

Andre Bossche

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	On-Chip Contactless Four-Electrode Conductivity Detection for Capillary Electrophoresis Devices. <i>Analytical Chemistry</i> , 2003, 75, 306-312.	6.5	99
2	Effects of size and defects on the elasticity of silicon nanocantilevers. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 064012.	2.6	66
3	Quality factor of torsional resonators in the low-pressure region. <i>Sensors and Actuators A: Physical</i> , 1996, 53, 299-303.	4.1	64
4	On the size-dependent elasticity of silicon nanocantilevers: impact of defects. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 072001.	2.8	52
5	Size-dependent trajectories of DNA macromolecules due to insulative dielectrophoresis in submicrometer-deep fluidic channels. <i>Biomicrofluidics</i> , 2008, 2, 24103.	2.4	48
6	Effects of size and surface on the elasticity of silicon nanoplates: Molecular dynamics and semi-continuum approaches. <i>Thin Solid Films</i> , 2011, 520, 391-399.	1.8	43
7	Sensitive and Reversible Detection of Methanol and Water Vapor by In Situ Electrochemically Grown CuBTC MOFs on Interdigitated Electrodes. <i>Small</i> , 2017, 13, 1604150.	10.0	31
8	Computer-aided fault tree synthesis I (system modeling and causal trees). <i>Reliability Engineering and System Safety</i> , 1991, 32, 217-241.	8.9	25
9	Integrated resonant magnetic-field sensor. <i>Sensors and Actuators A: Physical</i> , 1994, 41, 66-69.	4.1	23
10	Application of electrostatic pull-in instability on sensing adsorbate stiffness in nanomechanical resonators. <i>Thin Solid Films</i> , 2010, 518, 5018-5021.	1.8	19
11	Computer-aided fault tree synthesis II. Fault tree construction. <i>Reliability Engineering and System Safety</i> , 1991, 33, 1-21.	8.9	14
12	A wearable fluidic collection patch and ion chromatography method for sweat electrolyte monitoring during exercise. <i>Analytical Methods</i> , 2020, 12, 5885-5892.	2.7	14
13	A Low-Power MEMS IDE Capacitor with Integrated Microhotplate: Application as Methanol Sensor using a Metal-Organic Framework Coating as Affinity Layer. <i>Sensors</i> , 2019, 19, 888.	3.8	11
14	Electroosmotic flow analysis of a branched U-turn nanofluidic device. <i>Lab on A Chip</i> , 2005, 5, 1067.	6.0	10
15	Low-Cost Wearable Fluidic Sweat Collection Patch for Continuous Analyte Monitoring and Offline Analysis. <i>Analytical Chemistry</i> , 2022, 94, 6893-6901.	6.5	10
16	Application of the integrated reliability analysis system (IRAS). <i>Reliability Engineering and System Safety</i> , 1999, 64, 99-107.	8.9	8
17	Some considerations of effects-induced errors in resonant cantilevers with the laser deflection method. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 105027.	2.6	8
18	Temperature sensitivity of silicon cantilevers'™ elasticity with the electrostatic pull-in instability. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 220-224.	4.1	7

#	ARTICLE	IF	CITATIONS
19	Smart sensor tights: Movement tracking of the lower limbs in football. <i>Wearable Technologies</i> , 2021, 2, .	3.1	7
20	Computer-aided fault tree synthesis III: Real-time fault location. <i>Reliability Engineering and System Safety</i> , 1991, 33, 161-176.	8.9	5
21	Miniaturized analytical assays in biotechnology. <i>Biotechnology Advances</i> , 2003, 21, 431-444.	11.7	5
22	Design of a single-crystal silicon-based micromechanical resonator using finite element simulations. <i>Sensors and Actuators A: Physical</i> , 1995, 47, 623-627.	4.1	4
23	Aluminium pressurization contacts for glass-to-silicon anodic bonding. <i>Sensors and Actuators A: Physical</i> , 1996, 52, 151-155.	4.1	4
24	Low-cost reliable transfer mold sensor packaging concept. , 1997, 3224, 153.		4
25	Finite element analysis of the open window plastic package for optical sensors. <i>Sensors and Actuators A: Physical</i> , 1999, 76, 386-394.	4.1	2
26	Optical detection of electrokinetically manipulated single molecules in a nanofluidic chip. , 2005, , .		2
27	Quantitative analysis and decoupling of mass and stiffness effects in cantilever mass sensors. , 2010, , .		1
28	Transfer Mould Packaging for Sensors. , 2001, , 53-58.		0
29	A New Approach for Monitoring Sweat Ammonia Levels Using a Ventilated Capsule. , 2021, 10, .		0