

Fan-Gang Tseng

List of Publications by Year in Descending Order

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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 | Microfluidic mechanoporation for cellular delivery and analysis.. <i>Materials Today Bio</i> , 2022 , 13, 100193 | 9.9 | 3 |
| 244 | 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 | 11.8 | 2 |
| 243 | Dynamic processes of hybrid nanostructured Au particles/nanobubbles in a quasi-2D system by in-situ liquid cell TEM. <i>Materials Chemistry and Physics</i> , 2022 , 278, 125562 | 4.4 | 1 |
| 242 | Light-Induced Cellular Delivery and Analysis 2022 , 3-30 | | |
| 241 | Microfluidic platforms for single neuron analysis.. <i>Materials Today Bio</i> , 2022 , 13, 100222 | 9.9 | 0 |
| 240 | Microfluidic nanomaterials: From synthesis to biomedical applications. <i>Biomaterials</i> , 2021 , 280, 121247 | 15.6 | 8 |
| 239 | Catalytic and photoresponsive BiZ/CuS heterojunctions with surface vacancies for the treatment of multidrug-resistant clinical biofilm-associated infections. <i>Nanoscale</i> , 2021 , 13, 18632-18646 | 7.7 | 3 |
| 238 | 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 | 9.5 | 2 |
| 237 | 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 |
| 236 | Boron-enriched polyvinyl-alcohol/boric-acid nanoparticles for boron neutron capture therapy. <i>Nanomedicine</i> , 2021 , 16, 441-452 | 5.6 | 1 |
| 235 | 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, | 7.9 | 3 |
| 234 | Quantitative and Qualitative Image Analysis of In Vitro Co-Culture 3D Tumor Spheroid Model by Employing Image-Processing Techniques. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4636 | 2.6 | 0 |
| 233 | Microfluidic Based Physical Approaches towards Single-Cell Intracellular Delivery and Analysis. <i>Micromachines</i> , 2021 , 12, | 3.3 | 2 |
| 232 | Nanomaterials: Surface Functionalization, Modification, and Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , 2021 , 405-438 | 0.6 | 0 |
| 231 | Light-Induced Cellular Delivery and Analysis 2021 , 1-29 | | 1 |
| 230 | Pulsed laser assisted high-throughput intracellular delivery in hanging drop based three dimensional cancer spheroids. <i>Analyt, The</i> , 2021 , 146, 4756-4766 | 5 | 4 |
| 229 | 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 |

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|-----|--|------|----|
| 228 | Electrosprayed chitosan/alginate/polyvinyl alcohol nanoparticles as boric acid carriers for Boron neutron capture therapy. <i>Nanomedicine</i> , 2020 , 15, 1067-1077 | 5.6 | 3 |
| 227 | Feedback-System-Control Integrated Microfluidic System for Fast Screening of Protein Crystallization Conditions. <i>Crystal Growth and Design</i> , 2020 , 20, 4325-4334 | 3.5 | |
| 226 | 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 | 7.7 | 25 |
| 225 | Gamma Ray Irradiation Enhances the Linkage of Cotton Fabrics Coated with ZnO Nanoparticles. <i>ACS Omega</i> , 2020 , 5, 15129-15135 | 3.9 | 5 |
| 224 | High-Throughput White Blood Cell (Leukocyte) Enrichment from Whole Blood Using Hydrodynamic and Inertial Forces. <i>Micromachines</i> , 2020 , 11, | 3.3 | 7 |
| 223 | Sulfonated Polyaniline as Zwitterionic and Conductive Interfaces for Anti-Biofouling on Open Electrode Surfaces in Electrodynamical Systems. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19102-19109 | 9.5 | 7 |
| 222 | A Single-Neuron: Current Trends and Future Prospects. <i>Cells</i> , 2020 , 9, | 7.9 | 14 |
| 221 | 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 |
| 220 | A hybrid phosphorus-acid fuel cell system incorporated with oxidative steam reforming of methanol (OSRM) reformer. <i>Renewable Energy</i> , 2020 , 153, 530-538 | 8.1 | 4 |
| 219 | 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 |
| 218 | Live circulating tumour cells selection on digitized self-assembled cell array (Digi-saca) chip by in-parallel/in-situ image analysis, cell capture, and cultivation. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128002 | 8.5 | 2 |
| 217 | 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 |
| 216 | Nano-localized single-cell nano-electroporation. <i>Lab on A Chip</i> , 2020 , 20, 4194-4204 | 7.2 | 16 |
| 215 | 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 |
| 214 | Convective boiling heat transfer of methanol-Hydrogen peroxide solutions in a microchannel evaporator. <i>Applied Thermal Engineering</i> , 2019 , 161, 113729 | 5.8 | 1 |
| 213 | 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 |
| 212 | Direct measurement of electrostatic fields within the Zernike electrostatic phase plate using single 155 nm Teflon nanoparticle attached to the pillar-shaped atomic force microscope tip. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 032001 | 1.3 | |
| 211 | Nitrogen-doped carbon nanodots prepared from polyethylenimine for fluorometric determination of salivary uric acid. <i>Mikrochimica Acta</i> , 2019 , 186, 166 | 5.8 | 15 |

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|-----|---|-----|----|
| 210 | DFT Insights into Comparative Hydrogen Adsorption and Hydrogen Spillover Mechanisms of Pt4/Graphene and Pt4/Anatase (101) Surfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25618-25627 | 3.8 | 17 |
| 209 | Cell Migration in Microfluidic Devices: Invadosomes Formation in Confined Environments. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1146, 79-103 | 3.6 | 2 |
| 208 | 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 |
| 207 | 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 |
| 206 | Enumerating Circulating Tumor Cells with a Self-Assembled Cell Array (SACA) Chip: A Feasibility Study in Patients with Colorectal Cancer. <i>Cancers</i> , 2019 , 11, | 6.6 | 3 |
| 205 | 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 |
| 204 | Surface enhanced Raman scattering (SERS) based biomicrofluidics systems for trace protein analysis. <i>Biomicrofluidics</i> , 2018 , 12, 011502 | 3.2 | 14 |
| 203 | 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 |
| 202 | A Microfluidic Platform for Investigating Transmembrane Pressure-Induced Glomerular Leakage. <i>Micromachines</i> , 2018 , 9, | 3.3 | 2 |
| 201 | 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 |
| 200 | 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 |
| 199 | Current Trends of Microfluidic Single-Cell Technologies. <i>International Journal of Molecular Sciences</i> , 2018 , 19, | 6.3 | 40 |
| 198 | Fabrication and Characterization of a High-Performance Multi-Annular Backscattered Electron Detector for Desktop SEM. <i>Sensors</i> , 2018 , 18, | 3.8 | 2 |
| 197 | The Extracellular Zn Concentration Surrounding Excited Neurons Is High Enough to Bind Amyloid- β Revealed by a Nanowire Transistor. <i>Small</i> , 2018 , 14, e1704439 | 11 | 6 |
| 196 | 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 |
| 195 | High-throughput flowing upstream sperm sorting in a retarding flow field for human semen analysis. <i>Analyst</i> , 2017 , 142, 938-944 | 5 | 22 |
| 194 | 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 |
| 193 | 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 |

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|-----|---|------|----|
| 192 | 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 |
| 191 | Rapid Staining of Circulating Tumor Cells in Three-Dimensional Microwell Dialysis (3D-Dialysis) Chip. <i>Scientific Reports</i> , 2017 , 7, 11385 | 4.9 | 3 |
| 190 | Active Components of Leptospira Outer Membrane Protein LipL32 to Toll-Like Receptor 2. <i>Scientific Reports</i> , 2017 , 7, 8363 | 4.9 | 9 |
| 189 | Gradient Strain Chip for Stimulating Cellular Behaviors in Cell-laden Hydrogel. <i>Journal of Visualized Experiments</i> , 2017 , | 1.6 | 3 |
| 188 | Microfluidic devices for aiding in-vitro fertilization technique 2017 , | | 1 |
| 187 | Quasi-2D liquid cell for high density hydrogen storage. <i>Nano Energy</i> , 2017 , 31, 218-224 | 17.1 | 19 |
| 186 | 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 |
| 185 | Real-time monitoring of a micro reformer integrated with a microchannel heat exchanger by infrared thermography and high-speed flow images. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18610-18620 | 6.7 | 5 |
| 184 | Improvements in Fabrication of 3D SU-8 Prisms for Low-Coupling-Loss Interconnections Between Fibers and Waveguides. <i>Journal of Electronic Materials</i> , 2016 , 45, 5630-5637 | 1.9 | |
| 183 | Electroporation for Single-Cell Analysis. <i>Series in Bioengineering</i> , 2016 , 55-83 | 0.7 | 3 |
| 182 | Dielectric passivation layer as a substratum on localized single-cell electroporation. <i>RSC Advances</i> , 2016 , 6, 10979-10986 | 3.7 | 19 |
| 181 | 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 |
| 180 | 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 |
| 179 | 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 |
| 178 | Paper-based CRP Monitoring Devices. <i>Scientific Reports</i> , 2016 , 6, 38171 | 4.9 | 16 |
| 177 | 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 |
| 176 | In situ monitoring of colloid packing at an air/water interface using visible laser diffraction. <i>RSC Advances</i> , 2016 , 6, 80463-80467 | 3.7 | 3 |
| 175 | Chromatogram Analysis on Revealing Aggregated Number and Location of Gold Nanoparticles Within Living Cells. <i>Plasmonics</i> , 2015 , 10, 873-880 | 2.4 | 9 |

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| 174 | 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 |
| 173 | Electrical charge-induced selective ion permeation in HfO ₂ /porous nickel silicide hierarchical structures. <i>RSC Advances</i> , 2015 , 5, 47294-47299 | 3.7 | 1 |
| 172 | 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 |
| 171 | Single Molecule Take-and-Place Technique for Positioning a Membrane Protein on a Lipid Bilayer. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21184-21190 | 3.8 | |
| 170 | Dose dependent distribution and aggregation of gold nanoparticles within human lung adeno-carcinoma cells. <i>RSC Advances</i> , 2015 , 5, 98309-98317 | 3.7 | 2 |
| 169 | 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 |
| 168 | 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 |
| 167 | B11-O-12Development of Hollow Cone Dark Field environmental Electron Microscopy and their Biological Application. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i16.1-i16 | 1.3 | |
| 166 | Performance enhancement on a micro-column structure reformer via thick-film photoresist pre-protection. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 115021 | 2 | 3 |
| 165 | Highly sensitive sers Diagnosis for Bacteria by three dimensional Nano-Mushrooms and Nano-Stars-Array sandwiched on Bacterial Aggregation 2015 , | | 1 |
| 164 | Porous silicon based infrared photonic-sensor for high sensitive heavy metal ion detection 2015 , | | 1 |
| 163 | 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 |
| 162 | Desalination of saline water by nanochannel arrays through manipulation of electrical double layer. <i>Nano Energy</i> , 2015 , 12, 394-400 | 17.1 | 18 |
| 161 | Substrate-induced changes in domain interaction of vacuolar H ⁺ -pyrophosphatase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 1197-209 | 5.4 | 4 |
| 160 | High-efficiency rare cell identification on a high-density self-assembled cell arrangement chip. <i>Biomicrofluidics</i> , 2014 , 8, 036501 | 3.2 | 4 |
| 159 | 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 |
| 158 | Nanolocalized Single-Cell-Membrane Nanoelectroporation: For higher efficiency with high cell viability.. <i>IEEE Nanotechnology Magazine</i> , 2014 , 8, 30-34 | 1.7 | 11 |
| 157 | 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 |

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|-----|--|------|-----|
| 156 | Substrate curvature gradient drives rapid droplet motion. <i>Physical Review Letters</i> , 2014 , 113, 026101 | 7.4 | 120 |
| 155 | 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 |
| 154 | Glass microporous fiber/nanoporous polytetrafluoroethene composite membranes for high efficient phosphoric acid fuel cell. <i>Journal of Physics: Conference Series</i> , 2014 , 557, 012107 | 0.3 | |
| 153 | Cotton-based diagnostic devices. <i>Scientific Reports</i> , 2014 , 4, 6976 | 4.9 | 23 |
| 152 | . <i>IEEE Nanotechnology Magazine</i> , 2014 , 8, 20-28 | 1.7 | 3 |
| 151 | Impact of pulse duration on localized single-cell nano-electroporation. <i>Analyst, The</i> , 2014 , 139, 6249-58 | 5 | 22 |
| 150 | Improvement on electrochemical performance by partial replacement of Ru@Pt core-shell nanocatalyst by temperature modification. <i>Journal of Physics: Conference Series</i> , 2014 , 557, 012106 | 0.3 | |
| 149 | Nanoelectroporation and controllable intracellular delivery into localized single cell with high transfection and cell viability 2014 , | | 1 |
| 148 | Formation of suspended bilayer lipid membrane between electrowetting-driven encapsulated droplets. <i>Biomicrofluidics</i> , 2014 , 8, 052006 | 3.2 | 4 |
| 147 | Pt@TiO ₂ - Au nanoCORRUGATED STRUCTURE for visible-light active photocatalysis. <i>Journal of Physics: Conference Series</i> , 2014 , 557, 012103 | 0.3 | |
| 146 | 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 |
| 145 | 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 |
| 144 | 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 |
| 143 | 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 |
| 142 | Direct measurement of electrostatic fields using single Teflon nanoparticle attached to AFM tip. <i>Nanoscale Research Letters</i> , 2013 , 8, 519 | 5 | 3 |
| 141 | Characterization of single 1.8-nm Au nanoparticle attachments on AFM tips for single sub-4-nm object pickup. <i>Nanoscale Research Letters</i> , 2013 , 8, 482 | 5 | 5 |
| 140 | High-throughput sperm sorting in a micro diffuser type fluidic system 2013 , | | 2 |
| 139 | Dynamics of hydrogen nanobubbles in KLH protein solution studied with in situ wet-TEM. <i>Soft Matter</i> , 2013 , 9, 8856 | 3.6 | 43 |

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| 138 | Nanofocused electric field for localized single cell nanoelectroporation with membrane reversibility 2013 , | | 1 |
| 137 | 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 |
| 136 | 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 |
| 135 | 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 |
| 134 | Stable and wavelength-tunable silicon-micro-ring-resonator based erbium-doped fiber laser. <i>Optics Express</i> , 2013 , 21, 2869-74 | 3.3 | 22 |
| 133 | Essential calcium-binding cluster of Leptospira 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 |
| 132 | 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 |
| 131 | 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 |
| 130 | Label-free blood cells separation and enrichment from whole blood by high-throughput hydrodynamic and inertial force 2013 , | | 2 |
| 129 | High Performance Nanocatalysts Supported on Micro/Nano Carbon Structures Using Ethanol Immersion Pretreatment for Micro DMFCs. <i>Journal of Physics: Conference Series</i> , 2013 , 476, 012064 | 0.3 | 0 |
| 128 | Recent Trends on Micro/Nanofluidic Single Cell Electroporation. <i>Micromachines</i> , 2013 , 4, 333-356 | 3.3 | 49 |
| 127 | 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 |
| 126 | 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 |
| 125 | Self-aligned wet-cell for hydrated microbiology observation in TEM. <i>Lab on A Chip</i> , 2012 , 12, 340-7 | 7.2 | 36 |
| 124 | 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 |
| 123 | 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 |
| 122 | Integrated SU-8 Prisms and Microgratings for Polarization-Selective Fiber-to-Silicon Waveguide Coupling. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1054-1056 | 2.2 | 1 |
| 121 | 2012 , | | 2 |

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|-----|---|------|----|
| 120 | Energy cascading by triple-bubble interactions via time-delayed control. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 015014 | 2 | |
| 119 | Visualizing dynamics of sub-hepatic distribution of nanoparticles using intravital multiphoton fluorescence microscopy. <i>ACS Nano</i> , 2012 , 6, 4122-31 | 16.7 | 68 |
| 118 | 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 |
| 117 | Measurement of organic chemical refractive indexes using an optical time-domain reflectometer. <i>Sensors</i> , 2012 , 12, 481-8 | 3.8 | 13 |
| 116 | Increased Interfacial Strength at Microscale Silicon/Polymer Interface by Nanowires Assisted Micro-Sandglass Shaped Interlocks. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 027302 | 1.4 | 1 |
| 115 | Thickness Control over Ionomer Coatings on Nano Patterned Three-Phase Zones for a Highly Efficient Electrode. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F242-F248 | 3.9 | 3 |
| 114 | Chemical auxiliary-free polymerization yielding non-linear PEG for protein-resistant application. <i>RSC Advances</i> , 2012 , 2, 7174 | 3.7 | 1 |
| 113 | Biomedical Applications of Diamond-Like Nanocomposite Thin Films. <i>Science of Advanced Materials</i> , 2012 , 4, 110-113 | 2.3 | 10 |
| 112 | Increased Interfacial Strength at Microscale Silicon/Polymer Interface by Nanowires Assisted Micro-Sandglass Shaped Interlocks. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 027302 | 1.4 | 3 |
| 111 | Self-Assembly in Micro- and Nanofluidic Devices: A Review of Recent Efforts. <i>Micromachines</i> , 2011 , 2, 17-48 | 3.3 | 24 |
| 110 | Pore-spanning lipid membrane under indentation by a probe tip: a molecular dynamics simulation study. <i>Langmuir</i> , 2011 , 27, 11930-42 | 4 | 9 |
| 109 | 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 |
| 108 | Structural and tribological properties of diamond-like nanocomposite thin films. <i>Surface and Coatings Technology</i> , 2011 , 206, 228-233 | 4.4 | 20 |
| 107 | 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 |
| 106 | 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 |
| 105 | Multi-dimensional data registration CMOS/MEMS integrated inkjet printhead. <i>Microelectronic Engineering</i> , 2011 , 88, 888-901 | 2.5 | 3 |
| 104 | Nanocapillary electrophoretic electrochemical chip: towards analysis of biochemicals released by single cells. <i>Interface Focus</i> , 2011 , 1, 744-53 | 3.9 | 8 |
| 103 | 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 |

102 Surface Treatment and Planarization. *MEMS Reference Shelf*, **2011**, 925-1044

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| 101 | Design and Fabrication of Monolithic Multidimensional Data Registration CMOS/MEMS Ink-Jet Printhead. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 961-972 | 2.5 | 2 |
| 100 | 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 |
| 99 | 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 |
| 98 | 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 |
| 97 | 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 |
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| 7 | A novel fabrication technology for smooth 3D inclined polymer microstructures with adjustable angles | | 5 |
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| 5 | A novel micro optical system employing inclined polymer mirrors and Fresnel lens for monolithic integration of optical disk pickup heads | | 5 |
| 4 | A power-free liquid driven method for micro mixing application | | 1 |
| 3 | Surface biopotential monitoring by needle type micro electrode array | | 1 |
| 2 | A high sensitive Fabry-Perot shear stress sensor employing flexible membrane and double SU-8 structures | | 1 |
| 1 | A novel microinjector with virtual chamber neck | | 8 |