Top 25 Hottest Articles
Engineering > Sensors and Actuators A: Physical
October - December 2007

1. A magnetoelastic microtransformer-based microstrain gauge
   Amor, A.B.; Budde, T.; Gatzen, H.H.

2. Squeeze film air damping in MEMS - Review article
   Bao, M.; Yang, H.

3. Characterization of sub-stoichiometric tungsten trioxide (WO_{3-x}) using impedance spectroscopy
   Ramzan, M.; Brydson, R.

4. Nano electromechanical sensors based on carbon nanotubes - Review article
   Hierold, C.; Jungen, A.; Stampler, C.; Helbing, T.

5. Review of MEMS-based drug delivery and dosing systems - Review article
   Tsai, N.C.; Sue, C.Y.

6. Integrated sensors, MEMS, and microsystems: Reflections on a fantastic voyage - Review article
   Wise, K.D.

7. Trends and frontiers of MEMS - Review article
   Ko, W.H.
8. MEMS power generator with transverse mode thin film PZT
Jeon, Y.B.; Sood, R.; Jeong, J.H.; Kim, S.G.
Cited by Scopus (24)

9. Periodically structured ZnO thin films for optical gas sensor application
Sensors and Actuators A: Physical, Volume 140, Issue 1, 1 October 2007, Pages 19-23
Dikovska, A.O.; Atanasov, P.A.; Tonchev, S.; Ferreira, J.; Escoubas, L.

10. Carbon nanotube-based transparent thin film acoustic actuators and sensors
Yu, X.; Rajamani, R.; Steison, K.A.; Cui, T.
Cited by Scopus (4)

11. Low cost thin film based piezoresistive MEMS tactile sensor
Wisitsoraat, A.; Patthanasetakul, V.; Lomas, T.; Tuantranont, A.

12. A novel polydimethylsiloxane microfluidic system including thermopneumatic-actuated micropump and Paraffin-actuated
Sensors and Actuators A: Physical, Volume 139, Issue 1-2, 1 September 2007, Pages 216-220
Yoo, J.C.; Choi, Y.J.; Kang, C.J.; Kim, Y.S.

13. SU-8 MEMS Fabry-Perot pressure sensor
Hill, G.C.; Melamud, R.; Declercq, F.E.; Davenport, A.A.; Chan, I.H.; Hartwell, P.G.; Pruitt, B.L.

14. Doped and dedoped polyaniline nanofiber based conductometric hydrogen gas sensors
Cited by Scopus (2)

15. Synthesis and characterization of patterned and nonpatterned copper and nickel nanowire arrays on silicon substrate
Sharma, G.; Kripesh, V.; Sim, M.C.; Sow, C.H.

16. Olfactory and taste cell sensor and its applications in biomedicine
Wang, P.; Liu, Q.; Xu, Y.; Cai, H.; Li, Y.

17. Mechanical properties of ZnO nanowires
Desai, A.V.; Haque, M.A.
Cited by Scopus (4)

18. Fabrication of multilayer passive and active electric components on polymer using inkjet printing and low temperature
Ko, S.H.; Chung, J.; Pan, H.; Grigoropoulos, C.P.; Poulikakos, D.
Cited by Scopus (4)

19. Wireless flexible capacitive sensor based on ultra-flexible epoxy resin for strain measurement of automobile tires
Sensors and Actuators A: Physical, Volume 140, Issue 1, 1 October 2007, Pages 32-42
Matsuzaki, R.; Todoroki, A.

20. Functionalized nano interdigitated electrodes arrays on polymer with integrated microfluidics for direct bio-affinity se
Zou, Z.; Kai, J.; Rust, M.J.; Han, J.; Ahn, C.H.
Cited by Scopus (1)

21. Flapping wings with PVDF sensors to modify the aerodynamic forces of a micro aerial vehicle
Sensors and Actuators A: Physical, Volume 139, Issue 1-2, 1 September 2007, Pages 95-103
Yang, L.J.; Hsu, C.K.; Ho, J.Y.; Feng, C.K.

22. Novel sensor-actuator device for early detection of fire
Sensors and Actuators A: Physical, Volume 141, Issue 1, 1 January 2008, Pages 89-96
Zhuiykov, S.

23. A novel constant delivery thermopneumatic micropump using surface tensions
Jun, D.H.; Sim, W.Y.; Yang, S.S.

24. TiNi-based thin films in MEMS applications: a review
Fu, Y.; Du, H.; Huang, W.; Zhang, S.; Hu, M.
Cited by Scopus (72)

25. Applying autonomous sensor systems in logistics-Combining sensor networks, RFID and software agents