

Dong-il Dan Cho

List of Publications by Year in descending order

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times ranked

2413
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete-time variable structure controller with a decoupled disturbance compensator and its application to a CNC servomechanism. IEEE Transactions on Control Systems Technology, 1999, 7, 414-423.	3.2	128
2	The surface/bulk micromachining (SBM) process: a new method for fabricating released MEMS in single crystal silicon. Journal of Microelectromechanical Systems, 1999, 8, 409-416.	1.7	115
3	Nanowire-Based Biosensors: From Growth to Applications. Micromachines, 2018, 9, 679.	1.4	99
4	In-plane single-crystal-silicon microneedles for minimally invasive microfluid systems. Sensors and Actuators A: Physical, 2004, 114, 276-284.	2.0	97
5	A Monocular Vision Sensor-Based Efficient SLAM Method for Indoor Service Robots. IEEE Transactions on Industrial Electronics, 2019, 66, 318-328.	5.2	87
6	Surface/bulk micromachined single-crystalline-silicon micro-gyroscope. Journal of Microelectromechanical Systems, 2000, 9, 557-567.	1.7	84
7	Distributed Luenberger observer design. , 2016, , .		78
8	Fabrication of an electrostatic track-following micro actuator for hard disk drives using SOI wafer. Journal of Micromechanics and Microengineering, 2001, 11, 1-6.	1.5	74
9	Why is (111) Silicon a Better Mechanical Material for MEMS?. , 2001, , 662-665.		60
10	CMAC neural network controller for fuel-injection systems. IEEE Transactions on Control Systems Technology, 1995, 3, 32-38.	3.2	58
11	In Vitro Biocompatibility of Various Polymer-Based Microelectrode Arrays for Retinal Prosthesis. , 2012, 53, 2653.		58
12	Roughened polysilicon for low impedance microelectrodes in neural probes. Journal of Micromechanics and Microengineering, 2003, 13, 373-379.	1.5	54
13	Experimental study of electric suspension for microbearings. Journal of Microelectromechanical Systems, 1992, 1, 23-30.	1.7	47
14	Robust Discrete-Time Variable Structure Control Methods. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 766-775.	0.9	47
15	A Non-Contact-Type RF MEMS Switch for 24-GHz Radar Applications. Journal of Microelectromechanical Systems, 2009, 18, 163-173.	1.7	42
16	Biocompatibility of poloxamer hydrogel as an injectable intraocular lens. Journal of Cataract and Refractive Surgery, 2005, 31, 607-613.	0.7	41
17	Retinal Pigment Epithelial Cell Behavior is Modulated by Alterations in Focal Cell-Substrate Contacts. , 2004, 45, 4210.		33
18	A rotational micro biopsy device for the capsule endoscope. , 2005, , .		33

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19	Resonant frequency estimation for adaptive notch filters in industrial servo systems. <i>Mechatronics</i> , 2017, 41, 45-57.	2.0	33
20	A New Micromachining Technique with (111) Silicon. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 2699-2703.	0.8	32
21	Barbed micro-spikes for micro-scale biopsy. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1279-1284.	1.5	32
22	Microfabrication Methods for Biodegradable Polymeric Carriers for Drug Delivery System Applications: A Review. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 10-18.	1.7	32
23	A Monocular Vision Sensor-Based Obstacle Detection Algorithm for Autonomous Robots. <i>Sensors</i> , 2016, 16, 311.	2.1	32
24	Effective Disturbance Compensation Method Under Control Saturation in Discrete-Time Sliding Mode Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 5696-5707.	5.2	32
25	Highly programmable temperature compensated readout circuit for capacitive microaccelerometer. <i>Sensors and Actuators A: Physical</i> , 2010, 158, 72-83.	2.0	31
26	A proposal for electrically levitating micromotors. <i>Sensors and Actuators A: Physical</i> , 1990, 24, 141-149.	2.0	30
27	Aqueous KOH Etching of Silicon (110): Etch Characteristics and Compensation Methods for Convex Corners. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2499-2508.	1.3	29
28	Mesa-supported, Single-crystal Microstructures Fabricated by the Surface/Bulk Micromachining Process. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 4244-4249.	0.8	25
29	The effects of post-deposition processes on polysilicon Young's modulus. <i>Journal of Micromechanics and Microengineering</i> , 1998, 8, 330-337.	1.5	22
30	A review of silicon microfabricated ion traps for quantum information processing. <i>Micro and Nano Systems Letters</i> , 2015, 3, .	1.7	22
31	Robustness of multivariable discrete-time variable structure control. <i>International Journal of Control</i> , 1999, 72, 1106-1115.	1.2	21
32	Robust SOI process without footing and its application to ultra high-performance microgyroscopes. <i>Sensors and Actuators A: Physical</i> , 2004, 114, 236-243.	2.0	21
33	Arrowhead-Shaped Microelectrodes Fabricated on a Flexible Substrate for Enhancing the Spherical Conformity of Retinal Prostheses. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 251-259.	1.7	21
34	Light-Controlled Biphasic Current Stimulator IC Using CMOS Image Sensors for High-Resolution Retinal Prosthesis and <i>&lt;italic>In Vitro&lt;/italic></i> Experimental Results With rd1 Mouse. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 70-79.	2.5	20
35	Position estimation for mobile robot using in-plane 3-axis IMU and active beacon. , 2009, , .		19
36	Artificial Compound Eye Systems and Their Application: A Review. <i>Micromachines</i> , 2021, 12, 847.	1.4	19

#	ARTICLE	IF	CITATIONS
37	Variable Structure Control Method for Fuel-Injected Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1993, 115, 475-481.	0.9	18
38	An x-axis single-crystalline silicon microgyroscope fabricated by the extended SBM process. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 444-455.	1.7	18
39	Experimental results on sliding mode control of an electromagnetic suspension. <i>Mechanical Systems and Signal Processing</i> , 1993, 7, 283-292.	4.4	17
40	Application of Fuzzy Logic to Vehicle Classification Algorithm in Loop/Piezo-Sensor Fusion Systems. <i>Asian Journal of Control</i> , 2008, 3, 64-68.	1.9	17
41	Sensor data fusion using Unscented Kalman Filter for accurate localization of mobile robots. , 2010, , .		17
42	Fully Differential Chopper-Stabilized Multipath Current-Feedback Instrumentation Amplifier with R-2R DAC Offset Adjustment for Resistive Bridge Sensors. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 63.	1.3	17
43	Ultrasonic vehicle detector for side-fire implementation and extensive results including harsh conditions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2001, 2, 127-134.	4.7	16
44	Selective silicon-on-insulator (SOI) implant: a new micromachining method without footing and residual stress. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1607-1613.	1.5	16
45	Fabrication of pyramid shaped three-dimensional 8Å–8 electrodes for artificial retina. <i>Sensors and Actuators A: Physical</i> , 2006, 130-131, 609-615.	2.0	16
46	Lane assignment problem using a genetic algorithm in the Automated Highway Systems. <i>International Journal of Automotive Technology</i> , 2008, 9, 353-364.	0.7	16
47	Fully Integrated Low-Noise Readout Circuit with Automatic Offset Cancellation Loop for Capacitive Microsensors. <i>Sensors</i> , 2015, 15, 26009-26017.	2.1	16
48	Discrete derivative method for adaptive notch filter-based frequency estimators. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 668-679.	1.6	16
49	Development of a vision-based lane detection system considering configuration aspects. <i>Optics and Lasers in Engineering</i> , 2005, 43, 1193-1213.	2.0	15
50	A novel electrostatic vertical actuator fabricated in one homogeneous silicon wafer using extended SBM technology. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 653-658.	2.0	14
51	Afocal Optical Flow Sensor for Reducing Vertical Height Sensitivity in Indoor Robot Localization and Navigation. <i>Sensors</i> , 2015, 15, 11208-11221.	2.1	14
52	Guidelines for Designing Surface Ion Traps Using the Boundary Element Method. <i>Sensors</i> , 2016, 16, 616.	2.1	14
53	Digital Optoelectrical Pulse Method for Vernier-Type Rotary Encoders. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 431-440.	2.4	14
54	A novel line of sight control system for a robot vision tracking system, using vision feedback and motion-disturbance feedforward compensation. <i>Robotica</i> , 2013, 31, 99-112.	1.3	13

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55	Electrical Characterization of 3D Au Microelectrodes for Use in Retinal Prostheses. <i>Sensors</i> , 2015, 15, 14345-14355.	2.1	13
56	A New Localization System for Indoor Service Robots in Low Luminance and Slippery Indoor Environment Using Afocal Optical Flow Sensor Based Sensor Fusion. <i>Sensors</i> , 2018, 18, 171.	2.1	13
57	A fine pitch MEMS probe unit for flat panel display as manufacturing MEMS application. <i>Sensors and Actuators A: Physical</i> , 2004, 115, 46-52.	2.0	12
58	Experimental Methods for Trapping Ions Using Microfabricated Surface Ion Traps. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	12
59	A New Microfabrication Method for Ion-Trap Chips That Reduces Exposure of Dielectric Surfaces to Trapped Ions. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 28-30.	1.7	12
60	A New Method for Accurately Estimating the Weight of Moving Vehicles Using Piezoelectric Sensors and Adaptive-footprint Tire Model. <i>Vehicle System Dynamics</i> , 2003, 39, 135-148.	2.2	11
61	Wafer-level hermetic packaged microaccelerometer with fully differential BiCMOS interface circuit. <i>Sensors and Actuators A: Physical</i> , 2007, 137, 25-33.	2.0	11
62	Non-ideal behavior of a driving resonator loop in a vibratory capacitive microgyroscope. <i>Microelectronics Journal</i> , 2008, 39, 1-6.	1.1	11
63	Laminar flow assisted anisotropic bacteria absorption for chemotaxis delivery of bacteria-attached microparticle. <i>Micro and Nano Systems Letters</i> , 2016, 4, .	1.7	11
64	Microelectromechanical-System-Based Design of a High-Finesse Fiber Cavity Integrated with an Ion Trap. <i>Physical Review Applied</i> , 2019, 12, .	1.5	11
65	A Robust Control for Engine and Transmission Systems: Enhancement of Shift Quality.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2001, 44, 697-707.	0.3	10
66	A Novel Micromachining Technique to Fabricate Released GaAs Microstructures with a Rectangular Cross Section. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 326-332.	0.8	10
67	Silicon retinal tack for the epiretinal fixation of the polyimide electrode array. <i>Current Applied Physics</i> , 2006, 6, 649-653.	1.1	10
68	Topographic prominence discriminator for the detection of short-latency spikes of retinal ganglion cells. <i>Journal of Neural Engineering</i> , 2017, 14, 016017.	1.8	10
69	Surface/bulk micromachining (SBM) process and deep trench oxide isolation method for MEMS. , 0, , .		9
70	Neuron Stimulation Device Integrated with Silicon Nanowire-Based Photodetection Circuit on a Flexible Substrate. <i>Sensors</i> , 2016, 16, 2035.	2.1	9
71	Online tuning method for notch filter depth in industrial servo systems. , 2016, , .		9
72	A new accurate discretization method for high-frequency component mechatronics systems. <i>Mechatronics</i> , 2019, 62, 102250.	2.0	9

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73	Honeycomb-shaped deep-trench oxide posts combined with the SBM technology for micromachining single-crystal silicon without using SOI. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 734-738.	2.0	8
74	High performance vision tracking system for mobile robot using sensor data fusion with Kalman filter. , 2010, , .		8
75	Multi-Channel Stimulator IC Using a Channel Sharing Method for Retinal Prostheses. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 621-625.	0.5	8
76	Application of adaptive notch filter for resonance suppression in industrial servo systems. , 2014, , .		8
77	Low-Power and Low-Noise Capacitive Sensing IC Using Opamp Sharing Technique. <i>IEEE Sensors Journal</i> , 2016, 16, 7839-7840.	2.4	8
78	A novel MEMS silicon probe card. , 0, , .		7
79	Improvement of bacterial tethering using both physical and chemical surface modification for flagella spin actuators. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 269-276.	4.0	7
80	Mechatronics, robotics and components for automation and control IFAC milestone report. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 10800-10809.	0.4	7
81	Vision tracking system for mobile robots using two Kalman filters and a slip detector. , 2010, , .		7
82	Optimal and Robust Design Method for Two-Chip Out-of-Plane Microaccelerometers. <i>Sensors</i> , 2010, 10, 10524-10544.	2.1	7
83	A Novel In Vitro Sensing Configuration for Retinal Physiology Analysis of a Sub-Retinal Prosthesis. <i>Sensors</i> , 2012, 12, 3131-3144.	2.1	7
84	A new localization method for mobile robot by data fusion of vision sensor data and motion sensor data. , 2012, , .		7
85	Tuningless servo controller using variable structure control and disturbance compensation. , 2014, , .		7
86	Decoupled disturbance compensation under control saturation with discrete-time variable structure control method in industrial servo systems. , 2016, , .		7
87	Electrodeless, Non-Invasive Stimulation of Retinal Neurons Using Time-Varying Magnetic Fields. <i>IEEE Sensors Journal</i> , 2016, 16, 8832-8839.	2.4	7
88	The advantage of topographic prominence-adopted filter for the detection of short-latency spikes of retinal ganglion cells. <i>Korean Journal of Physiology and Pharmacology</i> , 2017, 21, 555.	0.6	7
89	Characterization of the Piezoresistive Effects of Silicon Nanowires. <i>Sensors</i> , 2018, 18, 3304.	2.1	7
90	Deep RL Based Notch Filter Design Method for Complex Industrial Servo Systems. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 2983-2992.	1.6	7

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91	Low-Noise Chopper-Stabilized Multi-Path Operational Amplifier with Nested Miller Compensation for High-Precision Sensors. Applied Sciences (Switzerland), 2020, 10, 281.	1.3	7
92	Fusion of biomedical microcapsule endoscope and microsystem technology. , 0, , .		6
93	A perturbation method for calculating the capacitance of electrostatic motors. Journal of Micromechanics and Microengineering, 1991, 1, 1-9.	1.5	6
94	An automatic transmission model for vehicle control. , 0, , .		6
95	A three-dimensionally silicon-micromachined fluidic amplifier device. Journal of Micromechanics and Microengineering, 1998, 8, 7-14.	1.5	6
96	A new isolation method for single crystal silicon MEMS and its application to z-axis microgyroscope. , 0, , .		6
97	A novel microneedle array integrated with a PDMS biochip for microfluid systems. , 0, , .		6
98	The first sub-deg/HR bias stability, silicon-microfabricated gyroscope. , 0, , .		6
99	Low noise accelerometer microsystem with highly configurable capacitive interface. Analog Integrated Circuits and Signal Processing, 2011, 67, 365-373.	0.9	6
100	Motility Control of Bacteria-Actuated Biodegradable Polymeric Microstructures by Selective Adhesion Methods. Micromachines, 2014, 5, 1287-1295.	1.4	6
101	Evaluation of Lapatinib Powder-Entrapped Biodegradable Polymeric Microstructures Fabricated by X-Ray Lithography for a Targeted and Sustained Drug Delivery System. Materials, 2015, 8, 519-534.	1.3	6
102	Capacitive analog front-end circuit with dual-mode automatic parasitic cancellation loop. Microsystem Technologies, 2017, 23, 515-523.	1.2	6
103	An Application of Stereo Camera with Two Different FoVs for SLAM and Obstacle Detection. IFAC-PapersOnLine, 2018, 51, 148-153.	0.5	6
104	A Review of Bioinspired Vision Sensors and Their Applications. Sensors and Materials, 2015, , .	0.3	6
105	The Effects of Texture and Doping on The Young's Modulus of Polysilicon. Materials Research Society Symposia Proceedings, 1998, 518, 21.	0.1	5
106	Mobile robot vision tracking system using Unscented Kalman Filter. , 2011, , .		5
107	A novel method for estimating the heading angle for a home service robot using a forward-viewing mono-camera and motion sensors. International Journal of Control, Automation and Systems, 2015, 13, 709-717.	1.6	5
108	Insect-Mimetic Imaging System Based on a Microlens Array Fabricated by a Patterned-Layer Integrating Soft Lithography Process. Sensors, 2018, 18, 2011.	2.1	5

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109	Ion shuttling method for long-range shuttling of trapped ions in MEMS-fabricated ion traps. Japanese Journal of Applied Physics, 2021, 60, 027004.	0.8	5
110	Discrete-time variable structure control using recursive switching function. , 2000, , .		4
111	Monitoring system design for estimating the lateral tire force. , 2002, , .		4
112	A disposable MEMS-based micro-biopsy catheter for the minimally invasive tissue sampling. , 2005, , .		4
113	Sensor data fusion using fuzzy control for VOR-based vision tracking system. , 2010, , .		4
114	Drug-loaded cubic micro-chamber made of a biodegradable polymer for bacteria-based drug delivery. , 2013, , .		4
115	A low-power 33 pJ/conversion-step 12-bit SAR resistance-to-digital converter for microsensors. Microsystem Technologies, 2019, 25, 2093-2098.	1.2	4
116	164ÅnW Inverter-based capacitive readout IC for microaccelerometer. Microsystem Technologies, 2019, 25, 2035-2040.	1.2	4
117	A Four-Channel Low-Noise Readout IC for Air Flow Measurement Using Hot Wire Anemometer in 0.18 μ m CMOS Technology. Sensors, 2021, 21, 4694.	2.1	4
118	A microfabricated ion trap chip with a sloped loading slot to minimize exposing trapped ions to stray charges. Quantum Science and Technology, 2021, 6, 044004.	2.6	4
119	Review of High-resolution Retinal Prosthetic System for Vision Rehabilitation: Our Perspective Based on 18 Years of Research. Sensors and Materials, 2018, 30, 1393.	0.3	4
120	"AUTOTOOL", a PC-based object-oriented automotive powertrain simulation tool. , 0, , .		3
121	A novel fabrication process for ultra-sharp, high-aspect ratio nano tips using (111) single crystalline silicon. , 0, , .		3
122	A NOVEL Z-AXIS ACCELEROMETER WITH PERFECTLY-ALIGNED, FULLY-OFFSET VERTICAL COMBS FABRICATED USING THE EXTENDED SACRIFICIAL BULK MICROMACHINING PROCESS. International Journal of Computational Engineering Science, 2003, 04, 493-496.	0.1	3
123	Novel Valveless Micro Suction Pump Using a Solid Chemical Propellant. , 2007, , 310-313.		3
124	A motion-information-based vision-tracking system with a stereo camera on mobile robots. , 2011, , .		3
125	A non-iterative pose-graph optimization algorithm for fast 2D SLAM. , 2014, , .		3
126	A Neural Stimulator with Silicon Nanowire Photodetector for Artificial Retinal Prostheses. Journal of Computational and Theoretical Nanoscience, 2015, 12, 769-773.	0.4	3

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127	Bacteria-based microrobot for chemotaxis delivery. , 2015, , .		3
128	Simultaneous frequency and depth adaptation of notch filter for controlling damped vibrations. , 2017, , .		3
129	Engine throttle control using anticipatory band in the sliding phase plane. IEEE Transactions on Control Systems Technology, 1993, 1, 280-284.	3.2	2
130	A planar, x-axis, single-crystalline silicon gyroscope fabricated using the extended SBM process. , 0, , .		2
131	Three-dimensional silicon-micromachined microbiopsy tool and in-vivo experiment. , 0, , .		2
132	A Bandpass ΔΣ Interface IC for Sacrificial Bulk Micromachined Inertial Sensors. , 2006, , .		2
133	Nickel Micro-spike for Micro-scale Biopsy using LiGA Process. AIP Conference Proceedings, 2007, , .	0.3	2
134	Hot-Switching Test of Non-Contact Type MEMS Switch. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	2
135	Development of a MEMS-based Acceleration Sensing Module for Electronic Stability Program. , 0, , .		2
136	Stable Vision System for Indoor Moving Robot Using Encoder Information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 50-55.	0.4	2
137	Biodegradable polymer droplet for efficient drug delivery using flagellated bacteria. , 2010, , .		2
138	Vision tracking of a moving robot from a second moving robot using both relative and absolute position referencing methods. , 2011, , .		2
139	Pan/Tilt Camera Control for Vision Tracking System Based on the Robot Motion and Vision Information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3165-3170.	0.4	2
140	Fabrication of a Micro-Fluid Gathering Tool for the Gastrointestinal Juice Sampling Function of a Versatile Capsular Endoscope. Sensors, 2011, 11, 6978-6990.	2.1	2
141	A versatile biopotential acquisition analog front end IC with effective DC offset and ripple rejection. , 2014, , .		2
142	Analog front-end measuring biopotential signal with effective offset rejection loop. Bio-Medical Materials and Engineering, 2015, 26, S935-S941.	0.4	2
143	A BRIEF-Gist based efficient place recognition for indoor home service robots. , 2016, , .		2
144	Allometric scaling of insects and animals for biomimetic robot design considerations. , 2016, , .		2

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145	Silicon-nanowire field-effect transistors on a flexible substrate using top-down MEMS processes. , 2016, , .		2
146	Flexible field-effect transistors using top-down fabrication of (111)-silicon nanowires and wafer-level transfer process for neural prostheses. Microelectronic Engineering, 2017, 175, 23-29.	1.1	2
147	Application of discrete derivative method with a new frequency mapping technique for adaptive-notch-filter based vibration control in industrial servo systems. , 2017, , .		2
148	Simple and fast polydimethylsiloxane (PDMS) patterning using a cutting plotter and vinyl adhesives to achieve etching results. , 2017, 2017, 1885-1888.		2
149	Gain selection method for robustness enhancement in sliding mode control combined with decoupled disturbance compensator with unknown inertia in industrial servo systems. , 2017, , .		2
150	Matching Risk for Feature Selection in Visual SLAM. IFAC-PapersOnLine, 2018, 51, 144-147.	0.5	2
151	Deep Deterministic Policy Gradient-based Parameter Selection Method of Notch Filters for Suppressing Mechanical Resonance in Industrial Servo Systems. , 2019, , .		2
152	Application of Discretization Method with a Phase Compensation Technique for Adaptive-Notch-Filter Based Resonance Suppression in Industrial Servo Systems. , 2019, , .		2
153	A New Measurement Method for High Voltages Applied to an Ion Trap Generated by an RF Resonator. Sensors, 2021, 21, 1143.	2.1	2
154	Honeycomb-Shaped Deep-Trench Oxide Posts Combined with the SBM Technology for Micromachining Single-Crystal Silicon Without Using SOI. , 2001, , 1096-1099.		2
155	Observation of Hong-Ou-Mandel interference with scalable Yb ^{<sup>+</sup>} -photon interfaces. Optics Express, 2020, 28, 39727.	1.7	2
156	A Review of Nanotechnology for Highly Sensitive Photodetectors for Vision Sensors of Insect-like Robots. Sensors and Materials, 2015, , .	0.3	2
157	Biomimetic Multiaperture Imaging Systems: A Review. Sensors and Materials, 2015, , .	0.3	2
158	A 16-channel Neural Stimulator IC with DAC Sharing Scheme for Artificial Retinal Prostheses. Journal of Semiconductor Technology and Science, 2014, 14, 658-665.	0.1	2
159	A Novel z-axis Accelerometer Fabricated on a Single Silicon Substrate Using the Extended SBM Process. Journal of Sensor Science and Technology, 2004, 13, 101-109.	0.1	2
160	Extension of the boundary element method to systems with conductors and piece-wise constant dielectrics. Journal of Microelectromechanical Systems, 1996, 5, 221-227.	1.7	1
161	A New Micromachining Technology Using. , 1998, , .		1
162	An Application of Sliding Mode Controller to Nonminimum-Phase Nuclear Steam Generator Water Level Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 227-231.	0.4	1

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163	Two-chip implemented, wafer-level hermetic packaged accelerometer for tactical and inertial applications. , 0, , .		1
164	Lane assignment using a genetic algorithm in the automated highway systems. , 0, , .		1
165	A real-time multi-vehicle simulator for longitudinal controller design. Vehicle System Dynamics, 2006, 44, 369-386.	2.2	1
166	Estimation of angular velocity and acceleration by using 2 linear acceleration sensors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 549-553.	0.4	1
167	A MEMS-BASED MICRO-BIOPSY ACTUATOR FOR CAPSULAR ENDOSCOPE USING LIGA PROCESS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 20-24.	0.4	1
168	Wafer-level Hermetic Packaged Dual-axis Digital Microaccelerometer. , 2006, , .		1
169	Wafer-level Vacuum Packaged X and Y axis Gyroscope Using the Extended SBM Process for Ubiquitous Robot applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4418-4423.	0.4	1
170	Mobile Robot Vision Tracking System Using Dead Reckoning & Active Beacons. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9379-9384.	0.4	1
171	Surface energy modification method using x-ray synchrotron irradiation for controlling bacterial adhesion on biodegradable-polymer structures for bacteria-flagellated microrobots. , 2013, , .		1
172	Anisotropic bacterial adsorbed micro chambers by microfluidic trapping array. , 2013, , .		1
173	Current Stimulator IC with Adaptive Supply Regulator for Visual Prostheses. Journal of Biomedical Nanotechnology, 2013, 9, 992-997.	0.5	1
174	Pulse count modulation based biphasic current stimulator for retinal prosthesis and in vitro experiment using rd1 mouse. , 2014, 2014, 1711-4.		1
175	An inverse perspective mapping technique based on a virtual-vertical plane model for obstacle detection using mono camera. , 2015, , .		1
176	Frequency-Domain Design Method for Discrete-time Sliding Mode Control and Generalized Decoupled Disturbance Compensator with Industrial Servo Applications. IFAC-PapersOnLine, 2018, 51, 96-101.	0.5	1
177	Increased piezoresistive effects of silicon nanowires for effective biomimetic sensing. , 2018, , .		1
178	Error-Dynamics-Based Performance Shaping Methodology for Discrete-time Sliding Mode Control with Disturbance Observer. IFAC-PapersOnLine, 2019, 52, 460-464.	0.5	1
179	Decoupled error dynamics design for discrete-time sliding mode control in industrial servo systems under control input saturation and disturbance. Mechatronics, 2021, 77, 102581.	2.0	1
180	A Retinal Implant System Based on Flexible Polymer Microelectrode Array for Electrical Stimulation. , 2007, , 107-119.		1

#	ARTICLE	IF	CITATIONS
181	Bioinspired Piezoresistive Acceleration Sensor Using Artificial Filiform Sensillum Structure. <i>Sensors and Materials</i> , 2015, , .	0.3	1
182	A Robotic Pan and Tilt 3-D Target Tracking System by Data Fusion of Vision, Encoder, Accelerometer, and Gyroscope Measurements. <i>Lecture Notes in Computer Science</i> , 2012, , 676-685.	1.0	1
183	Trends in Biomimetic Vision Sensor Technology. <i>Journal of Institute of Control, Robotics and Systems</i> , 2015, 21, 1178-1184.	0.1	1
184	Decoupled Disturbance Compensator Based Discrete-time Stochastic Sliding Mode Control with Experimental Results. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 3688-3697.	1.6	1
185	Variable structure control of AC servomotors for performance improvement in CNC applications. , 0, , .		0
186	A large-force fluidic device micromachined in silicon. <i>Journal of Micromechanics and Microengineering</i> , 1998, 8, 195-199.	1.5	0
187	Robustness of discrete-time variable structure control to parametric uncertainties and exogenous disturbances. , 1998, , .		0
188	Real-time vehicle powertrain simulators for advanced highway systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1999, 32, 8798-8803.	0.4	0
189	Discrete-time variable structure control using modified recursive switching function. , 0, , .		0
190	Improving the Performance of Loop-Sensor-Based Traffic-Information System by (M+PLL) Circuit. <i>Vehicle System Dynamics</i> , 2002, 37, 377-394.	2.2	0
191	Fabrication of nickel electroplated cantilever-type MEMS probe card with through-hole interconnection. , 0, , .		0
192	EXTREMELY SHARP {111}-BOUND, SINGLE-CRYSTALLINE SILICON NANO TIPS. <i>International Journal of Computational Engineering Science</i> , 2003, 04, 327-330.	0.1	0
193	Integrated CE chip - concentration and high-resolution cyclic CE technology. , 0, , .		0
194	Channel flow network at low electric field with high flow resistance compensation pattern. , 0, , .		0
195	NEW VERTICAL ARRAY ACTUATORS USING EXTENDED SBM AND DEEP PN JUNCTION ISOLATION. <i>International Journal of Computational Engineering Science</i> , 2003, 04, 589-592.	0.1	0
196	Feedback Control of MEMS Gyroscope to Achieve the Tactical-Grade Specifications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 671-676.	0.4	0
197	MEMS-FABRICATED ACCELEROMETERS WITH FEEDBACK COMPENSATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 151-156.	0.4	0
198	MEMS-FABRICATED GYROSCOPES WITH FEEDBACK COMPENSATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 157-162.	0.4	0

#	ARTICLE	IF	CITATIONS
199	Fabrication of a novel 3-dimensional 8 x 8 electrode array for artificial retina. , 0, , .		0
200	A new electrical recording neural probe integrated with chemical stimulation. , 0, , .		0
201	Micro-Injection System for Localized Drug Delivery Using Embedded Solid Chemical Propellant. , 2007, , .		0
202	A MEMS-Based Micro Biopsy Actuator for the Capsular Endoscope Using LiGA Process. AIP Conference Proceedings, 2007, , .	0.3	0
203	A 37 ppm/°C Temperature Compensated CMOS ASIC with ± 16 V Supply Protection for Capacitive Microaccelerometers. , 2007, , .		0
204	Multi-channel capacitive readout IC for MEMS inertial sensors. , 2008, , .		0
205	A novel method for vision tracking with line of sight control, using a fuzzy logic controller and Euler angle orientation in the feedforward loop. , 2011, , .		0
206	Comparative study of the wafer bonding processes for MEMS devices. , 2011, , .		0
207	A VOR-based vision tracking system using fuzzy logic control. , 2011, , .		0
208	Several methods of sensor fusion for vision tracking in mobile robots. , 2012, , .		0
209	Comparison of corner detector and region detector for vision-based SLAM. , 2013, , .		0
210	Fabrication of biodegradable polymeric micro chambers encapsulated with pulverized drug for bacteria-based microrobots. , 2014, , .		0
211	Electrodeless, non-invasive stimulation of retinal neurons using time-varying magnetic fields. , 2015, , .		0
212	Electrical characterization of nanostructured 3D microelectrodes for retinal neuron stimulation. , 2015, , .		0
213	Afocal optical flow sensor for mobile robot odometry. , 2015, , .		0
214	A modified Cricket method for mobile robots using Zigbee and ultrasonic sensors. , 2015, , .		0
215	A new filtering method for discrete-time delay control. , 2015, , .		0
216	Bacteria-based microrobot for chemotaxis delivery of microcubics. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
217	A poly-(methyl methacrylate) (PMMA) retinal tack using x-ray lithography for applications in progressive observation using optical coherent tomography. <i>Microelectronic Engineering</i> , 2017, 175, 1-6.	1.1	0
218	Design of MEMS-based SiO ₂ Waveguides on Quartz Substrate for Evanescent Field-based Saturable Absorbers. , 2018, , .		0
219	Improving Overshoot Performance of Discrete-time Sliding Mode Control with Decoupled Disturbance Compensator for Ramp-Type Disturbance. , 2019, , .		0
220	A Feedback Control Method to Maintain the Amplitude of the RF Signal Applied to Ion Traps. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 837.	1.3	0
221	A Novel Bulk Micromachining Method in Gallium Arsenide. <i>Microsystems</i> , 2002, , 175-184.	0.3	0
222	Tactical Grade MEMS Gyroscopes Fabricated by the SBM Process. <i>Microsystems</i> , 2002, , 257-272.	0.3	0
223	An Arbitrary Waveform 16 Channel Neural Stimulator with Adaptive Supply Regulator in 0.35 μm HV CMOS for Visual Prosthesis. <i>Journal of Semiconductor Technology and Science</i> , 2013, 13, 79-86.	0.1	0
224	Integrated Microfluidic System Capable of Size-Specific Droplet Generation with Size-Dependent Droplet Separation. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 944-948.	0.5	0
225	Obstacle Detection Algorithm Using Forward-Viewing Mono Camera. <i>Journal of Institute of Control, Robotics and Systems</i> , 2015, 21, 858-862.	0.1	0
226	Biomimetic Gyroscope Integrated with Actuation Parts of a Robot Inspired by Insect Halteres. <i>Journal of Institute of Control, Robotics and Systems</i> , 2016, 22, 705-709.	0.1	0
227	Performance Simulation of Various Feature-Initialization Algorithms for Forward-Viewing Mono-Camera-Based SLAM. <i>Journal of Institute of Control, Robotics and Systems</i> , 2016, 22, 833-838.	0.1	0
228	Harsh-Environment Visual Odometry for Field Robots Using Data Fusion of Gyroscope & Magnetometer. <i>IFAC-PapersOnLine</i> , 2020, 53, 9566-9570.	0.5	0
229	Velocity Control of Servo Systems Under Control Input Saturation and Disturbance Using Robust Discrete-Time Sliding Mode Control Method. , 2020, , .		0
230	Outdoor Monocular Visual Odometry Enhancement Using Depth Map and Semantic Segmentation. , 2020, , .		0
231	Sine-Sweep Input Generation With Minimum Energy Restriction for Obtaining a Precise Frequency Response Function in Industrial Servo Systems. , 2021, , .		0