

Fan-Gang Tseng

List of Publications by Year in descending order

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324
papers

5,466
citations

101543

36
h-index

144013

57
g-index

327
all docs

327
docs citations

327
times ranked

6661
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Induced Cellular Delivery and Analysis. , 2022, , 3-30.		1
2	A 3D-ACEK/SERS system for highly efficient and selectable electrokinetic bacteria concentration/detection/ antibiotic-susceptibility-test on whole blood. Biosensors and Bioelectronics, 2022, 197, 113740.	10.1	12
3	Microfluidic nanomaterials: From synthesis to biomedical applications. Biomaterials, 2022, 280, 121247.	11.4	35
4	Dynamic processes of hybrid nanostructured Au particles/nanobubbles in a quasi-2D system by in-situ liquid cell TEM. Materials Chemistry and Physics, 2022, 278, 125562.	4.0	1
5	Microfluidic mechanoporation for cellular delivery and analysis. Materials Today Bio, 2022, 13, 100193.	5.5	18
6	Microfluidic platforms for single neuron analysis. Materials Today Bio, 2022, 13, 100222.	5.5	11
7	Potential Values of Circulating microRNA-21 to Predict Early Recurrence in Patients with Colorectal Cancer after Treatments. Journal of Clinical Medicine, 2022, 11, 2400.	2.4	9
8	Gold-Polystyrene Core-Shell Hybrid Nanoparticles Mediated Highly Efficient Intracellular Delivery Using Light Pulses. , 2021, , .		0
9	Nanomaterials: Surface Functionalization, Modification, and Applications. Springer Series in Biomaterials Science and Engineering, 2021, , 405-438.	1.0	1
10	Light-Induced Cellular Delivery and Analysis. , 2021, , 1-29.		2
11	Pulsed laser assisted high-throughput intracellular delivery in hanging drop based three dimensional cancer spheroids. Analyst, The, 2021, 146, 4756-4766.	3.5	22
12	Boron-enriched polyvinyl-alcohol/boric-acid nanoparticles for boron neutron capture therapy. Nanomedicine, 2021, 16, 441-452.	3.3	7
13	Highly Correlated Recurrence Prognosis in Patients with Metastatic Colorectal Cancer by Synergistic Consideration of Circulating Tumor Cells/Microemboli and Tumor Markers CEA/CA19-9. Cells, 2021, 10, 1149.	4.1	14
14	Quantitative and Qualitative Image Analysis of In Vitro Co-Culture 3D Tumor Spheroid Model by Employing Image-Processing Techniques. Applied Sciences (Switzerland), 2021, 11, 4636.	2.5	4
15	Microfluidic Based Physical Approaches towards Single-Cell Intracellular Delivery and Analysis. Micromachines, 2021, 12, 631.	2.9	13
16	Editorial for the Special Issue on Micro/Nanofluidic Devices for Single Cell Analysis, Volume II. Micromachines, 2021, 12, 875.	2.9	2
17	Nanomedicine in boron neutron capture therapy for cancer treatment: opportunities, challenges and future perspectives. Nanomedicine, 2021, 16, 1631-1634.	3.3	1
18	Generation of Silver Metal Nanocluster Random Lasing. ACS Photonics, 2021, 8, 3051-3060.	6.6	9

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19	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
20	Catalytic and photoresponsive BiZ/Cu _S heterojunctions with surface vacancies for the treatment of multidrug-resistant clinical biofilm-associated infections. <i>Nanoscale</i> , 2021, 13, 18632-18646.	5.6	9
21	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
22	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
23	Physical Cues in the Microenvironment Regulate Stemness-Dependent Homing of Breast Cancer Cells. <i>Cancers</i> , 2020, 12, 2176.	3.7	4
24	Single-Cell Analysis. <i>Cells</i> , 2020, 9, 1993.	4.1	10
25	Nano-localized single-cell nano-electroporation. <i>Lab on A Chip</i> , 2020, 20, 4194-4204.	6.0	30
26	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
27	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
28	Electrosprayed chitosan/alginate/polyvinyl alcohol nanoparticles as boric acid carriers for ¹⁰ Boron neutron capture therapy. <i>Nanomedicine</i> , 2020, 15, 1067-1077.	3.3	9
29	Feedback-System-Control Integrated Microfluidic System for Fast Screening of Protein Crystallization Conditions. <i>Crystal Growth and Design</i> , 2020, 20, 4325-4334.	3.0	1
30	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
31	Gamma Ray Irradiation Enhances the Linkage of Cotton Fabrics Coated with ZnO Nanoparticles. <i>ACS Omega</i> , 2020, 5, 15129-15135.	3.5	9
32	High-Throughput White Blood Cell (Leukocyte) Enrichment from Whole Blood Using Hydrodynamic and Inertial Forces. <i>Micromachines</i> , 2020, 11, 275.	2.9	12
33	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.	8.0	13
34	A Single-Neuron: Current Trends and Future Prospects. <i>Cells</i> , 2020, 9, 1528.	4.1	28
35	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
36	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

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37	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.	8.0	21
38	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.	7.8	7
39	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
40	Convective boiling heat transfer of methanol & Hydrogen peroxide solutions in a microchannel evaporator. <i>Applied Thermal Engineering</i> , 2019, 161, 113729.	6.0	4
41	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
42	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.	1.2	0
43	Nitrogen-doped carbon nanodots prepared from polyethylenimine for fluorometric determination of salivary uric acid. <i>Mikrochimica Acta</i> , 2019, 186, 166.	5.0	27
44	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
45	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.	8.9	22
46	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, 56.	3.7	8
47	Cell Migration in Microfluidic Devices: Invadosomes Formation in Confined Environments. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1146, 79-103.	1.6	3
48	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
49	Surface enhanced Raman scattering (SERS) based biomicrofluidics systems for trace protein analysis. <i>Biomicrofluidics</i> , 2018, 12, 011502.	2.4	16
50	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
51	Current Trends of Microfluidic Single-Cell Technologies. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3143.	4.1	63
52	Fabrication and Characterization of a High-Performance Multi-Annular Backscattered Electron Detector for Desktop SEM. <i>Sensors</i> , 2018, 18, 3093.	3.8	3
53	The Extracellular Zn ²⁺ Concentration Surrounding Excited Neurons Is High Enough to Bind Amyloid β Revealed by a Nanowire Transistor. <i>Small</i> , 2018, 14, e1704439.	10.0	7
54	In-situ tem study of highly stable oxygen nanobubbles in quasi-2D liquid system. , 2018, , .		0

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55	A Microfluidic Platform for Investigating Transmembrane Pressure-Induced Glomerular Leakage. <i>Micromachines</i> , 2018, 9, 228.	2.9	9
56	Fabrication and characterization of a sensitivity multi-annular backscattered electron detector for desktop SEM. , 2018, , .		0
57	Fluorescence-Based Nano-Oxygen Particles for Spatiometric Monitoring of Cell Physiological Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30163-30171.	8.0	8
58	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
59	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.	2.6	8
60	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
61	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
62	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
63	High performance dye-sensitized solar cells based on platinum nanoroses counter electrode. <i>Surface and Coatings Technology</i> , 2017, 320, 409-413.	4.8	9
64	Rapid Staining of Circulating Tumor Cells in Three-Dimensional Microwell Dialysis (3D-1/4Dialysis) Chip. <i>Scientific Reports</i> , 2017, 7, 11385.	3.3	4
65	CTCs detection by SACA chip and image analysis. , 2017, , .		1
66	Active Components of Leptospira Outer Membrane Protein LipL32 to Toll-Like Receptor 2. <i>Scientific Reports</i> , 2017, 7, 8363.	3.3	22
67	Gradient Strain Chip for Stimulating Cellular Behaviors in Cell-laden Hydrogel. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
68	Microfluidic devices for aiding in-vitro fertilization technique. , 2017, , .		1
69	Quasi-2D liquid cell for high density hydrogen storage. <i>Nano Energy</i> , 2017, 31, 218-224.	16.0	24
70	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
71	Fabrication of PMMA-based mini-direct methanol fuel cell for portable devices. , 2017, , .		0
72	Microfluidic devices for enhancing in-vitro fertilization. , 2017, , .		0

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73	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.	2.3	8
74	Paper-based CRP Monitoring Devices. <i>Scientific Reports</i> , 2016, 6, 38171.	3.3	19
75	A three-dimensional microfluidic device for oocyte zona-removal and incubation. , 2016, , .		0
76	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
77	In-situ generation of highly stable, sub 10-nm oxygen nanobubbles in liquid environmental tem. , 2016, , .		0
78	In situ monitoring of colloid packing at an air/water interface using visible laser diffraction. <i>RSC Advances</i> , 2016, 6, 80463-80467.	3.6	3
79	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.	7.1	6
80	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.	2.2	0
81	Fabricating Cotton Analytical Devices. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
82	Hydraulic extraction of high quality sperms from a dual gradient sperm sorter for in-vitro fertilizatio. , 2016, , .		0
83	Electroporation for Single-Cell Analysis. <i>Series in Bioengineering</i> , 2016, , 55-83.	0.6	8
84	Dielectric passivation layer as a substratum on localized single-cell electroporation. <i>RSC Advances</i> , 2016, 6, 10979-10986.	3.6	24
85	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
86	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.	2.2	9
87	Plasmonic Catalytic Layer for Visible-Light Enhanced Methanol Oxidation Reaction. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	1
88	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
89	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.	1.5	0
90	Performance enhancement on a micro-column structure reformer via thick-film photoresist pre-protection. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 115021.	2.6	3

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91	Highly sensitive sers Diagnosis for Bacteria by three dimensional Nano-Mushrooms and Nano-Stars-Array sandwiched on Bacterial Aggregation. , 2015, , .		1
92	Porous silicon based infrared photonic-sensor for high sensitive heavy metal ion detection. , 2015, , .		2
93	Low-Temperature Thermally Reduced Molybdenum Disulfide as a Pt-Free Counter Electrode for Dye-Sensitized Solar Cells. Nanoscale Research Letters, 2015, 10, 446.	5.7	34
94	Desalination of saline water by nanochannel arrays through manipulation of electrical double layer. Nano Energy, 2015, 12, 394-400.	16.0	25
95	Substrate-induced Changes in Domain Interaction of Vacuolar H ⁺ -Pyrophosphatase. Journal of Biological Chemistry, 2015, 290, 1197-1209.	3.4	7
96	Chromatogram Analysis on Revealing Aggregated Number and Location of Gold Nanoparticles Within Living Cells. Plasmonics, 2015, 10, 873-880.	3.4	10
97	A facile approach to prepare silicon-based Pt-Ag tubular dendritic nano-forests (tDNFs) for solar-light-enhanced methanol oxidation reaction. Nanoscale Research Letters, 2015, 10, 74.	5.7	10
98	Electrical charge-induced selective ion permeation in HfO ₂ /porous nickel silicide hierarchical structures. RSC Advances, 2015, 5, 47294-47299.	3.6	1
99	Cocktail drug delivery chip for cancer drug screening. , 2015, , .		0
100	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
101	Single Molecule Take-and-Place Technique for Positioning a Membrane Protein on a Lipid Bilayer. Journal of Physical Chemistry C, 2015, 119, 21184-21190.	3.1	1
102	Dose dependent distribution and aggregation of gold nanoparticles within human lung adeno-carcinoma cells. RSC Advances, 2015, 5, 98309-98317.	3.6	2
103	A low-temperature partial-oxidation-methanol micro reformer with high fuel conversion rate and hydrogen production yield. Applied Energy, 2015, 138, 21-30.	10.1	32
104	Micro/Nanofluidic Devices for Single Cell Analysis. Micromachines, 2014, 5, 154-157.	2.9	17
105	Monolayer Uniformity of the Nanosphere Mask: Two-dimensional ordered gold nanoparticle arrays with nanosphere lithography.. IEEE Nanotechnology Magazine, 2014, 8, 20-28.	1.3	3
106	Impact of pulse duration on localized single-cell nano-electroporation. Analyst, The, 2014, 139, 6249-6258.	3.5	32
107	Electrical characterization of metal electrodes deposited on flexible polydimethylsiloxane substrates for folding test. , 2014, , .		0
108	Improvement on electrochemical performance by partial replacement of Ru@Pt core-shell nanocatalyst by temperature modification. Journal of Physics: Conference Series, 2014, 557, 012106.	0.4	0

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109	Nanoelectroporation and controllable intracellular delivery into localized single cell with high transfection and cell viability. , 2014, , .		1
110	Formation of suspended bilayer lipid membrane between electrowetting-driven encapsulated droplets. Biomicrofluidics, 2014, 8, 052006.	2.4	4
111	Pt@TiO ₂ - Au nanoCORRUGATED STRUCTURE for visible-light active photocatalysis. Journal of Physics: Conference Series, 2014, 557, 012103.	0.4	0
112	A novel simple 3D SU8 prism-SOI waveguide interface for light coupling improvement. , 2014, , .		0
113	High-efficiency rare cell identification on a high-density self-assembled cell arrangement chip. Biomicrofluidics, 2014, 8, 036501.	2.4	7
114	Gradient static-strain stimulation in a microfluidic chip for 3D cellular alignment. Lab on A Chip, 2014, 14, 482-493.	6.0	56
115	Nanocalibrated Single-Cell-Membrane Nanoelectroporation: For higher efficiency with high cell viability.. IEEE Nanotechnology Magazine, 2014, 8, 30-34.	1.3	14
116	Enhancement of catalytic efficiency by partial replacement of ruthenium with platinum nanoparticles for direct methanol fuel cell. , 2014, , .		0
117	Nano-porous membranes mediate podocyte proliferation and morphology. , 2014, , .		0
118	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
119	Substrate Curvature Gradient Drives Rapid Droplet Motion. Physical Review Letters, 2014, 113, 026101.	7.8	162
120	A well-dispersed catalyst on porous silicon micro-reformer for enhancing adhesion in the catalyst-coating process. International Journal of Hydrogen Energy, 2014, 39, 7753-7764.	7.1	14
121	Glass microporous fiber/nanoporous polytetrafluoroethylene composite membranes for high efficient phosphoric acid fuel cell. Journal of Physics: Conference Series, 2014, 557, 012107.	0.4	0
122	Cotton-based Diagnostic Devices. Scientific Reports, 2014, 4, 6976.	3.3	29
123	Biosynthesis of Silver and Gold Nanoparticles for Potential Biomedical Applications—A Brief Review. Journal of Nanopharmaceutics and Drug Delivery, 2014, 2, 249-265.	0.3	16
124	Strong SERS biosensor with gold nanostructure sandwiched on graphene. , 2013, , .		0
125	In-situ Formation and Assembly of Gold Nanoparticles by Gum Arabic as Efficient Photothermal Agent for Killing Cancer Cells. Macromolecular Bioscience, 2013, 13, 1314-1320.	4.1	15
126	Micropatterned stretching system for the investigation of mechanical tension on neural stem cells behavior. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 345-355.	3.3	38

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127	Charge-selective gate of arrayed MWCNTs for ultra high-efficient biomolecule enrichment by nano-electrostatic sieving (NES). <i>Biosensors and Bioelectronics</i> , 2013, 43, 453-460.	10.1	8
128	Direct measurement of electrostatic fields using single Teflon nanoparticle attached to AFM tip. <i>Nanoscale Research Letters</i> , 2013, 8, 519.	5.7	3
129	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.	5.7	7
130	A high density monolayer cells self-assembly chip for high-throughput rare cells detection. , 2013, , .		0
131	Increased proliferation of primary chondrocyte cells by nanostructure and cycling mechanical stimulation on PDMS cell chip. , 2013, , .		0
132	High-throughput sperm sorting in a micro diffuser type fluidic system. , 2013, , .		2
133	Strong SERS from gold nanostructure sandwiched on single layer graphene for high sensitive biomolecule detection. , 2013, , .		0
134	Micro diffuser-type movement inversion sorter for high-efficient sperm sorting. , 2013, , .		0
135	Dynamics of hydrogen nanobubbles in KLH protein solution studied with in situ wet-TEM. <i>Soft Matter</i> , 2013, 9, 8856.	2.7	57
136	In-parallel rare cells identification by high throughput cells self-assembly. , 2013, , .		0
137	Nanofocused electric field for localized single cell nanoelectroporation with membrane reversibility. , 2013, , .		1
138	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
139	Cascaded nano-porous silicon for high sensitive biosensing and functional group distinguishing by Mid-IR spectra. <i>Biosensors and Bioelectronics</i> , 2013, 47, 80-85.	10.1	9
140	Simple and Fast Method To Fabricate Single-Nanoparticle-Terminated Atomic Force Microscope Tips. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13239-13246.	3.1	7
141	Stable and wavelength-tunable silicon-micro-ring-resonator based erbium-doped fiber laser. <i>Optics Express</i> , 2013, 21, 2869.	3.4	26
142	Dual faced SERS nanoparticles equipped with tri-functions for target drug delivering into single cell. , 2013, , .		0
143	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
144	Squeezing at Entrance of Proton Transport Pathway in Proton-translocating Pyrophosphatase upon Substrate Binding. <i>Journal of Biological Chemistry</i> , 2013, 288, 19312-19320.	3.4	9

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145	Tuning nano electric field to affect restrictive membrane area on localized single cell nano-electroporation. Applied Physics Letters, 2013, 103, .	3.3	32
146	On demand micro-fuel-droplets supply system for self-sustained direct methanol fuel cells. , 2013, , .		0
147	Cnts gated nanofluidic system for single bacterium detection by GNPS-based redox signal amplification. , 2013, , .		1
148	CNTs gated nanofluidic system for single bacterium detection by GNPs-based redox signal amplification. , 2013, , .		0
149	Label-free blood cells separation and enrichment from whole blood by high-throughput hydrodynamic and inertial force. , 2013, , .		2
150	High Performance Nanocatalysts Supported on Micro/Nano Carbon Structures Using Ethanol Immersion Pretreatment for Micro DMFCs. Journal of Physics: Conference Series, 2013, 476, 012064.	0.4	1
151	Recent Trends on Micro/Nanofluidic Single Cell Electroporation. Micromachines, 2013, 4, 333-356.	2.9	61
152	Measurement of Organic Chemical Refractive Indexes Using an Optical Time-Domain Reflectometer. Sensors, 2012, 12, 481-488.	3.8	14
153	Increased Interfacial Strength at Microscale Silicon-Polymer Interface by Nanowires Assisted Micro-Sandglass Shaped Interlocks. Japanese Journal of Applied Physics, 2012, 51, 027302.	1.5	2
154	Fabrication of single bacterium sensing chip via silver deposited corrugated polystyrene nanobead array. , 2012, , .		0
155	From high efficient protein micro chip toward ultra high sensitive single molecule Nano array. , 2012, , .		0
156	A high efficient POM micro-methanol reformer. , 2012, , .		0
157	Thickness Control over Ionomer Coatings on Nano Patterned Three-Phase Zones for a Highly Efficient Electrode. Journal of the Electrochemical Society, 2012, 159, F242-F248.	2.9	5
158	Chemical auxiliary-free polymerization yielding non-linear PEG for protein-resistant application. RSC Advances, 2012, 2, 7174.	3.6	1
159	Proton exchange membranes based on aryl epoxy resin for fuel cells operated at elevated temperatures. , 2012, , .		0
160	Gold-coated polystyrene bead array and the investigation of their plasmon coupling abilities. , 2012, , .		0
161	Self-aligned wet-cell for hydrated microbiology observation in TEM. Lab on A Chip, 2012, 12, 340-347.	6.0	42
162	High efficient μ-PEMFCs by integrating micro/nano scaled performance improving components. , 2012, , .		0

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163	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
164	Ligand-exchange of TOPO-capped CdSe quantum dots with quinuclidines. , 2012, , .		0
165	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
166	Integrated SU-8 Prisms and Microgratings for Polarization-Selective Fiber-to-Silicon Waveguide Coupling. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1054-1056.	2.5	1
167	High-throughput white blood cells (leukocytes) separation and enrichment from whole blood by hydrodynamic and inertial force. , 2012, , .		2
168	Energy cascading by triple-bubble interactions via time-delayed control. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 015014.	2.6	0
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