

John T W Yeow

List of Publications by Year in descending order

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200
papers

3,478
citations

185998

28
h-index

161609

54
g-index

204
all docs

204
docs citations

204
times ranked

4216
citing authors

#	ARTICLE	IF	CITATIONS
1	Barrier Lyapunov Function-Based Output Regulation Control of an Electromagnetic Micromirror With Transient Performance Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4080-4091.	5.9	4
2	Nanomaterials in Smart Packaging Applications: A Review. Small, 2022, 18, e2101171.	5.2	40
3	Carbon-Based THz Microstrip Antenna Design: A Review. IEEE Open Journal of Nanotechnology, 2022, 3, 15-23.	0.9	6
4	Doped Polyaniline/Graphene Composites for Photothermoelectric Detectors. ACS Applied Nano Materials, 2022, 5, 7967-7973.	2.4	14
5	Inkjet-printed CMUT humidity sensors with high sensitivity and low hysteresis. Sensors and Actuators B: Chemical, 2021, 327, 128920.	4.0	22
6	A reusable, reagent-less free chlorine sensor using gold thin film electrode. Analyst, The, 2021, 146, 2626-2631.	1.7	12
7	A Low-Cost Multi-Parameter Water Quality Monitoring System. Sensors, 2021, 21, 3775.	2.1	17
8	Boron Nitride-Based Nanomaterials for Radiation Shielding: A Review. IEEE Nanotechnology Magazine, 2021, 15, 8-17.	0.9	15
9	Self-Healed and Shape-Adaptive MXene Integrated Hydrogel for Wearable Electronic Applications. , 2021, , .		0
10	A Study of Coulomb Explosion Induced by Freestanding Carbon Nanotube During Field Emission. , 2021, , .		0
11	A flexible, scalable, and self-powered mid-infrared detector based on transparent PEDOT: PSS/graphene composite. Carbon, 2020, 156, 339-345.	5.4	64
12	A high-performance CMUT humidity sensor based on cellulose nanocrystal sensing film. Sensors and Actuators B: Chemical, 2020, 320, 128596.	4.0	19
13	Optimal Second Order Integral Sliding Mode Based Composite Nonlinear Feedback Approach for an Electrostatic Micromirror. IEEE Access, 2020, 8, 145960-145967.	2.6	4
14	Experimental validation of internal model approach for tracking control of a MEMS micromirror without angular velocity measurement. Nonlinear Dynamics, 2020, 102, 1437-1450.	2.7	1
15	Effect of B-doping on the morphological, structural and optical properties of SILAR deposited CuO films. Physica B: Condensed Matter, 2020, 599, 412578.	1.3	12
16	A Dual-Frequency Capacitive Micromachined Ultrasonic Transducer (CMUT) for Vapor Detection. , 2020, , .		1
17	Capacitive micromachined ultrasound transducers for intravascular ultrasound imaging. Microsystems and Nanoengineering, 2020, 6, 73.	3.4	41
18	Micro triboelectric ultrasonic device for acoustic energy transfer and signal communication. Nature Communications, 2020, 11, 4143.	5.8	156

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19	Adaptive Visually Servoed Tracking Control for Wheeled Mobile Robot with Uncertain Model Parameters in Complex Environment. Complexity, 2020, 2020, 1-13.	0.9	4
20	A Special Issue on Nanomagnetism [The Editor's Desk]. IEEE Nanotechnology Magazine, 2020, 14, 4-4.	0.9	0
21	Two-dimensional materials applied for room-temperature thermoelectric photodetectors. Materials Research Express, 2020, 7, 112001.	0.8	19
22	Review of State-of-the-Art Organic Solar Cells based on Carbon Nanotubes and Graphene. ECS Journal of Solid State Science and Technology, 2020, 9, 105004.	0.9	8
23	Pitaya detection in orchards using the MobileNet-YOLO model. , 2020, , .		13
24	Inkjet-Printed Capacitive Micromachined Ultrasonic Transducer (CMUT) for Moisture Sensing. , 2020, , .		0
25	Global Fast Terminal Sliding Mode Control for a Quadrotor UAV. , 2020, , .		1
26	A Special Issue on Semiconductor Quantum Devices [The Editor's Desk]. IEEE Nanotechnology Magazine, 2019, 13, 3-3.	0.9	0
27	Photoacoustic Imaging with Capacitive Micromachined Ultrasound Transducers: Principles and Developments. Sensors, 2019, 19, 3617.	2.1	26
28	Special Issue on Nanopackaging: Part II [The Editor's Desk]. IEEE Nanotechnology Magazine, 2019, 13, 3-3.	0.9	0
29	Large-Area and Broadband Thermoelectric Infrared Detection in a Carbon Nanotube Black-Body Absorber. ACS Nano, 2019, 13, 13285-13292.	7.3	41
30	Wide-Ranging Research [The Editor's Desk]. IEEE Nanotechnology Magazine, 2019, 13, 3-3.	0.9	0
31	A Special Issue on Nanoacoustics [The Editor's Desk]. IEEE Nanotechnology Magazine, 2019, 13, 3-3.	0.9	0
32	A Special Issue on Nanophotonics and Nanoelectronics Part 2 [The Editor's Desk]. IEEE Nanotechnology Magazine, 2019, 13, 3-3.	0.9	0
33	Development of a highly sensitive humidity sensor based on the capacitive micromachined ultrasonic transducer. Sensors and Actuators B: Chemical, 2019, 286, 39-45.	4.0	31
34	Self-powered on-line ion concentration monitor in water transportation driven by triboelectric nanogenerator. Nano Energy, 2019, 62, 442-448.	8.2	63
35	Highly sensitive CMUT-based humidity sensors built with nitride-to-oxide wafer bonding technology. Sensors and Actuators B: Chemical, 2019, 294, 123-131.	4.0	23
36	Wrapping Up 2019 [The Editor's Desk]. IEEE Nanotechnology Magazine, 2019, 13, 4-5.	0.9	2

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37	The field emission properties of a new design: multi-pixel carbon nanotube field emitters for imaging application. , 2019, , .		0
38	Modelling and robust position and orientation control of a non-affine nonlinear dielectrophoresis-based micromanipulation system. Transactions of the Institute of Measurement and Control, 2019, 41, 2582-2595.	1.1	2
39	Wrist and Finger Gesture Recognition With Single-Element Ultrasound Signals: A Comparison With Single-Channel Surface Electromyogram. IEEE Transactions on Biomedical Engineering, 2019, 66, 1277-1284.	2.5	51
40	Bismuth oxide-based nanocomposite for high-energy electron radiation shielding. Journal of Materials Science, 2019, 54, 3023-3034.	1.7	24
41	A robust control approach for MEMS capacitive micromachined ultrasonic transducer. Transactions of the Institute of Measurement and Control, 2019, 41, 107-116.	1.1	7
42	Compensated Row-Column Ultrasound Imaging Systems with Data-Driven Point Spread Function Learning. Lecture Notes in Computer Science, 2019, , 429-441.	1.0	0
43	Polymers and organic materials-based pH sensors for healthcare applications. Progress in Materials Science, 2018, 96, 174-216.	16.0	122
44	Development of a Novel CMUT-Based Concentric Dual-Element Ultrasonic Transducer: Design, Fabrication, and Characterization. Journal of Microelectromechanical Systems, 2018, 27, 538-546.	1.7	16
45	Effect of carbon nanotubes on electromagnetic interference shielding of carbon fiber reinforced polymer composites. Polymer Composites, 2018, 39, E655.	2.3	39
46	Modelling and adaptive dynamic sliding mode control of dielectrophoresis-based micromanipulation. Transactions of the Institute of Measurement and Control, 2018, 40, 122-134.	1.1	3
47	Modeling and closed loop control of a polymer composite-based hard-magnetic micromirror for optical switching applications. Nonlinear Dynamics, 2018, 92, 59-74.	2.7	15
48	Electrochemical sensing of acetaminophen using multi-walled carbon nanotube and β -cyclodextrin. Sensors and Actuators B: Chemical, 2018, 254, 896-909.	4.0	154
49	Design and Application of Enhanced Composite Nonlinear Feedback Control Based on Genetic Algorithm. , 2018, , .		4
50	A Special Issue on Nanopackaging [The Editor's Desk]. IEEE Nanotechnology Magazine, 2018, 12, 3-3.	0.9	0
51	Optimized Bending Stable Carbon Nanotube - Polymer Composite for Room Temperature Thermal Detection. , 2018, , .		0
52	Noteworthy Nanoelectronics [The Editor's Desk]. IEEE Nanotechnology Magazine, 2018, 12, 3-3.	0.9	0
53	Trapping, separating, and palpating microbead clusters in droplets and flows using capacitive micromachined ultrasonic transducers (CMUTs). Sensors and Actuators B: Chemical, 2018, 276, 481-488.	4.0	10
54	Tailoring MWCNTs and β -Cyclodextrin for Sensitive Detection of Acetaminophen and Estrogen. ACS Applied Materials & Interfaces, 2018, 10, 21411-21427.	4.0	66

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55	A Special Issue on Nanodielectrics [The Editor's Desk]. IEEE Nanotechnology Magazine, 2018, 12, 3-3.	0.9	0
56	Tracking of square reference signals using internal model-based LQG robust controller for positioning of a micro-electro-mechanical systems micromirror. Micro and Nano Letters, 2018, 13, 704-708.	0.6	5
57	Flexible Polymer-Carbon Nanotube Composite with High-Response Stability for Wearable Thermal Imaging. ACS Applied Materials & Interfaces, 2018, 10, 26604-26609.	4.0	29
58	Nanotechnology Applications Special Issue [The Editor's Desk]. IEEE Nanotechnology Magazine, 2018, 12, 3-3.	0.9	1
59	Optimization on benzocyclobutene-based CMUT fabrication with an inverse structure. Sensors and Actuators A: Physical, 2018, 281, 1-8.	2.0	8
60	Influence of zeolite shape and particle size on their capacity to adsorb uremic toxin as powders and as fillers in membranes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1594-1601.	1.6	21
61	A novel field emission microscopy method to study field emission characteristics of freestanding carbon nanotube arrays. Nanotechnology, 2017, 28, 155704.	1.3	18
62	An adsorption study of indoxyl sulfate by zeolites and polyethersulfone-zeolite composite membranes. Materials and Design, 2017, 120, 328-335.	3.3	28
63	Practical CMUT Fabrication With a Nitride-to-Oxide-Based Wafer Bonding Process. Journal of Microelectromechanical Systems, 2017, 26, 829-836.	1.7	8
64	Numerical and experimental study of radiation induced conductivity change of carbon nanotube filled polymers. Nanotechnology, 2017, 28, 255501.	1.3	3
65	Coulomb explosion of vertically aligned carbon nanofibre induced by field electron emission. RSC Advances, 2017, 7, 40470-40479.	1.7	8
66	Compensated Row-Column Ultrasound Imaging System Using Multilayered Edge Guided Stochastically Fully Connected Random Fields. Scientific Reports, 2017, 7, 10644.	1.6	8
67	Integral sliding mode based optimal composite nonlinear feedback control for capacitive micromachined ultrasonic transducers (CMUTs) system. , 2017, , .		1
68	Design and Fabrication of a High-Power Air-Coupled Capacitive Micromachined Ultrasonic Transducer Array With Concentric Annular Cells. IEEE Transactions on Electron Devices, 2017, 64, 4636-4643.	1.6	13
69	Lumped element modeling of air-coupled capacitive micromachined ultrasonic transducers with annular cell geometry. Ultrasonics, 2017, 76, 19-27.	2.1	11
70	Nonlinear control for a MEMS hard-magnetic micromirror by using backstepping sliding mode method. , 2017, , .		1
71	Understanding the Underlying Mechanisms [The Editor's Desk]. IEEE Nanotechnology Magazine, 2017, 11, 3-3.	0.9	0
72	Digging Deep on Heterojunction Devices [The Editor's Desk]. IEEE Nanotechnology Magazine, 2017, 11, 3-3.	0.9	0

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73	An Optimization and Comparative Study of Air-Coupled CMUT Cells With Circular and Annular Geometries. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1723-1734.	1.7	10
74	Experimental validation of Nussbaum gain adaptive control for a polymer composite based electromagnetic micromirror. , 2017, , .		2
75	Light emission from vertically aligned carbon nanotube field emitters during Joule heating enhanced field emission. , 2017, , .		0
76	Waste Not, Want Not [The Editor's Desk]. IEEE Nanotechnology Magazine, 2017, 11, 3-3.	0.9	0
77	Quantitative Analysis of Musculoskeletal Ultrasound: Techniques and Clinical Applications. BioMed Research International, 2017, 2017, 1-2.	0.9	5
78	Internal Model-Based Robust Tracking Control Design for the MEMS Electromagnetic Micromirror. Sensors, 2017, 17, 1215.	2.1	23
79	A Special Issue on Spectroscopy [The Editor's Desk]. IEEE Nanotechnology Magazine, 2017, 11, 3-3.	0.9	0
80	Fabrication and characterization of individually ballasted carbon nanotube field emitter arrays using doped silicon resistor. , 2017, , .		1
81	An Enhanced Robust Control Algorithm Based on CNF and ISM for the MEMS Micromirror against Input Saturation and Disturbance. Micromachines, 2017, 8, 326.	1.4	13
82	Compensated Row-Column Ultrasound Imaging System Using Three Dimensional Random Fields. Lecture Notes in Computer Science, 2017, , 107-116.	1.0	0
83	A feasibility study of piezoelectric micromachined ultrasonic transducers fabrication using a multi-user MEMS process. Sensors and Actuators A: Physical, 2016, 247, 430-439.	2.0	17
84	Study of ballasting carbon nanotube field emitter arrays with coaxial gate using doped silicon resistor. , 2016, , .		1
85	A CMUT array based on annular cell geometry for air-coupled applications. , 2016, , .		1
86	Modeling of dielectrophoretic forces and electrorotational torque towards nonlinear control of micromanipulation system. , 2016, , .		0
87	Fabrication of capacitive micromachined ultrasonic transducers based on adhesive wafer bonding technique. Journal of Micromechanics and Microengineering, 2016, 26, 115019.	1.5	20
88	Tracking control with several new control methods for different kinds of linear or approach linear systems. , 2016, , .		0
89	Low-cost implementation of acoustophoretic devices. , 2016, , .		0
90	PMMA/MWCNT nanocomposite for proton radiation shielding applications. Nanotechnology, 2016, 27, 234001.	1.3	31

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91	Field emission microscopy study of freestanding carbon nanotube array. , 2016, , .		3
92	Capacitive micromachined ultrasonic transducers based on annular cell geometry for air-coupled applications. Ultrasonics, 2016, 71, 152-160.	2.1	22
93	Nanotechnology-Based Terahertz Biological Sensing: A review of its current state and things to come. IEEE Nanotechnology Magazine, 2016, 10, 30-38.	0.9	39
94	Fabrication of a Curved Rowâ€“Column Addressed Capacitive Micromachined Ultrasonic Transducer Array. Journal of Microelectromechanical Systems, 2016, 25, 675-682.	1.7	21
95	Sliding mode control with gain-scheduled and improved boundary layer for nonholonomic multi-robot formation. , 2016, , .		0
96	A distributed output regulation problem for multi-agent linear systems with application to leader-follower robot's formation control. , 2016, , .		6
97	Direct bonding of liquid crystal polymer to glass. RSC Advances, 2016, 6, 107200-107207.	1.7	13
98	Study of Freestanding carbon nanotube array field emission uniformity with field emission microscopy. , 2016, , .		3
99	Sensor and Sensibility [The Editor's Desk]. IEEE Nanotechnology Magazine, 2016, 10, 3-3.	0.9	0
100	A Nano-Based Biosensing Special Issue [The Editor's Desk]. IEEE Nanotechnology Magazine, 2016, 10, 3-3.	0.9	0
101	Effective and Efficient [The Editor's Desk]. IEEE Nanotechnology Magazine, 2016, 10, 4-4.	0.9	0
102	Closed-loop control of a 2-D mems micromirror with sidewall electrodes for a laser scanning microscope system. International Journal of Optomechatronics, 2016, 10, 1-13.	3.3	7
103	Presenting a Special Issue [The Editor's Desk]. IEEE Nanotechnology Magazine, 2016, 10, 3-3.	0.9	0
104	On-chip cell lysis by antibacterial non-leaching reusable quaternary ammonium monolithic column. Biomedical Microdevices, 2016, 18, 2.	1.4	6
105	Dynamic modeling of a polymer composite based hard-magnetic micro-mirror. , 2015, , .		6
106	Creatinine adsorption capacity of electrospun polyacrylonitrile (<scp>PAN</scp>)â€“zeolite nanofiber membranes for potential artificial kidney applications. Journal of Applied Polymer Science, 2015, 132, .	1.3	43
107	Constraint adaptive output regulation of output feedback systems with application to electrostatic torsional micromirror. International Journal of Robust and Nonlinear Control, 2015, 25, 504-520.	2.1	16
108	Bismuth Sulfide Nanoflowers for Detection of X-rays in the Mammographic Energy Range. Scientific Reports, 2015, 5, 9440.	1.6	32

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109	Materials analyses and electrochemical impedance of implantable metal electrodes. Physical Chemistry Chemical Physics, 2015, 17, 10135-10145.	1.3	22
110	Packaging, Performance, and Storage [The Editor's Desk]. IEEE Nanotechnology Magazine, 2015, 9, 3-3.	0.9	0
111	Fabrication of polymer-based wafer-bonded capacitive micromachined ultrasonic transducers. , 2015, , .		2
112	A novel deflection shape function for rectangular capacitive micromachined ultrasonic transducer diaphragms. Sensing and Bio-Sensing Research, 2015, 5, 62-70.	2.2	4
113	Prepare for Impact [The Editor's Desk]. IEEE Nanotechnology Magazine, 2015, 9, 5-5.	0.9	0
114	Angle tracking of MEMS hard-magnetic micromirror by PID control. , 2015, , .		12
115	Effects of particle size on X-ray transmission characteristics of PDMS/Ag nano- and microcomposites. , 2015, , .		3
116	Initial investigation of entropy of mixing in polymer carbon nanotube composite. , 2015, , .		0
117	Things to Ponder [The Editor's Desk]. IEEE Nanotechnology Magazine, 2015, 9, 3-3.	0.9	0
118	Facile microfluidic channels for acoustophoresis on a budget. Biomedical Microdevices, 2015, 17, 99.	1.4	3
119	New Technology Yields New Applications [The Editor's Desk]. IEEE Nanotechnology Magazine, 2015, 9, 4-4.	0.9	0
120	Compensated Row-Column Ultrasound Imaging System Using Fisher Tippet Multilayered Conditional Random Field Model. PLoS ONE, 2015, 10, e0142817.	1.1	6
121	Fabrication and Electrical Properties Analysis of SWCNTs/PDMS Composites. , 2015, , .		0
122	Polymer nanocomposite for space applications. , 2014, , .		4
123	Effect of CNTs alignment on electrical conductivity of PDMS/MWCNTs composites. , 2014, , .		1
124	A CMUT-based finger-mounted 3D ultrasound probe. , 2014, , .		2
125	A novel method for measuring dielectric charging of CMUT arrays. , 2014, , .		3
126	Carbon Nanotube Gas Sensors. Springer Series on Chemical Sensors and Biosensors, 2014, , 109-174.	0.5	10

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127	Lysis of gram-positive and gram-negative bacteria by antibacterial porous polymeric monolith formed in microfluidic biochips for sample preparation. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5977-5987.	1.9	5
128	A row-addressed column addressed micromachined ultrasonic transducer array for surface scanning applications. <i>Ultrasonics</i> , 2014, 54, 2072-2080.	2.1	15
129	Integral sliding mode based optimal composite nonlinear feedback control for a class of systems. <i>Control Theory and Technology</i> , 2014, 12, 139-146.	1.0	13
130	The Impact of Energy and Biomedical Applications [The Editor's Desk]. <i>IEEE Nanotechnology Magazine</i> , 2014, 8, 3-3.	0.9	0
131	Future flexibility [From the Editor's Desk]. <i>IEEE Nanotechnology Magazine</i> , 2014, 8, 4-4.	0.9	0
132	A Growing Nano Community [The Editor's Desk]. <i>IEEE Nanotechnology Magazine</i> , 2014, 8, 4-4.	0.9	2
133	Moving Toward Added Functionality and Lower Cost [The Editor's Desk]. <i>IEEE Nanotechnology Magazine</i> , 2014, 8, 3-3.	0.9	0
134	Polymer nanocomposite-based shielding against diagnostic X-rays. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4939-4946.	1.3	135
135	PDMS/single-walled carbon nanotube composite for proton radiation shielding in space applications. <i>Materials Letters</i> , 2013, 108, 79-83.	1.3	51
136	In vitro Clearance and Hemocompatibility Assessment of Ultrathin Nanoporous Silicon Membranes for Hemodialysis Applications Using Human Whole Blood. <i>Blood Purification</i> , 2013, 35, 305-313.	0.9	9
137	Self-heating Schottky emission from a ballasted carbon nanotube array. <i>Carbon</i> , 2013, 58, 87-91.	5.4	8
138	Design and Fabrication of Carbon Nanotube Field Emission Cathode with Coaxial Gate and Ballast Resistor. <i>Small</i> , 2013, 9, 3385-3389.	5.2	18
139	Effective atomic numbers and electron densities of bacteriorhodopsin and its comprising amino acids in the energy range 1 keV-100 GeV. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 300, 30-34.	0.6	10
140	Antibacterial porous polymeric monolith columns with amphiphilic and polycationic character on cross-linked PMMA substrates for cell lysis applications. <i>RSC Advances</i> , 2013, 3, 24177.	1.7	7
141	Architecture for MEMS-based analogue demodulation. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 045013.	1.5	10
142	Optimization of ballasted carbon nanotube array for X-ray source. , 2013, , .		0
143	The Design and Fabrication of Carbon-Nanotube-Based Field Emission X-Ray Cathode With Ballast Resistor. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 464-470.	1.6	20
144	Cell electroporation by CNT-featured microfluidic chip. <i>Lab on A Chip</i> , 2013, 13, 2585.	3.1	30

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145	Fabrication of electro-microfluidic channel for single cell electroporation. Biomedical Microdevices, 2013, 15, 759-766.	1.4	10
146	A simple and quick fabrication method of microfluidic cell sorter using Dielectrophoresis. , 2013, , .		2
147	Study on Predicting the Deformed Membranes Based on Silicon Nitride Materials with New Deflection Functions for Calculating the Capacitance of Circular Diaphragm CMUTs. Advanced Materials Research, 2013, 703, 3-7.	0.3	0
148	CNT-embedded electro-microchannel for cell electroporation. , 2013, , .		0
149	Application of twisting algorithm to a 2D electrostatic MEMS micromirror. , 2013, , .		1
150	Sliding Mode Control of a 2D Torsional MEMS Micromirror with Sidewall Electrodes. International Journal of Intelligent Mechatronics and Robotics, 2013, 3, 16-26.	0.4	0
151	Antibacterial Properties of Poly(Quaternary Ammonium) Modified Gold and Titanium Dioxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 4601-4606.	0.9	12
152	Tracking control of an electrostatic torsional micromirror beyond the pull-in limit with enhanced performance. , 2012, , .		1
153	A MEMS Analog demodulator. , 2012, , .		2
154	Low voltage electrostatic actuation and angular displacement measurement of micromirror coupled with resonant drive circuit. , 2012, , .		2
155	MEMS Demodulator. , 2012, , .		0
156	An FPGA-based ultrasound imaging system using capacitive micromachined ultrasonic transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1513-1520.	1.7	15
157	PolyMethyl Methacrylate Thin-Film-Based Field Emission Microscope. IEEE Nanotechnology Magazine, 2012, 11, 441-443.	1.1	9
158	Ballasted carbon nanotube array based X-ray tube. , 2012, , .		1
159	Sliding mode control of a 2D torsional MEMS micromirror with sidewall electrodes. , 2012, , .		1
160	Polymer-Composite Materials for Radiation Protection. ACS Applied Materials & Interfaces, 2012, 4, 5717-5726.	4.0	400
161	CMUT front-end circuits designed in a high-voltage CMOS process and the phase measurement receiver circuit. , 2012, , .		1
162	Integration of nanoparticle cell lysis and microchip PCR for one-step rapid detection of bacteria. Biomedical Microdevices, 2012, 14, 337-346.	1.4	10

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163	The use of semiconducting single-walled carbon nanotube films to measure X-ray dose. Carbon, 2012, 50, 2197-2201.	5.4	9
164	Bacteriorhodopsin for superficial X-ray sensing. Sensors and Actuators B: Chemical, 2012, 166-167, 177-183.	4.0	6
165	Electrical resistance response evaluation of semiconducting single-walled carbon nanotube film for X-ray sensing. , 2011, , .		1
166	Theoretical calculation of Radiation Induced Conductivity in nanomaterials. , 2011, , .		0
167	Evaluation of antibacterial property induced by surface-modified titanium dioxide nanoparticles. , 2011, , .		0
168	A 32 x 32 element row-column addressed capacitive micromachined ultrasonic transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1266-1271.	1.7	60
169	A 1-D Capacitive Micromachined Ultrasonic Transducer Imaging Array Fabricated With a Silicon-Nitride-Based Fusion Process. IEEE/ASME Transactions on Mechatronics, 2011, 16, 861-865.	3.7	21
170	Study of a novel cell lysis method with titanium dioxide for Lab-on-a-Chip devices. Biomedical Microdevices, 2011, 13, 527-532.	1.4	17
171	Fabrication and characterization of a radiation sensor based on bacteriorhodopsin. Biosensors and Bioelectronics, 2011, 26, 2171-2176.	5.3	20
172	Conductive polymer-based sensors for biomedical applications. Biosensors and Bioelectronics, 2011, 26, 1825-1832.	5.3	419
173	A CMUT-based real-time volumetric ultrasound imaging system with row-column addressing. , 2011, , .		12
174	Carbon nanotubes for voltage reduction and throughput enhancement of electrical cell lysis on a lab-on-a-chip. Nanotechnology, 2011, 22, 325705.	1.3	22
175	Lysing E. Coli Using Titanium Dioxide Particles for Lab-on-a-Chip Applications. , 2010, , .		0
176	Design and analysis of resonant drive circuit for electrostatic actuators. , 2010, , .		5
177	A capacitive humidity sensor based on ordered macroporous silicon with thin film surface coating. Sensors and Actuators B: Chemical, 2010, 149, 136-142.	4.0	107
178	Simulation of field emission current uniformity of low-density freestanding CNT array. , 2010, , .		4
179	A 2-D Micromachined SOI MEMS Mirror With Sidewall Electrodes for Biomedical Imaging. IEEE/ASME Transactions on Mechatronics, 2010, 15, 501-510.	3.7	19
180	Design, Fabrication, and Characteristics of a MEMS Micromirror With Sidewall Electrodes. Journal of Microelectromechanical Systems, 2010, 19, 619-631.	1.7	32

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181	Humidity sensing characteristics of laterally aligned ZnO nanowires by dielectrophoresis method. , 2010, , .		1
182	Fabricating ZnO nanowires-based humidity sensor via dielectrophoresis method. , 2010, , .		0
183	The effects of nanoparticles on polymerase chain reaction. , 2010, , .		1
184	Reduction of voltage requirements for electrical cell lysis using CNT on electrode. , 2010, , .		1
185	Design and fabrication of 2 and 4 biaxial micromirror array. , 2010, , .		0
186	Characterization of micro forces in pushing flat micro-sized objects. , 2010, , .		0
187	The effects of gold nanoparticles with different sizes on polymerase chain reaction efficiency. Nanotechnology, 2009, 20, 325702.	1.3	39
188	Humidity Sensing of Ordered Macroporous Silicon With HfO_2 Thin-Film Surface Coating. IEEE Sensors Journal, 2009, 9, 541-547.	2.4	10
189	Fabricating capacitive micromachined ultrasonic transducers with a novel silicon-nitride-Based wafer bonding process. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1074-1084.	1.7	64
190	Design, fabrication, and performance analysis of MEMS mirror with sidewall electrodes. , 2009, , .		0
191	2-D CMUT wafer bonded imaging arrays with a row-column addressing scheme. , 2009, , .		22
192	A carbon fiber-based radiation sensor for dosimetric measurement in radiotherapy. Carbon, 2008, 46, 1869-1873.	5.4	11
193	Effect of Percolation on Electrical Conductivity in a Carbon Nanotube-Based Film Radiation Sensor. , 2008, , .		4
194	Synthesis of aligned zinc oxide nanorods for humidity sensing. , 2008, , .		1
195	1-D CMUT arrays fabricated using a novel wafer bonding process. , 2008, , .		6
196	A Neural Network-based Learning Controller for Micro-sized Object Micromanipulation. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
197	Working towards a sample preparation device with carbon nanotubes. , 2007, , .		3
198	A Customized Radiation Sensor for Ionization Collection. IEEE Sensors Journal, 2006, 6, 1523-1530.	2.4	1

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