

Fan-Gang Tseng

List of Publications by Year in descending order

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324
papers

5,466
citations

101543

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docs citations

327
times ranked

6661
citing authors

#	ARTICLE	IF	CITATIONS
1	Tri-functionalization of mesoporous silica nanoparticles for comprehensive cancer theranostics—the trio of imaging, targeting and therapy. <i>Journal of Materials Chemistry</i> , 2010, 20, 6149.	6.7	200
2	Substrate Curvature Gradient Drives Rapid Droplet Motion. <i>Physical Review Letters</i> , 2014, 113, 026101.	7.8	162
3	Mesoporous silica nanoparticles functionalized with an oxygen-sensing probe for cell photodynamic therapy: potential cancer theranostics. <i>Journal of Materials Chemistry</i> , 2009, 19, 1252.	6.7	147
4	Bubble dynamics in microchannels. Part I: single microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 5575-5589.	4.8	136
5	A novel fabrication method of embedded micro-channels by using SU-8 thick-film photoresists. <i>Sensors and Actuators A: Physical</i> , 2003, 103, 64-69.	4.1	133
6	Microfluidic systems integrated with two-dimensional surface plasmon resonance phase imaging systems for microarray immunoassay. <i>Biosensors and Bioelectronics</i> , 2007, 23, 466-472.	10.1	114
7	Reduction of diffraction effect of UV exposure on SU-8 negative thick photoresist by air gap elimination. <i>Microsystem Technologies</i> , 2002, 8, 308-313.	2.0	107
8	Microfluidic Systems for Biosensing. <i>Sensors</i> , 2010, 10, 6623-6661.	3.8	95
9	Ethanol-CO ₂ two-phase flow in diverging and converging microchannels. <i>International Journal of Multiphase Flow</i> , 2005, 31, 548-570.	3.4	93
10	Spontaneous high-speed transport of subnanoliter water droplet on gradient nanotextured surfaces. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	92
11	Visualizing Dynamics of Sub-Hepatic Distribution of Nanoparticles Using Intravital Multiphoton Fluorescence Microscopy. <i>ACS Nano</i> , 2012, 6, 4122-4131.	14.6	90
12	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part I: concept, design, and model. <i>Journal of Microelectromechanical Systems</i> , 2002, 11, 427-436.	2.5	82
13	A monolithically three-dimensional flow-focusing device for formation of single/double emulsions in closed/open microfluidic systems. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 2336-2344.	2.6	76
14	Bubble dynamics in microchannels. Part II: two parallel microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 5591-5601.	4.8	73
15	Nanoparticle-Based in Vivo Investigation on Blood-Brain Barrier Permeability Following Ischemia and Reperfusion. <i>Analytical Chemistry</i> , 2004, 76, 4465-4471.	6.5	70
16	Current Trends of Microfluidic Single-Cell Technologies. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3143.	4.1	63
17	Recent Trends on Micro/Nanofluidic Single Cell Electroporation. <i>Micromachines</i> , 2013, 4, 333-356.	2.9	61
18	Engineering the 3D architecture and hydrophobicity of methyltrichlorosilane nanostructures. <i>Nanotechnology</i> , 2008, 19, 345603.	2.6	60

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19	Dynamics of hydrogen nanobubbles in KLH protein solution studied with in situ wet-TEM. <i>Soft Matter</i> , 2013, 9, 8856.	2.7	57
20	Well-defined mesoporous nanostructure modulates three-dimensional interface energy transfer for two-photon activated photodynamic therapy. <i>Nano Today</i> , 2011, 6, 552-563.	11.9	56
21	Gradient static-strain stimulation in a microfluidic chip for 3D cellular alignment. <i>Lab on A Chip</i> , 2014, 14, 482-493.	6.0	56
22	Mechanical strength and interfacial failure analysis of cantilevered SU-8 microposts. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 822-831.	2.6	53
23	Rapid fabrication of three-dimensional gold dendritic nanoforests for visible light-enhanced methanol oxidation. <i>Electrochimica Acta</i> , 2016, 192, 15-21.	5.2	51
24	Application of 3D glycerol-compensated inclined-exposure technology to an integrated optical pick-up head. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 975-983.	2.6	50
25	AC electroosmotic generated in-plane microvortices for stationary or continuous fluid mixing. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 326-336.	7.8	50
26	Near-infrared nanosecond-pulsed laser-activated highly efficient intracellular delivery mediated by nano-corrugated mushroom-shaped gold-coated polystyrene nanoparticles. <i>Nanoscale</i> , 2020, 12, 12057-12067.	5.6	49
27	Fundamental studies on micro-droplet movement by Marangoni and capillary effects. <i>Sensors and Actuators A: Physical</i> , 2004, 114, 292-301.	4.1	46
28	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part II: fabrication, implementation, and characterization. <i>Journal of Microelectromechanical Systems</i> , 2002, 11, 437-447.	2.5	45
29	Nanostructured pillars based on vertically aligned carbon nanotubes as the stationary phase in micro-CEC. <i>Electrophoresis</i> , 2009, 30, 2025-2031.	2.4	43
30	Leptospiral Outer Membrane Lipoprotein LipL32 Binding on Toll-like Receptor 2 of Renal Cells As Determined with an Atomic Force Microscope. <i>Biochemistry</i> , 2010, 49, 5408-5417.	2.5	43
31	Copper Sulfide Nanoassemblies for Catalytic and Photoresponsive Eradication of Bacteria from Infected Wounds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7865-7878.	8.0	43
32	Self-aligned wet-cell for hydrated microbiology observation in TEM. <i>Lab on A Chip</i> , 2012, 12, 340-347.	6.0	42
33	DFT Insights into Comparative Hydrogen Adsorption and Hydrogen Spillover Mechanisms of Pt ₄ /Graphene and Pt ₄ /Anatase (101) Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25618-25627.	3.1	39
34	Polymer mems-based fabry-perot shear stress sensor. <i>IEEE Sensors Journal</i> , 2003, 3, 812-817.	4.7	38
35	Micropatterned stretching system for the investigation of mechanical tension on neural stem cells behavior. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 345-355.	3.3	38
36	Detection of K ⁺ Efflux from Stimulated Cortical Neurons by an Aptamer-Modified Silicon Nanowire Field-Effect Transistor. <i>ACS Sensors</i> , 2017, 2, 69-79.	7.8	38

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37	Tuning the photoluminescence of metal nanoclusters for selective detection of multiple heavy metal ions. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128539.	7.8	38
38	Development of a monolithic total internal reflection-based biochip utilizing a microprism array for fluorescence sensing. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 2235-2242.	2.6	36
39	Evaporation evolution of volatile liquid droplets in nanoliter wells. <i>Sensors and Actuators A: Physical</i> , 2006, 130-131, 12-19.	4.1	35
40	Microfluidic nanomaterials: From synthesis to biomedical applications. <i>Biomaterials</i> , 2022, 280, 121247.	11.4	35
41	A surface-tension-driven fluidic network for precise enzyme batch-dispensing and glucose detection. <i>Sensors and Actuators A: Physical</i> , 2004, 111, 107-117.	4.1	34
42	Low-Temperature Thermally Reduced Molybdenum Disulfide as a Pt-Free Counter Electrode for Dye-Sensitized Solar Cells. <i>Nanoscale Research Letters</i> , 2015, 10, 446.	5.7	34
43	Delivery of molecules into cells using localized single cell electroporation on ITO micro-electrode based transparent chip. <i>Biomedical Microdevices</i> , 2012, 14, 811-817.	2.8	33
44	High-throughput flowing upstream sperm sorting in a retarding flow field for human semen analysis. <i>Analyst</i> , 2017, 142, 938-944.	3.5	33
45	Infrared Pulse Laser-Activated Highly Efficient Intracellular Delivery Using Titanium Microdish Device. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5645-5652.	5.2	33
46	Effective Enhancement of Fluorescence Detection Efficiency in Protein Microarray Assays: Application of a Highly Fluorinated Organosilane as the Blocking Agent on the Background Surface by a Facile Vapor-Phase Deposition Process. <i>Analytical Chemistry</i> , 2009, 81, 7908-7916.	6.5	32
47	Tuning nano electric field to affect restrictive membrane area on localized single cell nano-electroporation. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	32
48	Impact of pulse duration on localized single-cell nano-electroporation. <i>Analyst</i> , 2014, 139, 6249-6258.	3.5	32
49	A low-temperature partial-oxidation-methanol micro reformer with high fuel conversion rate and hydrogen production yield. <i>Applied Energy</i> , 2015, 138, 21-30.	10.1	32
50	Au-Coated Polystyrene Nanoparticles with High-Aspect-Ratio Nanocorrugations via Surface-Carboxylation-Shielded Anisotropic Etching for Significant SERS Signal Enhancement. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16258-16267.	3.1	31
51	Fluid filling into micro-fabricated reservoirs. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 131-138.	4.1	30
52	Phase TEM for biological imaging utilizing a Boersch electrostatic phase plate: theory and practice. <i>Journal of Electron Microscopy</i> , 2009, 58, 137-145.	0.9	30
53	Three-dimensional vertically aligned hybrid nanoarchitecture of two-dimensional molybdenum disulfide nanosheets anchored on directly grown one-dimensional carbon nanotubes for use as a counter electrode in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 692, 941-949.	5.5	30
54	Ultra-sensitive electrochemical detection of bacteremia enabled by redox-active gold nanoparticles (raGNPs) in a nano-sieving microfluidic system (NS-MFS). <i>Biosensors and Bioelectronics</i> , 2019, 133, 215-222.	10.1	30

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55	Nano-localized single-cell nano-electroporation. <i>Lab on A Chip</i> , 2020, 20, 4194-4204.	6.0	30
56	Development of Surface-Enhanced Raman Scattering (SERS)-Based Surface-Corrugated Nanopillars for Biomolecular Detection of Colorectal Cancer. <i>Biosensors</i> , 2020, 10, 163.	4.7	30
57	A Simple Fiber Bragg Grating-Based Sensor Network Architecture with Self-Protecting and Monitoring Functions. <i>Sensors</i> , 2011, 11, 1375-1382.	3.8	29
58	Cotton-based Diagnostic Devices. <i>Scientific Reports</i> , 2014, 4, 6976.	3.3	29
59	Uniform Solute Deposition of Evaporable Droplet in Nanoliter Wells. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1209-1218.	2.5	28
60	A gold-nanoparticle-enhanced immune sensor based on fiber optic interferometry. <i>Nanotechnology</i> , 2008, 19, 345501.	2.6	28
61	Self-masked high-aspect-ratio polymer nanopillars. <i>Nanotechnology</i> , 2008, 19, 505301.	2.6	28
62	Essential Calcium-binding Cluster of <i>Leptospira</i> LipL32 Protein for Inflammatory Responses through the Toll-like Receptor 2 Pathway. <i>Journal of Biological Chemistry</i> , 2013, 288, 12335-12344.	3.4	28
63	A high-yield and ultra-low-temperature methanol reformer integratable with phosphoric acid fuel cell (PAFC). <i>Energy</i> , 2017, 133, 1142-1152.	8.8	28
64	A Single-Neuron: Current Trends and Future Prospects. <i>Cells</i> , 2020, 9, 1528.	4.1	28
65	Simultaneous immobilization of protein microarrays by a micro stamper with back-filling reservoir. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 174-185.	7.8	27
66	The fabrication and application of Zernike electrostatic phase plate. <i>Journal of Electron Microscopy</i> , 2007, 55, 273-280.	0.9	27
67	Self-Assembly in Micro- and Nanofluidic Devices: A Review of Recent Efforts. <i>Micromachines</i> , 2011, 2, 17-48.	2.9	27
68	Nitrogen-doped carbon nanodots prepared from polyethylenimine for fluorometric determination of salivary uric acid. <i>Mikrochimica Acta</i> , 2019, 186, 166.	5.0	27
69	Surface tension driven flow for open microchannels with different turning angles. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 193-203.	2.2	26
70	Stable and wavelength-tunable silicon-micro-ring-resonator based erbium-doped fiber laser. <i>Optics Express</i> , 2013, 21, 2869.	3.4	26
71	ppb-level heavy metal ion detection by electrochemistry-assisted nanoPorous silicon (ECA-NPS) photonic sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 75-83.	7.8	26
72	Capping 1,3-propanedithiol to boost the antibacterial activity of protein-templated copper nanoclusters. <i>Journal of Hazardous Materials</i> , 2020, 389, 121821.	12.4	26

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73	Dual hierarchical biomimic superhydrophobic surface with three energy states. Applied Physics Letters, 2009, 95, .	3.3	25
74	Probing quenched dye fluorescence of Cy3-DNA-Au-nanoparticle hybrid conjugates using solution and array platforms. Journal of Colloid and Interface Science, 2012, 371, 34-41.	9.4	25
75	Desalination of saline water by nanochannel arrays through manipulation of electrical double layer. Nano Energy, 2015, 12, 394-400.	16.0	25
76	Shutter glasses stereo LCD with a dynamic backlight. Proceedings of SPIE, 2009, , .	0.8	24
77	Structural and tribological properties of diamond-like nanocomposite thin films. Surface and Coatings Technology, 2011, 206, 228-233.	4.8	24
78	Modification of Photon Emission Statistics from Single Colloidal CdSe Quantum Dots by Conductive Materials. Journal of Physical Chemistry C, 2014, 118, 18126-18132.	3.1	24
79	Dielectric passivation layer as a substratum on localized single-cell electroporation. RSC Advances, 2016, 6, 10979-10986.	3.6	24
80	Quasi-2D liquid cell for high density hydrogen storage. Nano Energy, 2017, 31, 218-224.	16.0	24
81	A micro Fabry-Perot sensor for nano-lateral displacement sensing with enhanced sensitivity and pressure resistance. Sensors and Actuators A: Physical, 2004, 114, 163-170.	4.1	23
82	Continuous affinity-gradient nano-stationary phase served as a column for reversed-phase electrochromatography and matrix carrier in time-of-flight mass spectrometry for protein analysis. Analytica Chimica Acta, 2015, 889, 166-171.	5.4	23
83	High density and through wafer copper interconnections and solder bumps for MEMS wafer-level packaging. Microsystem Technologies, 2004, 10, 517-521.	2.0	22
84	Active Components of Leptospira Outer Membrane Protein LipL32 to Toll-Like Receptor 2. Scientific Reports, 2017, 7, 8363.	3.3	22
85	High-performance and low-leakage phosphoric acid fuel cell with synergic composite membrane stacking of micro glass microfiber and nano PTFE. Renewable Energy, 2019, 134, 982-988.	8.9	22
86	Pulsed laser assisted high-throughput intracellular delivery in hanging drop based three dimensional cancer spheroids. Analyst, The, 2021, 146, 4756-4766.	3.5	22
87	Molecular dynamics simulation of the enhancement of cobra cardiotoxin and E6 protein binding on mixed self-assembled monolayer molecules. Nanotechnology, 2006, 17, S8-S13.	2.6	21
88	Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. ACS Applied Materials & Interfaces, 2020, 12, 19840-19854.	8.0	21
89	Design and fabrication of a copolymer aspheric bi-convex lens utilizing thermal energy and electrostatic force in a dynamic fluidic. Optics Express, 2010, 18, 6014.	3.4	20
90	Design and fabrication of a microplatform for the proximity effect study of localized ELF-EMF on the growth of in vitro HeLa and PC-12 cells. Journal of Micromechanics and Microengineering, 2010, 20, 125023.	2.6	20

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91	Highly-Sensitive Non-Enzymatic Glucose Sensor via Nano Platinum Crystals Fabricated by Phase-Controlled Electrochemical Deposition. <i>Journal of the Electrochemical Society</i> , 2018, 165, B48-B54.	2.9	20
92	High aspect ratio ultrathick micro-stencil by JSR THB-430N negative UV photoresist. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 764-770.	4.1	19
93	A microfluidic nanoliter mixer with optimized grooved structures driven by capillary pumping. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1358-1365.	2.6	19
94	Electrostatic-Force-Modulated Microspherical Lens for Optical Pickup Head. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 370-380.	2.5	19
95	Paper-based CRP Monitoring Devices. <i>Scientific Reports</i> , 2016, 6, 38171.	3.3	19
96	A novel microinjector with virtual chamber neck. , 0, , .		18
97	Electrocatalytic properties improvement on carbon-nanotubes coated reaction surface for micro-DMFC. <i>Journal of Power Sources</i> , 2007, 167, 413-419.	7.8	18
98	Microfluidic mechanoporation for cellular delivery and analysis. <i>Materials Today Bio</i> , 2022, 13, 100193.	5.5	18
99	Application of 3D gray mask for the fabrication of curved SU-8 structures. <i>Microsystem Technologies</i> , 2005, 11, 365-369.	2.0	17
100	Surface Tension Driven and 3-D Vortex Enhanced Rapid Mixing Microchamber. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 659-670.	2.5	17
101	A wettability switchable surface by microscale surface morphology change. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 489-495.	2.6	17
102	Fabrication and modification of dual-faced nano-mushrooms for tri-functional cell theranostics: SERS/fluorescence signaling, protein targeting, and drug delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 20918.	6.7	17
103	Micro/Nanofluidic Devices for Single Cell Analysis. <i>Micromachines</i> , 2014, 5, 154-157.	2.9	17
104	Precise [100] crystal orientation determination on $\hat{A}110\hat{A}$ -oriented silicon wafers. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 47-52.	2.6	16
105	Off-angle illumination induced surface plasmon coupling in subwavelength metallic slits. <i>Optics Express</i> , 2005, 13, 10784.	3.4	16
106	Micro-patternable nanoporous polymer integrated with microstructures for molecular filtration. <i>Nanotechnology</i> , 2008, 19, 365301.	2.6	16
107	Surface enhanced Raman scattering (SERS) based biomicrofluidics systems for trace protein analysis. <i>Biomicrofluidics</i> , 2018, 12, 011502.	2.4	16
108	Laser printer patterned sacrificed layer for arbitrary design and scalable fabrication of the all-solid-state interdigitated in-planar hydrous ruthenium oxide flexible micro supercapacitors. <i>Journal of Power Sources</i> , 2019, 417, 108-116.	7.8	16

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109	Biosynthesis of Silver and Gold Nanoparticles for Potential Biomedical Applications—A Brief Review. <i>Journal of Nanopharmaceutics and Drug Delivery</i> , 2014, 2, 249-265.	0.3	16
110	Characterization of the surface tension and viscosity effects on the formation of nano-liter droplet arrays by an instant protein micro stamper. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 2317-2325.	2.6	15
111	A spontaneous and passive waste-management device (PWMD) for a micro direct methanol fuel cell. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 915-922.	2.6	15
112	Two-phase flow in converging and diverging microchannels with CO ₂ bubbles produced by chemical reactions. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1-14.	4.8	15
113	Design and Fabrication of a Small-Form-Factor Optical Pickup Head. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2194-2197.	2.1	15
114	In-situ Formation and Assembly of Gold Nanoparticles by Gum Arabic as Efficient Photothermal Agent for Killing Cancer Cells. <i>Macromolecular Bioscience</i> , 2013, 13, 1314-1320.	4.1	15
115	Protein micro arrays immobilized by 1/4-stamps and -protein wells on PhastGel® pad. <i>Sensors and Actuators B: Chemical</i> , 2002, 83, 22-29.	7.8	14
116	The proximity between C-termini of dimeric vacuolar H ⁺ -pyrophosphatase determined using atomic force microscopy and a gold nanoparticle technique. <i>FEBS Journal</i> , 2009, 276, 4381-4394.	4.7	14
117	Passive cathodic water/air management device for micro-direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 7349-7358.	7.8	14
118	Measurement of Organic Chemical Refractive Indexes Using an Optical Time-Domain Reflectometer. <i>Sensors</i> , 2012, 12, 481-488.	3.8	14
119	Synthesis and optical properties of gold/silver nanocomposites prepared on multi-walled carbon nanotubes via galvanic replacement of silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	14
120	Nanocalibrated Single-Cell-Membrane Nanoelectroporation: For higher efficiency with high cell viability.. <i>IEEE Nanotechnology Magazine</i> , 2014, 8, 30-34.	1.3	14
121	A well-dispersed catalyst on porous silicon micro-reformer for enhancing adhesion in the catalyst-coating process. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7753-7764.	7.1	14
122	Novel gold dendritic nanoflowers deposited on titanium nitride for photoelectrochemical cells. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3077-3084.	2.5	14
123	Highly Correlated Recurrence Prognosis in Patients with Metastatic Colorectal Cancer by Synergistic Consideration of Circulating Tumor Cells/Microemboli and Tumor Markers CEA/CA19-9. <i>Cells</i> , 2021, 10, 1149.	4.1	14
124	Distance Variations between Active Sites of H ⁺ -Pyrophosphatase Determined by Fluorescence Resonance Energy Transfer. <i>Journal of Biological Chemistry</i> , 2010, 285, 23655-23664.	3.4	13
125	Fabrication of a SU-8-based polymer-enclosed channel with a penetrating UV/ozone-modified interior surface for electrokinetic separation of proteins. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 115031.	2.6	13
126	A high efficient micro-proton exchange membrane fuel cell by integrating micro-nano synergical structures. <i>Journal of Power Sources</i> , 2013, 225, 277-285.	7.8	13

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127	Sulfonated Polyaniline as Zwitterionic and Conductive Interfaces for Anti-Biofouling on Open Electrode Surfaces in Electrodynamic Systems. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19102-19109.	8.0	13
128	Microfluidic Based Physical Approaches towards Single-Cell Intracellular Delivery and Analysis. <i>Micromachines</i> , 2021, 12, 631.	2.9	13
129	Characterization of the mechanical properties of microscale elastomeric membranes. <i>Measurement Science and Technology</i> , 2005, 16, 653-658.	2.6	12
130	120Hz low cross-talk stereoscopic display with intelligent LED backlight enabled by multi-dimensional controlling IC. <i>Displays</i> , 2009, 30, 148-154.	3.7	12
131	A perfusion-based micro opto-fluidic system (PMOFS) for continuously in-situ immune sensing. <i>Lab on A Chip</i> , 2009, 9, 2673.	6.0	12
132	Pore-Spanning Lipid Membrane under Indentation by a Probe Tip: A Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2011, 27, 11930-11942.	3.5	12
133	Enhanced Electrochemical Catalytic Efficiencies of Electrochemically Deposited Platinum Nanocubes as a Counter Electrode for Dye-Sensitized Solar Cells. <i>Nanoscale Research Letters</i> , 2015, 10, 467.	5.7	12
134	High-Throughput White Blood Cell (Leukocyte) Enrichment from Whole Blood Using Hydrodynamic and Inertial Forces. <i>Micromachines</i> , 2020, 11, 275.	2.9	12
135	A 3D-ACEK/SERS system for highly efficient and selectable electrokinetic bacteria concentration/detection/ antibiotic-susceptibility-test on whole blood. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113740.	10.1	12
136	Synthesis of bio-functionalized copolymer particles bearing carboxyl groups via a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 459-468.	2.2	11
137	SU8 3D prisms with ultra small inclined angle for low-insertion-loss fiber/waveguide interconnection. <i>Optics Express</i> , 2011, 19, 18956.	3.4	11
138	A UV-sensitive hydrogel based combinatory drug delivery chip (UV gel-Drug Chip) for cancer cocktail drug screening. <i>RSC Advances</i> , 2016, 6, 44425-44434.	3.6	11
139	A hybrid phosphorus-acid fuel cell system incorporated with oxidative steam reforming of methanol (OSRM) reformer. <i>Renewable Energy</i> , 2020, 153, 530-538.	8.9	11
140	Biomedical Applications of Diamond-Like Nanocomposite Thin Films. <i>Science of Advanced Materials</i> , 2012, 4, 110-113.	0.7	11
141	Impact of a Desmoplastic Tumor Microenvironment for Colon Cancer Drug Sensitivity: A Study with 3D Chimeric Tumor Spheroids. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48478-48491.	8.0	11
142	Microfluidic platforms for single neuron analysis. <i>Materials Today Bio</i> , 2022, 13, 100222.	5.5	11
143	A micro Fabry-Pérot sensor for nano-lateral displacement sensing with enhanced sensitivity and pressure resistance. <i>Sensors and Actuators A: Physical</i> , 2004, 113, 12-19.	4.1	10
144	Orientation-specific fluidic self-assembly process based on a capillary effect. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 115020.	2.6	10

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145	Numerical studies on micropart self-alignment using surface tension forces. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 63-75.	2.2	10
146	Optimum electrostatic force control for fabricating a hybrid UV-curable aspheric lens. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 075001.	2.6	10
147	Nanocapillary electrophoretic electrochemical chip: towards analysis of biochemicals released by single cells. <i>Interface Focus</i> , 2011, 1, 744-753.	3.0	10
148	Highly efficient platinum nanocatalysts synthesized by an open-loop reduction system with a controlled temperature loop. <i>Electrochimica Acta</i> , 2012, 64, 162-170.	5.2	10
149	Chromatogram Analysis on Revealing Aggregated Number and Location of Gold Nanoparticles Within Living Cells. <i>Plasmonics</i> , 2015, 10, 873-880.	3.4	10
150	A facile approach to prepare silicon-based Pt-Ag tubular dendritic nano-forests (tDNFs) for solar-light-enhanced methanol oxidation reaction. <i>Nanoscale Research Letters</i> , 2015, 10, 74.	5.7	10
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152	A novel micro optical system employing inclined polymer mirrors and Fresnel lens for monolithic integration of optical disk pickup heads. , 0, , .		9
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