

# Andrei M Shkel

## List of Publications by Year in descending order

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179  
papers

4,244  
citations

126907

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56  
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docs citations

195  
times ranked

2002  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Pedestrian Indoor Navigation System Using Deep-Learning-Aided Cellular Signals and ZUPT-Aided Foot-Mounted IMUs. IEEE Sensors Journal, 2022, 22, 5188-5198.	4.7	15
2	A Reconstruction Filter for Saturated Accelerometer Signals Due to Insufficient FSR in Foot-Mounted Inertial Navigation System. IEEE Sensors Journal, 2022, 22, 695-706.	4.7	11
3	Effect of EAM on Capacitive Detection of Motion in MEMS Vibratory Gyroscopes. IEEE Sensors Journal, 2022, 22, 2271-2281.	4.7	6
4	On Correlation of Anisoelectricity, Angular Gain, and Temperature in Whole-Angle CVGs. IEEE Sensors Journal, 2022, 22, 4175-4185.	4.7	4
5	Direct Angle Measurement Using Dynamically-Amplified Gyroscopes. IEEE Sensors Journal, 2022, 22, 6336-6344.	4.7	0
6	UWB Sensor Placement for Foot-to-Foot Ranging in Dual-Foot-Mounted ZUPT-Aided INS. , 2022, 6, 1-4.		9
7	Stance Phase Detection for ZUPT-Aided INS Using Knee-Mounted IMU in Crawling Scenarios. , 2022, 6, 1-4.		6
8	Fused Quartz Dual-Shell Resonator Gyroscope. Journal of Microelectromechanical Systems, 2022, 31, 533-545.	2.5	11
9	PINDOC: Pedestrian Indoor Navigation System Integrating Deterministic, Opportunistic, and Cooperative Functionalities. IEEE Sensors Journal, 2022, 22, 14424-14435.	4.7	12
10	A Neural Network Approach to Mitigate Thermal-Induced Errors in ZUPT-aided INS. , 2022, , .		2
11	Effect of Geometry on Energy Losses In Fused Silica Dual-Shell Gyroscopes. , 2022, , .		1
12	Effect of Metallization on Fused Silica Dual-Shell Gyroscopes. , 2022, , .		5
13	Scenario-Dependent ZUPT-Aided Pedestrian Inertial Navigation with Sensor Fusion. Gyroscopy and Navigation, 2021, 12, 1-16.	1.3	13
14	Identification of Gain Mismatches in Control Electronics of Rate Integrating CVGs. , 2021, , .		12
15	Effect of EAM on Quality Factor and Noise in MEMS Vibratory Gyroscopes. , 2021, , .		3
16	Microfabricated Optically Pumped Gradiometer with Uniform Buffer Gases. , 2021, , .		1
17	Learning-Based Floor-Type Identification in the ZUPT-Aided Pedestrian Inertial Navigation. , 2021, 5, 1-4.		7
18	Performance of Quad Mass Gyroscope in the Angular Rate Mode. Micromachines, 2021, 12, 266.	2.9	10

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19	Optimization of photoresist plating mold fabrication for metal mask patterning. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 022601.	1.2	1
20	Quantification of Energy Dissipation Mechanisms in Toroidal Ring Gyroscope. Journal of Microelectromechanical Systems, 2021, 30, 193-202.	2.5	15
21	ZUPT-Aided INS Bypassing Stance Phase Detection by Using Foot-Instability-Based Adaptive Covariance. IEEE Sensors Journal, 2021, 21, 24338-24348.	4.7	11
22	Folded MEMS Platform Based on Polymeric Flexible Hinges for 3D Integration of Spatially-Distributed Sensors. Journal of Microelectromechanical Systems, 2021, , 1-8.	2.5	2
23	"Sugar-Cube" PLT: A Real-time Pedestrian Localization Testbed Utilizing Foot-mounted IMU/Barometer/Ultrasonic Sensors. , 2021, , .		2
24	Fabrication Process and Structural Characterization of Fused Silica-on-Silicon Toroidal Ring Gyroscope. , 2021, , .		4
25	Study on Estimation Errors in ZUPT-Aided Pedestrian Inertial Navigation Due to IMU Noises. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2280-2291.	4.7	33
26	Design Considerations for Micro-Glassblown Atomic Vapor Cells. Journal of Microelectromechanical Systems, 2020, 29, 25-35.	2.5	9
27	Mechanical trimming with focused ion beam for permanent tuning of MEMS dual-mass gyroscope. Sensors and Actuators A: Physical, 2020, 313, 112189.	4.1	9
28	A Review on ZUPT-Aided Pedestrian Inertial Navigation. , 2020, , .		7
29	A Zero Velocity Detector for Foot-mounted Inertial Navigation Systems Aided by Downward-facing Range Sensor. , 2020, , .		8
30	Dynamically Amplified Dual-mass Gyroscopes with In-situ Shock Survival Mechanism. , 2020, , .		2
31	Pedestrian Inertial Navigation System Augmented by Vision-Based Foot-to-foot Relative Position Measurements. , 2020, , .		22
32	3D Dual-Shell Micro-Resonators for Harsh Environments. , 2020, , .		9
33	Compensation of Systematic Errors in ZUPT-Aided Pedestrian Inertial Navigation. , 2020, , .		15
34	A Closed-Form Analytical Estimation of Vertical Displacement Error in Pedestrian Navigation. , 2020, , .		10
35	Quadrature-Induced Noise in Coriolis Vibratory Gyroscopes. , 2020, , .		6
36	Instabilities due to Electrostatic Tuning of Frequency-Split in Coriolis Vibratory Gyroscopes. , 2020, , .		4

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37	Design Space Exploration of Hemi-Toroidal Fused Quartz Shell Resonators. , 2019, , .		6
38	Characterization of Scale Factor Nonlinearities in Coriolis Vibratory Gyroscopes. , 2019, , .		7
39	Study on Mounting Position of IMU for Better Accuracy of ZUPT-Aided Pedestrian Inertial Navigation. , 2019, , .		25
40	Study on Mems Glassblown Cells for NMR Sensors. , 2019, , .		7
41	Retrospective Correction of Angular Gain by Virtual Carouseling in MEMS Gyroscopes. , 2019, , .		7
42	Amplitude Amplified Dual-Mass Gyroscope: Design Architecture and Noise Mitigation Strategies. , 2019, , .		7
43	Adaptive Threshold for Zero-Velocity Detector in ZUPT-Aided Pedestrian Inertial Navigation. , 2019, 3, 1-4.		45
44	Development of 3D Fused Quartz Hemi-Toroidal Shells for High-Q Resonators and Gyroscopes. Journal of Microelectromechanical Systems, 2019, 28, 954-964.	2.5	25
45	Directional Ranging for Enhanced Performance of Aided Pedestrian Inertial Navigation. , 2019, , .		14
46	Characterization of Energy Dissipation Mechanisms in Dual Foucault Pendulum Gyroscopes. , 2019, , .		4
47	A Laboratory Testbed for Self-Contained Navigation. , 2019, , .		15
48	Fused Quartz Dual Shell Resonator. , 2019, , .		8
49	Simulation-Based Approach in Design of 3D Micro-Glassblown Structures for Inertial and Optical Sensors. , 2019, , .		1
50	Learning-Based Calibration Decision System for Bio-Inertial Motion Application. , 2019, , .		4
51	MEMS Gyroscope With Concentrated Springs Suspensions Demonstrating Single Digit Frequency Split and Temperature Robustness. Journal of Microelectromechanical Systems, 2019, 28, 25-35.	2.5	33
52	Double-Sided Process for MEMS SOI Sensors With Deep Vertical Thru-Wafer Interconnects. Journal of Microelectromechanical Systems, 2018, 27, 239-249.	2.5	4
53	Electrostatic compensation of structural imperfections in dynamically amplified dual-mass gyroscope. Sensors and Actuators A: Physical, 2018, 275, 99-108.	4.1	32
54	High Quality Factor Mode Ordered Dual Foucault Pendulum Gyroscope. , 2018, , .		12

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55	Error Analysis of ZUPT-Aided Pedestrian Inertial Navigation. , 2018, , .		40
56	Analytical Closed-Form Estimation of Position Error on ZUPT-Augmented Pedestrian Inertial Navigation. , 2018, 2, 1-4.		16
57	Closed Loop Microfabricated Facial Reanimation Device Coupling EMG-Driven Facial Nerve Stimulation with a Chronically Implanted Multichannel Cuff Electrode. , 2018, 2018, 2206-2209.		3
58	MEMS Components for NMR Atomic Sensors. Journal of Microelectromechanical Systems, 2018, 27, 1148-1159.	2.5	35
59	Design and Fabrication of 3D Fused Quartz Shell Resonators for Broad Range of Frequencies and Increased Decay Time. , 2018, , .		8
60	Effect of fabrication imperfections on energy loss through mechanical mode coupling in MEMS. , 2018, , .		5
61	High quality factor MEMS gyroscope with whole angle mode of operation. , 2018, , .		22
62	Compensation of frequency split by directional lapping in fused quartz micro wineglass resonators. Journal of Micromechanics and Microengineering, 2018, 28, 095001.	2.6	24
63	On cross-talk between gyroscopes integrated on a folded MEMS IMU Cube. , 2017, , .		3
64	Origami-Like 3-D Folded MEMS Approach for Miniature Inertial Measurement Unit. Journal of Microelectromechanical Systems, 2017, 26, 1030-1039.	2.5	21
65	Frequency split reduction by directional lapping of fused quartz micro wineglass resonators. , 2017, , .		13
66	A comparative study of conventional single-mass and amplitude amplified dual-mass MEMS Vibratory Gyroscopes. , 2017, , .		7
67	Controlled capacitive gaps for electrostatic actuation and tuning of 3D fused quartz micro wineglass resonator gyroscope. , 2017, , .		20
68	Electrostatic compensation of structural imperfections in dynamically amplified dual-mass gyroscope. , 2017, , .		3
69	A status on components development for folded micro NMR gyro. , 2017, , .		10
70	Compact roll-pitch-yaw gyroscope implemented in wafer-level Epitaxial Silicon Encapsulation process. , 2017, , .		11
71	Study of environmental survivability and stability of Folded MEMS IMU. , 2017, , .		1
72	An Ultrahigh Vacuum Packaging Process Demonstrating Over 2 Million Q-Factor in MEMS Vibratory Gyroscopes. , 2017, 1, 1-4.		31

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73	Modeling the Effect of Imperfections in Glassblown Micro-Wineglass Fused Quartz Resonators. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	13
74	Predictive analytical model of fundamental frequency and imperfections in glassblown fused quartz hemi-toroidal 3D micro shells. , 2016, , .		4
75	On ordering of fundamental wineglass modes in toroidal ring gyroscope. , 2016, , .		7
76	Thru-Wafer Interconnects for Double-Sided (TWIDS) fabrication of MEMS. , 2016, , .		3
77	Study on surface roughness improvement of Fused Quartz after thermal and chemical post-processing. , 2016, , .		8
78	Vacuum sealed and getter activated MEMS Quad Mass Gyroscope demonstrating better than 1.2 million quality factor. , 2016, , .		23
79	Design, fabrication, and characterization of a micromachined glass-blown spherical resonator with insitu integrated silicon electrodes and ALD tungsten interior coating. , 2015, , .		6
80	Mode ordering in tuning fork structures with negative structural coupling for mitigation of common-mode g-sensitivity. , 2015, , .		8
81	Demonstration of 1 Million $Q$ -Factor on Microglassblown Wineglass Resonators With Out-of-Plane Electrostatic Transduction. Journal of Microelectromechanical Systems, 2015, 24, 29-37.	2.5	98
82	High Quality Factor Resonant MEMS Accelerometer With Continuous Thermal Compensation. IEEE Sensors Journal, 2015, 15, 5045-5052.	4.7	98
83	Origami-like folded mems for realization of TIMU: fabrication technology and initial demonstration. , 2015, , .		5
84	The concept of "collapsed electrodes" for glassblown spherical resonators demonstrating 200:1 aspect ratio gap definition. , 2015, , .		1
85	Minimal realization of dynamically balanced lumped mass WA gyroscope: dual foucault pendulum. , 2015, , .		15
86	Study of High Aspect Ratio NLD Plasma Etching and Postprocessing of Fused Silica and Borosilicate Glass. Journal of Microelectromechanical Systems, 2015, 24, 790-800.	2.5	16
87	MEMS Micro-glassblowing Paradigm for Wafer-level Fabrication of Fused Silica Wineglass Gyroscopes. Procedia Engineering, 2014, 87, 1489-1492.	1.2	24
88	Out-of-plane electrode architecture for fused silica micro-glassblown 3-D wineglass resonators. , 2014, , .		5
89	Electrostatic stabilization of thermal variation in quality factor using anchor loss modulation. , 2014, , .		5
90	Quality Factor Maximization Through Dynamic Balancing of Tuning Fork Resonator. IEEE Sensors Journal, 2014, 14, 2706-2714.	4.7	54

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91	Achieving Sub-Hz Frequency Symmetry in Micro-Glassblown Wineglass Resonators. Journal of Microelectromechanical Systems, 2014, 23, 30-38.	2.5	72
92	Optimization of orbital trajectory for frequency modulated gyroscope. , 2014, , .		5
93	Design and modeling of micro-glassblown inverted-wineglass structures. , 2014, , .		5
94	Improvement of side-wall roughness in deep glass etched MEMS vibratory sensors. , 2014, , .		2
95	Electrostatic and mechanical characterization of 3-D micro-wineglass resonators. Sensors and Actuators A: Physical, 2014, 215, 150-154.	4.1	23
96	Utilization of mechanical quadrature in silicon MEMS vibratory gyroscope to increase and expand the long term in-run bias stability. , 2014, , .		25
97	Comparative analysis of Nuclear Magnetic Resonance and Whole Angle Coriolis Vibratory Gyroscopes. , 2014, , .		1
98	Intrinsic stress of eutectic Au/Sn die attachment and effect on mode-matched MEMS gyroscopes. , 2014, , .		9
99	Glass-blown Pyrex resonator with compensating Ti coating for reduction of TCF. , 2014, , .		3
100	Effect of annealing on mechanical quality factor of fused quartz hemispherical resonator. , 2014, , .		26
101	Silicon accelerometer with differential Frequency Modulation and continuous self-calibration. , 2013, , .		31
102	What is MEMS Gyrocompassing? Comparative Analysis of Maytagging and Carouseling. Journal of Microelectromechanical Systems, 2013, 22, 1257-1266.	2.5	63
103	Compensation of drifts in high-Q MEMS gyroscopes using temperature self-sensing. Sensors and Actuators A: Physical, 2013, 201, 517-524.	4.1	125
104	High temperature micro-glassblowing process demonstrated on fused quartz and ULE TSG. Sensors and Actuators A: Physical, 2013, 201, 525-531.	4.1	65
105	Deep NLD plasma etching of Fused Silica and Borosilicate Glass. , 2013, , .		12
106	High and Moderate-Level Vacuum Packaging of Vibratory MEMS. International Symposium on Microelectronics, 2013, 2013, 000705-000710.	0.0	12
107	High-Q and wide dynamic range inertial MEMS for north-finding and tracking applications. , 2012, , .		10
108	Anti-phase mode isolation in tuning-fork MEMS using a lever coupling design. , 2012, , .		12

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109	Three-Dimensional Spherical Shell Resonator Gyroscope Fabricated Using Wafer-Scale Glassblowing. Journal of Microelectromechanical Systems, 2012, 21, 509-510.	2.5	33
110	Foucault pendulum on a chip: Rate integrating silicon MEMS gyroscope. Sensors and Actuators A: Physical, 2012, 177, 67-78.	4.1	59
111	High-Range Angular Rate Sensor Based on Mechanical Frequency Modulation. Journal of Microelectromechanical Systems, 2012, 21, 398-405.	2.5	78
112	Folded MEMS Pyramid Inertial Measurement Unit. IEEE Sensors Journal, 2011, 11, 2780-2789.	4.7	38
113	Electrostatic regulation of quality factor in non-ideal tuning fork MEMS. , 2011, , .		9
114	Demonstration of a wide dynamic range angular rate sensor based on frequency modulation. , 2011, , .		12
115	Microscale Glass-Blown Three-Dimensional Spherical Shell Resonators. Journal of Microelectromechanical Systems, 2011, 20, 691-701.	2.5	64
116	Low-Dissipation Silicon Tuning Fork Gyroscopes for Rate and Whole Angle Measurements. IEEE Sensors Journal, 2011, 11, 2763-2770.	4.7	67
117	Foucault pendulum on a chip: angle measuring silicon MEMS gyroscope. , 2011, , .		39
118	Frequency modulation based angular rate sensor. , 2011, , .		17
119	Precision navigation and timing enabled by microtechnology: Are we there yet?. , 2011, , .		11
120	Micromachined rate gyroscope architecture with ultra-high quality factor and improved mode ordering. Sensors and Actuators A: Physical, 2011, 165, 26-34.	4.1	72
121	Micromachined gyroscope concept allowing interchangeable operation in both robust and precision modes. Sensors and Actuators A: Physical, 2011, 165, 35-42.	4.1	14
122	Versatile vacuum packaging for experimental study of resonant MEMS. , 2010, , .		13
123	Chip-scale IMU using folded-mems approach. , 2010, , .		10
124	Ultra-high Q silicon gyroscopes with interchangeable rate and whole angle modes of operation. , 2010, , .		42
125	Design and demonstration of PECVD multilayer dielectric mirrors optimized for micromachined cavity angled sidewalls. Sensors and Actuators A: Physical, 2009, 155, 23-32.	4.1	12
126	Performance characterization of a new temperature-robust gain-bandwidth improved MEMS gyroscope operated in air. Sensors and Actuators A: Physical, 2009, 155, 16-22.	4.1	34



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127	Rubidium vapor cell with integrated Bragg reflectors for compact atomic MEMS. Sensors and Actuators A: Physical, 2009, 154, 295-303.	4.1	24
128	MEMS Vibratory Gyroscopes. MEMS Reference Shelf, 2009, , .	0.6	152
129	Environmentally Robust MEMS Vibratory Gyroscopes for Automotive Applications. IEEE Sensors Journal, 2009, 9, 1895-1906.	4.7	115
130	Glass-blown spherical microcells for chip-scale atomic devices. Sensors and Actuators A: Physical, 2008, 143, 175-180.	4.1	63
131	Snap-Action Bistable Micromechanisms Actuated by Nonlinear Resonance. Journal of Microelectromechanical Systems, 2008, 17, 1082-1093.	2.5	80
132	Effects of Operational Frequency Scaling in Multi-Degree of Freedom MEMS Gyroscopes. IEEE Sensors Journal, 2008, 8, 1672-1680.	4.7	33
133	Study of substrate energy dissipation mechanism in in-phase and anti-phase micromachined vibratory gyroscopes. , 2008, , .		8
134	A substrate energy dissipation mechanism in in-phase and anti-phase micromachined <i>z</i> -axis vibratory gyroscopes. Journal of Micromechanics and Microengineering, 2008, 18, 095016.	2.6	27
135	The effect of squeeze film constriction on bandwidth improvement in interferometric accelerometers. Journal of Micromechanics and Microengineering, 2008, 18, 055031.	2.6	6
136	Micromachined gyroscope design allowing for both robust wide-bandwidth and precision mode-matched operation. , 2008, , .		2
137	Anti-Phase Driven Rate Gyroscope with Multi-Degree of Freedom Sense Mode. , 2007, , .		15
138	Capacitive detection in resonant MEMS with arbitrary amplitude of motion. Journal of Micromechanics and Microengineering, 2007, 17, 1583-1592.	2.6	44
139	Parallel Plate Capacitive Detection of Large Amplitude Motion in MEMS. , 2007, , .		5
140	Single-mask fabrication of high-G piezoresistive accelerometers with extended temperature range. Journal of Micromechanics and Microengineering, 2007, 17, 730-736.	2.6	39
141	Glass Blowing on a Wafer Level. Journal of Microelectromechanical Systems, 2007, 16, 232-239.	2.5	98
142	The Performance Effects of Squeeze Film Stiffness on Non-Resonate Interferometric Inertial Sensors. , 2007, , 1035.		0
143	The Effect of High Order Non-Linearities on Sub-Harmonic Excitation With Parallel Plate Capacitive Actuators. , 2007, , .		2
144	A wavelength multiplexed interferometric inertial sensor network for nondestructive evaluation and distributed monitoring. , 2007, , .		1

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145	Resonant Pull-In Condition in Parallel-Plate Electrostatic Actuators. Journal of Microelectromechanical Systems, 2007, 16, 1044-1053.	2.5	64
146	Design and Demonstration of a Bulk Micromachined Fabry-Perot $\mu$ g-Resolution Accelerometer. IEEE Sensors Journal, 2007, 7, 1653-1662.	4.7	29
147	A Novel Capacitive Detection Scheme With Inherent Self-Calibration. Journal of Microelectromechanical Systems, 2007, 16, 1324-1333.	2.5	30
148	A Standalone Programmable Signal Processing Unit for Versatile Characterization of MEMS Gyroscopes. , 2007, , .		2
149	Multi-Degree of Freedom Tuning Fork Gyroscope Demonstrating Shock Rejection. , 2007, , .		22
150	Fluxless silicon-to-alumina bonding using electroplated Au-Sn structure at eutectic composition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 458, 101-107.	5.6	20
151	Structural Design Trade-Offs for MEMS Vibratory Rate Gyroscopes With 2-DOF Sense Modes. , 2007, , .		2
152	A Novel Capacitive Detection Scheme With Inherent Self-Calibration. , 2007, , .		0
153	Inherently Robust Micromachined Gyroscopes With 2-DOF Sense-Mode Oscillator. Journal of Microelectromechanical Systems, 2006, 15, 380-387.	2.5	81
154	Comparative analysis of distributed mass micromachined gyroscopes fabricated in SCS-SOI and EFAB. , 2006, , .		4
155	ON DEVELOPMENT OF TOTALLY IMPLANTABLE VESTIBULAR PROSTHESIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 12-19.	0.4	3
156	An electronic prosthesis mimicking the dynamic vestibular function. , 2006, 6174, 332.		1
157	Passive network of Fabry-Perot based sensors with wavelength multiplexing capabilities. , 2006, 6174, 356.		2
158	An Electronic Prosthesis Mimicking the Dynamic Vestibular Function. Audiology and Neuro-Otology, 2006, 11, 113-122.	1.3	52
159	Performance Trade-offs of an Interferometric Micro-g Resolution Accelerometer. , 2006, , .		2
160	Factors affecting the performance of micromachined sensors based on Fabry-Perot interferometry. Journal of Micromechanics and Microengineering, 2005, 15, 1770-1776.	2.6	26
161	Structurally decoupled micromachined gyroscopes with post-release capacitance enhancement. Journal of Micromechanics and Microengineering, 2005, 15, 1092-1101.	2.6	64
162	An approach for increasing drive-mode bandwidth of MEMS vibratory gyroscopes. Journal of Microelectromechanical Systems, 2005, 14, 520-528.	2.5	72

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163	Conceptual design and preliminary characterization of serial array system of high-resolution MEMS accelerometers with embedded optical detection. Smart Structures and Systems, 2005, 1, 63-82.	1.9	6
164	Structural design and experimental characterization of torsional micromachined gyroscopes with non-resonant drive mode. Journal of Micromechanics and Microengineering, 2004, 14, 15-25.	2.6	156
165	Nonresonant micromachined gyroscopes with structural mode-decoupling. IEEE Sensors Journal, 2003, 3, 497-506.	4.7	58
166	Structural and thermal modeling of az-axis rate integrating gyroscope. Journal of Micromechanics and Microengineering, 2003, 13, 229-237.	2.6	33
167	Experimental evaluation and comparative analysis of commercial variable-capacitance MEMS accelerometers. Journal of Micromechanics and Microengineering, 2003, 13, 634-645.	2.6	80
168	Active structural error suppression in MEMS vibratory rate integrating gyroscopes. IEEE Sensors Journal, 2003, 3, 595-606.	4.7	104
169	<title>Design concept and preliminary experimental demonstration of MEMS gyroscopes with 4-DOF master-slave architecture</title>. , 2002, 4700, 77.		0
170	<title>Identification of anisoelectricity for electrostatic trimming of rate-integrating gyroscopes</title>. , 2002, , .		8
171	Comparative study of 2-DOF micromirrors for precision light manipulation. , 2001, , .		4
172	Analysis of imperfections in a micromachined tunable-cavity interferometer. , 2001, , .		4
173	Microgyroscopes with dynamic disturbance rejection. , 2001, 4334, 107.		1
174	Classification of the Dubins set. Robotics and Autonomous Systems, 2001, 34, 179-202.	5.1	194
175	Micromachined gyroscopes: challenges, design solutions, and opportunities. , 2001, , .		22
176	Structural and thermal analysis of a MEMS angular gyroscope. , 2001, , .		3
177	Hazard and safety regions for paths with constrained curvature. Mathematical Methods in the Applied Sciences, 1998, 21, 1655-1679.	2.3	1
178	Incorporating body dynamics into sensor-based motion planning: the maximum turn strategy. IEEE Transactions on Automation Science and Engineering, 1997, 13, 873-880.	2.3	15
179	A Hybrid Barometric/Ultrasonic Altimeter for Aiding ZUPT-based Inertial Pedestrian Navigation Systems. , 0, , .		8