , 2022, 78, 105252.	1.1	8
2	Bioanalytical approaches for the detection, characterization, and risk assessment of micro/nanoplastics in agriculture and food systems. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4591-4612.	1.9	6
3	The effect of surface roughness and chitosan deposition volume on microbial growth in biofilm involving titanium surfaces for orthopaedic applications. <i>Materialia</i> , 2022, 24, 101481.	1.3	0
4	Detecting and correlating bacterial populations to visual color change of polydiacetylene-coated filters. <i>Talanta</i> , 2021, 221, 121482.	2.9	2
5	FEAST of biosensors: Food, environmental and agricultural sensing technologies (FEAST) in North America. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113011.	5.3	19
6	AC Insulator-Based Dielectrophoretic Focusing of Particles and Cells in an Infinite Microchannel. <i>Analytical Chemistry</i> , 2021, 93, 5947-5953.	3.2	20
7	Effects of Dietary Inclusion of Dry Hydrastis canadensis on Laying Performance, Egg Quality, Serum Biochemical Parameters and Cecal Microbiota in Laying Hens. <i>Animals</i> , 2021, 11, 1381.	1.0	2
8	Efficacy of a plasma-deposited, vancomycin/chitosan antibiotic coating for orthopaedic devices in a bacterially challenged rabbit model. <i>Materialia</i> , 2021, 17, 101122.	1.3	4
9	Assessing the Biocompatibility of Multi-Anchored Glycoconjugate Functionalized Iron Oxide Nanoparticles in a Normal Human Colon Cell Line CCD-18Co. <i>Nanomaterials</i> , 2021, 11, 2465.	1.9	1
10	Conformal Coating of Orthopedic Plates with X-ray Scintillators and pH Indicators for X-ray Excited Luminescence Chemical Imaging through Tissue. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52343-52353.	4.0	7
11	A proposed mechanism to induce multi-layer polydiacetylene-coated filter color response to bacteria. <i>Results in Chemistry</i> , 2020, 2, 100065.	0.9	1
12	Passive Dielectrophoretic Focusing of Particles and Cells in Ratchet Microchannels. <i>Micromachines</i> , 2020, 11, 451.	1.4	15
13	Revisit of wall-induced lateral migration in particle electrophoresis through a straight rectangular microchannel: Effects of particle zeta potential. <i>Electrophoresis</i> , 2019, 40, 955-960.	1.3	8
14	An implanted pH sensor read using radiography. <i>Analyst, The</i> , 2019, 144, 2984-2993.	1.7	18
15	Glucarubulone glucoside from <i>Castela macrophylla</i> suppresses MCF7 breast cancer cell growth and attenuates benzo[a]pyrene-mediated CYP1A gene induction. <i>Journal of Applied Toxicology</i> , 2017, 37, 873-883.	1.4	4
16	X-ray excited luminescent chemical imaging (XELCI) for non-invasive imaging of implant infections. <i>Proceedings of SPIE</i> , 2017, 10081, .	0.8	3
17	Multianchored Glycoconjugate-Functionalized Magnetic Nanoparticles: A Tool for Selective Killing of Targeted Bacteria via Alternating Magnetic Fields. <i>Advanced Functional Materials</i> , 2017, 27, 1701473.	7.8	27
18	Charge-based separation of particles and cells with similar sizes via the wall-induced electrical lift. <i>Electrophoresis</i> , 2017, 38, 320-326.	1.3	10

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19	&lt;i>Electroflotation of Escherichia coli Improves Detection Rates by Loop-mediated Isothermal Amplification&lt;/i>, 2017, , .		0
20	Abstract 4314: Exclusive delivery ofmazFin cancer cells byListeria monocytogenes. , 2017, , .		1
21	Enhanced Throughput for Electrokinetic Manipulation of Particles and Cells in a Stacked Microfluidic Device. Micromachines, 2016, 7, 156.	1.4	6
22	Time domain detection and differentiation of single particles and cells with a radio frequency interferometer. , 2016, , .		5
23	Abstract 3521: The effect of MazF, Escherichia coli ribonuclease, on gastric adenocarcinoma (AGS) Tj ETQq1 1 0.784314 rgBT <sub>2</sub> /Overlook		
24	Electrokinetic preconcentration of particles and cells in microfluidic reservoirs. Analyst, The, 2015, 140, 2869-2875.	1.7	33
25	Xâ€Ray Excited Luminescence Chemical Imaging of Bacterial Growth on Surfaces Implanted in Tissue. Advanced Healthcare Materials, 2015, 4, 903-910.	3.9	15
26	Synthesis and application of glycoconjugate-functionalized magnetic nanoparticles as potent anti-adhesion agents for reducing enterotoxigenic Escherichia coli infections. Nanoscale, 2015, 7, 8326-8331.	2.8	10
27	Highly stable multi-anchored magnetic nanoparticles for optical imaging within biofilms. Journal of Colloid and Interface Science, 2015, 459, 175-182.	5.0	13
28	Development of Luminescent pH Sensor Films for Monitoring Bacterial Growth Through Tissue. Advanced Healthcare Materials, 2014, 3, 197-204.	3.9	48
29	Exploiting magnetic asymmetry to concentrate diamagnetic particles in ferrofluid microflows. Journal of Applied Physics, 2014, 115, 044907.	1.1	28
30	Enhanced fed-batch production, partial purification, characterization of jenseniin P, and discovery of a new bacteriocin-like substance produced by Propionibacterium jensenii B1264. European Food Research and Technology, 2014, 239, 79-86.	1.6	5
31	Magnetic concentration of particles and cells in ferrofluid flow through a straight microchannel using attracting magnets. Microfluidics and Nanofluidics, 2013, 15, 49-55.	1.0	48
32	Size-dependent cellular toxicity and uptake of commercial colloidal gold nanoparticles in DU-145 cells. Cancer Nanotechnology, 2013, 4, 13-20.	1.9	18
33	Magnetic separation of particles and cells in ferrofluid flow through a straight microchannel using two offset magnets. Journal of Magnetism and Magnetic Materials, 2013, 346, 118-123.	1.0	109
34	A quantitative structureâ€activity relationship (QSAR) study on glycan array data to determine the specificities of glycan-binding proteins. Glycobiology, 2012, 22, 552-560.	1.3	22
35	Microfluidic separation of live and dead yeast cells using reservoir-based dielectrophoresis. Biomicrofluidics, 2012, 6, 34102.	1.2	111
36	Three-dimensional magnetic focusing of particles and cells in ferrofluid flow through a straight microchannel. Journal of Micromechanics and Microengineering, 2012, 22, 105018.	1.5	45

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37	Binding of Escherichia coli to Functionalized Gold Nanoparticles. Plasmonics, 2012, 7, 301-308.	1.8	13
38	Continuous-flow particle and cell separations in a serpentine microchannel via curvature-induced dielectrophoresis. Microfluidics and Nanofluidics, 2011, 11, 743-752.	1.0	55
39	Adhesin-Specific Nanomechanical Cantilever Biosensors for Detection of Microorganisms. Journal of Heat Transfer, 2011, 133, .	1.2	10
40	Continuous dielectrophoretic separation of particles in a spiral microchannel. Electrophoresis, 2010, 31, 1382-1388.	1.3	72
41	Integrated electrical concentration and lysis of cells in a microfluidic chip. Biomicrofluidics, 2010, 4, 044101.	1.2	38
42	Effect of laser fluence in laser-assisted direct writing of human colon cancer cell. Rapid Prototyping Journal, 2010, 16, 202-208.	1.6	54
43	Distinguishing the viability of a single yeast cell with an ultra-sensitive radio frequency sensor. Lab on A Chip, 2010, 10, 553.	3.1	94
44	Dielectrophoretic Separation of Microparticles in Curved Microchannels. , 2009, , .		0
45	Electrokinetic focusing and filtration of cells in a serpentine microchannel. Biomicrofluidics, 2009, 3, 44109.	1.2	69
46	Effect of laser fluence on yeast cell viability in laser-assisted cell transfer. Journal of Applied Physics, 2009, 106, .	1.1	43
47	Broadband Dielectric Properties Characterization of Biological Cells. , 2009, , .		1
48	DC dielectrophoretic focusing of particles in a serpentine microchannel. Microfluidics and Nanofluidics, 2009, 7, 751-756.	1.0	94
49	Dielectrophoretic Focusing of Microparticles in Curved Microchannels. , 2009, , .		1
50	Electric Trapping and Lysing of Cells in a Microchannel Constriction. , 2009, , .		0
51	Gentle Dielectrophoretic Focusing of Yeast Cells in Curved Microchannels. , 2009, , .		0
52	Adhesin-Specific Nanomechanical Cantilever Biosensors for Detection of Microorganisms. , 2009, , .		0
53	The Antibacterial Effects of Biphasic Brookite-Anatase Titanium Dioxide Nanoparticles on Multiple-Drug-Resistant <i>Staphylococcus aureus</i> . Journal of Biomedical Nanotechnology, 2008, 4, 339-348.	0.5	22
54	<i>In Vitro</i> and <i>In Vivo</i> Biocompatibility of Mannosylated Polystyrene Nanoparticles. Journal of Biomedical Nanotechnology, 2006, 2, 1-10.	0.5	11

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55	Single-walled carbon nanotubes displaying multivalent ligands for capturing pathogens. <i>Chemical Communications</i> , 2005, , 874.	2.2	129
56	Galactosylated Polymeric Nanoparticles: Synthesis and Adhesion Interactions with <i>Escherichia coli</i> . <i>Journal of Biomedical Nanotechnology</i> , 2005, 1, 61-67.	0.5	15
57	Quantitative Analysis of Bacterial Aggregation Mediated by Bioactive Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2005, 1, 291-296.	0.5	13
58	Visualizing Adhesion-Induced Agglutination of <i>Escherichia coli</i> with Mannosylated Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 319-322.	0.9	34
59	Identification of four structural genes and two putative promoters necessary for utilization of phenanthrene naphthalene, fluoranthene, and by <i>Sphingomonas paucimobilis</i> var. EPA505.. <i>Gene</i> , 2000, 260, 155-169.	1.0	43