

Fan-Gang Tseng

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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.

245
papers

4,098
citations

31
h-index

50
g-index

327
ext. papers

4,825
ext. citations

4.7
avg, IF

5.52
L-index

#	Paper	IF	Citations
245	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		180
244	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		131
243	Substrate curvature gradient drives rapid droplet motion. <i>Physical Review Letters</i> , 2014 , 113, 026101	7.4	120
242	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	3.9	119
241	Bubble dynamics in microchannels. Part I: single microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 5575-5589	4.9	108
240	Microfluidic systems integrated with two-dimensional surface plasmon resonance phase imaging systems for microarray immunoassay. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 466-72	11.8	106
239	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	1.7	87
238	Spontaneous high-speed transport of subnanoliter water droplet on gradient nanotextured surfaces. <i>Applied Physics Letters</i> , 2009 , 95, 063108	3.4	80
237	Microfluidic systems for biosensing. <i>Sensors</i> , 2010 , 10, 6623-61	3.8	79
236	Visualizing dynamics of sub-hepatic distribution of nanoparticles using intravital multiphoton fluorescence microscopy. <i>ACS Nano</i> , 2012 , 6, 4122-31	16.7	68
235	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	2.4	65
234	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	61
233	Bubble dynamics in microchannels. Part II: two parallel microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 5591-5601	4.9	59
232	Well-defined mesoporous nanostructure modulates three-dimensional interface energy transfer for two-photon activated photodynamic therapy. <i>Nano Today</i> , 2011 , 6, 552-563	17.9	55
231	Nanoparticle-based in vivo investigation on blood-brain barrier permeability following ischemia and reperfusion. <i>Analytical Chemistry</i> , 2004 , 76, 4465-71	7.8	55
230	Engineering the 3D architecture and hydrophobicity of methyltrichlorosilane nanostructures. <i>Nanotechnology</i> , 2008 , 19, 345603	3.4	54
229	Gradient static-strain stimulation in a microfluidic chip for 3D cellular alignment. <i>Lab on A Chip</i> , 2014 , 14, 482-93	7.2	49

228	Recent Trends on Micro/Nanofluidic Single Cell Electroporation. <i>Micromachines</i> , 2013 , 4, 333-356	3.3	49
227	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	46
226	Mechanical strength and interfacial failure analysis of cantilevered SU-8 microposts. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 822-831	2	45
225	Dynamics of hydrogen nanobubbles in KLH protein solution studied with in situ wet-TEM. <i>Soft Matter</i> , 2013 , 9, 8856	3.6	43
224	AC electroosmotic generated in-plane microvortices for stationary or continuous fluid mixing. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 326-336	8.5	43
223	Rapid fabrication of three-dimensional gold dendritic nanoforests for visible light-enhanced methanol oxidation. <i>Electrochimica Acta</i> , 2016 , 192, 15-21	6.7	41
222	Current Trends of Microfluidic Single-Cell Technologies. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	40
221	Fundamental studies on micro-droplet movement by Marangoni and capillary effects. <i>Sensors and Actuators A: Physical</i> , 2004 , 114, 292-301	3.9	39
220	Ethanol/CO ₂ two-phase flow in diverging and converging microchannels. <i>International Journal of Multiphase Flow</i> , 2005 , 31, 548-570	3.6	39
219	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	39
218	Self-aligned wet-cell for hydrated microbiology observation in TEM. <i>Lab on A Chip</i> , 2012 , 12, 340-7	7.2	36
217	Evaporation evolution of volatile liquid droplets in nanoliter wells. <i>Sensors and Actuators A: Physical</i> , 2006 , 130-131, 12-19	3.9	33
216	Nanostructured pillars based on vertically aligned carbon nanotubes as the stationary phase in micro-CEC. <i>Electrophoresis</i> , 2009 , 30, 2025-31	3.6	32
215	Micropatterned stretching system for the investigation of mechanical tension on neural stem cells behavior. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 345-55	6	31
214	Polymer MEMS-based Fabry-Perot shear stress sensor. <i>IEEE Sensors Journal</i> , 2003 , 3, 812-817	4	31
213	Delivery of molecules into cells using localized single cell electroporation on ITO micro-electrode based transparent chip. <i>Biomedical Microdevices</i> , 2012 , 14, 811-7	3.7	30
212	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	9.2	29
211	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, 5408-17	3.2	29

210	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	3.9	29
209	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	28
208	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	10.7	27
207	Phase TEM for biological imaging utilizing a Boersch electrostatic phase plate: theory and practice. <i>Journal of Electron Microscopy</i> , 2009 , 58, 137-45		27
206	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	5.7	26
205	Uniform Solute Deposition of Evaporable Droplet in Nanoliter Wells. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 1209-1218	2.5	26
204	The fabrication and application of Zernike electrostatic phase plate. <i>Journal of Electron Microscopy</i> , 2006 , 55, 273-80		26
203	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 ²⁵		25
202	A gold-nanoparticle-enhanced immune sensor based on fiber optic interferometry. <i>Nanotechnology</i> , 2008 , 19, 345501	3.4	25
201	Self-Assembly in Micro- and Nanofluidic Devices: A Review of Recent Efforts. <i>Micromachines</i> , 2011 , 2, 17-48	3.3	24
200	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, 7908-16	7.8	24
199	Fluid filling into micro-fabricated reservoirs. <i>Sensors and Actuators A: Physical</i> , 2002 , 97-98, 131-138	3.9	24
198	Modification of Photon Emission Statistics from Single Colloidal CdSe Quantum Dots by Conductive Materials. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18126-18132	3.8	23
197	Cotton-based diagnostic devices. <i>Scientific Reports</i> , 2014 , 4, 6976	4.9	23
196	Tuning nano electric field to affect restrictive membrane area on localized single cell nano-electroporation. <i>Applied Physics Letters</i> , 2013 , 103, 233701	3.4	23
195	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	3.8	23
194	High-throughput flowing upstream sperm sorting in a retarding flow field for human semen analysis. <i>Analyst, The</i> , 2017 , 142, 938-944	5	22
193	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	22

192	Impact of pulse duration on localized single-cell nano-electroporation. <i>Analyst, The</i> , 2014 , 139, 6249-58	5	22
191	Stable and wavelength-tunable silicon-micro-ring-resonator based erbium-doped fiber laser. <i>Optics Express</i> , 2013 , 21, 2869-74	3.3	22
190	A simple fiber Bragg grating-based sensor network architecture with self-protecting and monitoring functions. <i>Sensors</i> , 2011 , 11, 1375-82	3.8	22
189	Surface tension driven flow for open microchannels with different turning angles. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 193-203	2.8	22
188	Dual hierarchical biomimic superhydrophobic surface with three energy states. <i>Applied Physics Letters</i> , 2009 , 95, 023702	3.4	21
187	Self-masked high-aspect-ratio polymer nanopillars. <i>Nanotechnology</i> , 2008 , 19, 505301	3.4	21
186	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, 12335-44	5.4	20
185	Structural and tribological properties of diamond-like nanocomposite thin films. <i>Surface and Coatings Technology</i> , 2011 , 206, 228-233	4.4	20
184	Molecular dynamics simulation of the enhancement of cobra cardiotoxin and E6 protein binding on mixed self-assembled monolayer molecules. <i>Nanotechnology</i> , 2006 , 17, S8-S13	3.4	20
183	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	8.5	19
182	Dielectric passivation layer as a substratum on localized single-cell electroporation. <i>RSC Advances</i> , 2016 , 6, 10979-10986	3.7	19
181	Quasi-2D liquid cell for high density hydrogen storage. <i>Nano Energy</i> , 2017 , 31, 218-224	17.1	19
180	Desalination of saline water by nanochannel arrays through manipulation of electrical double layer. <i>Nano Energy</i> , 2015 , 12, 394-400	17.1	18
179	Simultaneous immobilization of protein microarrays by a micro stamper with back-filling reservoir. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 174-185	8.5	18
178	Copper Sulfide Nanoassemblies for Catalytic and Photoresponsive Eradication of Bacteria from Infected Wounds. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7865-7878	9.5	18
177	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. <i>Analytica Chimica Acta</i> , 2015 , 889, 166-71	6.6	17
176	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	3.9	17
175	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	3.8	17

174	A microfluidic nanoliter mixer with optimized grooved structures driven by capillary pumping. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1358-1365	2	17
173	High density and through wafer copper interconnections and solder bumps for MEMS wafer-level packaging. <i>Microsystem Technologies</i> , 2004 , 10, 517-521	1.7	17
172	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	3.9	17
171	Infrared Pulse Laser-Activated Highly Efficient Intracellular Delivery Using Titanium Microdish Device. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5645-5652	5.5	17
170	A high-yield and ultra-low-temperature methanol reformer integratable with phosphoric acid fuel cell (PAFC). <i>Energy</i> , 2017 , 133, 1142-1152	7.9	16
169	Tuning the photoluminescence of metal nanoclusters for selective detection of multiple heavy metal ions. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128539	8.5	16
168	Probing quenched dye fluorescence of Cy3-DNA-Au-nanoparticle hybrid conjugates using solution and array platforms. <i>Journal of Colloid and Interface Science</i> , 2012 , 371, 34-41	9.3	16
167	Nano-localized single-cell nano-electroporation. <i>Lab on A Chip</i> , 2020 , 20, 4194-4204	7.2	16
166	Paper-based CRP Monitoring Devices. <i>Scientific Reports</i> , 2016 , 6, 38171	4.9	16
165	Nitrogen-doped carbon nanodots prepared from polyethylenimine for fluorometric determination of salivary uric acid. <i>Mikrochimica Acta</i> , 2019 , 186, 166	5.8	15
164	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		15
163	Electrostatic-Force-Modulated Microspherical Lens for Optical Pickup Head. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 370-380	2.5	15
162	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	15
161	A wettability switchable surface by microscale surface morphology change. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 489-495	2	15
160	Application of 3D gray mask for the fabrication of curved SU-8 structures. <i>Microsystem Technologies</i> , 2005 , 11, 365-369	1.7	15
159	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	11.8	14
158	A Single-Neuron: Current Trends and Future Prospects. <i>Cells</i> , 2020 , 9,	7.9	14
157	Surface enhanced Raman scattering (SERS) based biomicrofluidics systems for trace protein analysis. <i>Biomicrofluidics</i> , 2018 , 12, 011502	3.2	14

156	Design and fabrication of a copolymer aspheric bi-convex lens utilizing thermal energy and electrostatic force in a dynamic fluidic. <i>Optics Express</i> , 2010 , 18, 6014-23	3.3	14
155	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. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 125023	2	14
154	Shutter glasses stereo LCD with a dynamic backlight 2009 ,		14
153	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, 4381-94	5.7	14
152	Passive cathodic water/air management device for micro-direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 7349-7358	8.9	14
151	Off-angle illumination induced surface plasmon coupling in subwavelength metallic slits. <i>Optics Express</i> , 2005 , 13, 10784-94	3.3	14
150	. <i>Journal of Microelectromechanical Systems</i> , 2006 , 15, 659-670	2.5	14
149	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	8.9	14
148	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	6.7	13
147	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	8.9	13
146	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	13
145	Measurement of organic chemical refractive indexes using an optical time-domain reflectometer. <i>Sensors</i> , 2012 , 12, 481-8	3.8	13
144	Design and Fabrication of a Small-Form-Factor Optical Pickup Head. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2194-2197	2	13
143	Micro-patternable nanoporous polymer integrated with microstructures for molecular filtration. <i>Nanotechnology</i> , 2008 , 19, 365301	3.4	13
142	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	13
141	Precise [100] crystal orientation determination on $\{110\}$ -oriented silicon wafers. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 47-52	2	13
140	High-performance and low-leakage phosphoric acid fuel cell with synergic composite membrane stacking of micro glass microfiber and nano PTFE. <i>Renewable Energy</i> , 2019 , 134, 982-988	8.1	13
139	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, 1314-20	5.5	12

138	Distance variations between active sites of H(+)-pyrophosphatase determined by fluorescence resonance energy transfer. <i>Journal of Biological Chemistry</i> , 2010 , 285, 23655-64	5.4	12
137	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	4.9	12
136	Characterization of the mechanical properties of microscale elastomeric membranes. <i>Measurement Science and Technology</i> , 2005 , 16, 653-658	2	12
135	A micro Fabry-Pérot sensor for nano-lateral displacement sensing with enhanced sensitivity and pressure resistance. <i>Sensors and Actuators A: Physical</i> , 2004 , 114, 163-170	3.9	12
134	Nanocalibrated Single-Cell-Membrane Nanoelectroporation: For higher efficiency with high cell viability. <i>IEEE Nanotechnology Magazine</i> , 2014 , 8, 30-34	1.7	11
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	11
132	Electrocatalytic properties improvement on carbon-nanotubes coated reaction surface for micro-DMFC. <i>Journal of Power Sources</i> , 2007 , 167, 413-419	8.9	11
131	Synthesis of bio-functionalized copolymer particles bearing carboxyl groups via a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 459-468	2.8	11
130	Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19840-19854	9.5	10
129	Novel gold dendritic nanoflowers deposited on titanium nitride for photoelectrochemical cells. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 3077-3084	2.6	10
128	A perfusion-based micro opto-fluidic system (PMOFS) for continuously in-situ immune sensing. <i>Lab on A Chip</i> , 2009 , 9, 2673-82	7.2	10
127	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		10
126	Biomedical Applications of Diamond-Like Nanocomposite Thin Films. <i>Science of Advanced Materials</i> , 2012 , 4, 110-113	2.3	10
125	Capping 1,3-propanedithiol to boost the antibacterial activity of protein-templated copper nanoclusters. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121821	12.8	10
124	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	3.7	10
123	Chromatogram Analysis on Revealing Aggregated Number and Location of Gold Nanoparticles Within Living Cells. <i>Plasmonics</i> , 2015 , 10, 873-880	2.4	9
122	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	9
121	Active Components of <i>Leptospira</i> Outer Membrane Protein LipL32 to Toll-Like Receptor 2. <i>Scientific Reports</i> , 2017 , 7, 8363	4.9	9

120	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	2.3	9
119	Pore-spanning lipid membrane under indentation by a probe tip: a molecular dynamics simulation study. <i>Langmuir</i> , 2011 , 27, 11930-42	4	9
118	Optimum electrostatic force control for fabricating a hybrid UV-curable aspheric lens. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 075001	2	9
117	Orientation-specific fluidic self-assembly process based on a capillary effect. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 115020	2	9
116	120Hz low cross-talk stereoscopic display with intelligent LED backlight enabled by multi-dimensional controlling IC. <i>Displays</i> , 2009 , 30, 148-154	3.4	9
115	Protein micro arrays immobilized by μ stamps and -protein wells on PhastGel \square pad. <i>Sensors and Actuators B: Chemical</i> , 2002 , 83, 22-29	8.5	9
114	High performance dye-sensitized solar cells based on platinum nanoroses counter electrode. <i>Surface and Coatings Technology</i> , 2017 , 320, 409-413	4.4	8
113	Nanocapillary electrophoretic electrochemical chip: towards analysis of biochemicals released by single cells. <i>Interface Focus</i> , 2011 , 1, 744-53	3.9	8
112	A novel microinjector with virtual chamber neck		8
111	Microfluidic nanomaterials: From synthesis to biomedical applications. <i>Biomaterials</i> , 2021 , 280, 121247	15.6	8
110	Electrochemical pulse deposition of Ni nanoparticles on the 3D graphene network to synthesize vertical CNFs as the full-carbon hybrid nanoarchitecture for supercapacitors. <i>Materials Letters</i> , 2017 , 192, 40-43	3.3	7
109	High-Throughput White Blood Cell (Leukocyte) Enrichment from Whole Blood Using Hydrodynamic and Inertial Forces. <i>Micromachines</i> , 2020 , 11,	3.3	7
108	Sulfonated Polyaniline as Zwitterionic and Conductive Interfaces for Anti-Biofouling on Open Electrode Surfaces in Electrodynamics Systems. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19102-19109	8.5	7
107	SU-8 Lenses: Simple Methods of Fabrication and Application in Optical Interconnection Between Fiber/LED and Microstructures. <i>Journal of Electronic Materials</i> , 2016 , 45, 2529-2535	1.9	7
106	Charge-selective gate of arrayed MWCNTs for ultra high-efficient biomolecule enrichment by nano-electrostatic sieving (NES). <i>Biosensors and Bioelectronics</i> , 2013 , 43, 453-60	11.8	7
105	Squeezing at entrance of proton transport pathway in proton-translocating pyrophosphatase upon substrate binding. <i>Journal of Biological Chemistry</i> , 2013 , 288, 19312-20	5.4	7
104	SU8 3D prisms with ultra small inclined angle for low-insertion-loss fiber/waveguide interconnection. <i>Optics Express</i> , 2011 , 19, 18956-64	3.3	7
103	Numerical studies on micropart self-alignment using surface tension forces. <i>Microfluidics and Nanofluidics</i> , 2009 , 6, 63-75	2.8	7

102	Highly efficient CO ₂ bubble removal on carbon nanotube supported nanocatalysts for direct methanol fuel cell. <i>Journal of Power Sources</i> , 2010 , 195, 1640-1646	8.9	7
101	A micro FabryPerot sensor for nano-lateral displacement sensing with enhanced sensitivity and pressure resistance. <i>Sensors and Actuators A: Physical</i> , 2004 , 113, 12-19	3.9	7
100	Development of Surface-Enhanced Raman Scattering (SERS)-Based Surface-Corrugated Nanopillars for Biomolecular Detection of Colorectal Cancer. <i>Biosensors</i> , 2020 , 10,	5.9	6
99	Fluorescence-Based Nano-Oxygen Particles for Spatiometric Monitoring of Cell Physiological Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30163-30171	9.5	6
98	Highly efficient platinum nanocatalysts synthesized by an open-loop reduction system with a controlled temperature loop. <i>Electrochimica Acta</i> , 2012 , 64, 162-170	6.7	6
97	Cascaded nano-porous silicon for high sensitive biosensing and functional group distinguishing by Mid-IR spectra. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 80-5	11.8	6
96	Simple and Fast Method To Fabricate Single-Nanoparticle-Terminated Atomic Force Microscope Tips. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13239-13246	3.8	6
95	Rapid Microarray System For Passive Batch-Filling and In-Parallel-Printing Protein Solutions. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 309-317	2.5	6
94	Numerical simulation of the stamping process through microchannels. <i>Journal of Colloid and Interface Science</i> , 2003 , 258, 179-185	9.3	6
93	Evolution of gold nanoparticle clusters in living cells studied by sectional dark-field optical microscopy and chromatic analysis. <i>Journal of Biophotonics</i> , 2016 , 9, 738-749	3.1	6
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