

Ronald A Coutu Jr, Pe

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11821180/publications.pdf>

Version: 2024-02-01

30
papers

454
citations

1307594

7
h-index

839539

18
g-index

31
all docs

31
docs citations

31
times ranked

496
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A review of micro-contact physics for microelectromechanical systems (MEMS) metal contact switches. Journal of Micromechanics and Microengineering, 2013, 23, 103001. | 2.6 | 104 |
| 2 | Selecting metal alloy electric contact materials for MEMS switches. Journal of Micromechanics and Microengineering, 2004, 14, 1157-1164. | 2.6 | 97 |
| 3 | Characterization of metal and metal alloy films as contact materials in MEMS switches. Journal of Micromechanics and Microengineering, 2006, 16, 557-563. | 2.6 | 81 |
| 4 | Carbon Monoxide Sensing Technologies for Next-Generation Cyber-Physical Systems. Sensors, 2018, 18, 3443. | 3.8 | 68 |
| 5 | Improved Sensitivity MEMS Cantilever Sensor for Terahertz Photoacoustic Spectroscopy. Sensors, 2016, 16, 251. | 3.8 | 18 |
| 6 | Terahertz Photoacoustic Spectroscopy Using an MEMS Cantilever Sensor. Journal of Microelectromechanical Systems, 2015, 24, 216-223. | 2.5 | 13 |
| 7 | Reliability testing of AlGaIn/GaN HEMTs under multiple stressors. , 2011, , . | | 11 |
| 8 | Improving Gold/Gold Microcontact Performance and Reliability Under Low-Frequency AC Through Circuit Loading. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 345-353. | 2.5 | 10 |
| 9 | Investigation of the Surface Adhesion Phenomena and Mechanism of Gold-Plated Contacts at Superlow Making/Breaking Speed. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 771-778. | 2.5 | 8 |
| 10 | Electrostatically Tunable Meta-Atoms Integrated With In Situ Fabricated MEMS Cantilever Beam Arrays. Journal of Microelectromechanical Systems, 2011, 20, 1366-1371. | 2.5 | 6 |
| 11 | Novel Test Fixture for Characterizing MEMS Switch Microcontact Reliability and Performance. Sensors, 2019, 19, 579. | 3.8 | 6 |
| 12 | Standardized testing of non-standard photovoltaic pavement surfaces. , 2016, , . | | 5 |
| 13 | A Very Robust AlGaIn/GaN HEMT Technology to High Forward Gate Bias and Current. Active and Passive Electronic Components, 2012, 2012, 1-4. | 0.3 | 4 |
| 14 | Using Cross-Linked SU-8 to Flip-Chip Bond, Assemble, and Package MEMS Devices. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 301-306. | 2.5 | 4 |
| 15 | Thermal Tuning of MEMS Buckled Membrane Actuator Stiffness. Procedia Engineering, 2014, 87, 1382-1385. | 1.2 | 3 |
| 16 | Micromechanical Structure With Stable Linear Positive And Negative Stiffness. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 137-143. | 0.5 | 3 |
| 17 | Using Inductance as a Tuning Parameter for RF Meta-atoms. Nano-Micro Letters, 2012, 4, 103-109. | 27.0 | 2 |
| 18 | An efficient cost function for the optimization of an n -layered isotropic cloaked cylinder. Journal Physics D: Applied Physics, 2013, 46, 335101. | 2.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Engineered surfaces to control secondary electron emission for multipactor suppression. , 2016, , . | | 2 |
| 20 | Observation and Understanding of the Initial Unstable Electrical Contact Behaviors. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 1272-1279. | 2.5 | 2 |
| 21 | A New Look at Azimuthal Wave Propagation Constants of an n-Layered Dielectric Coated PEC Cylinder. IEEE Transactions on Antennas and Propagation, 2013, 61, 2727-2734. | 5.1 | 1 |
| 22 | A micro-cantilever based photoacoustic detector of Terahertz radiation for chemical sensing. , 2013, , . | | 1 |
| 23 | Germanium Telluride (GeTe) phase change resistors for reconfigurable circuit applications. , 2015, , . | | 1 |
| 24 | Micro-contact performance and reliability under low frequency, low amplitude, alternating current (AC) test conditions. , 2015, , . | | 1 |
| 25 | Critical Experiments Leading to a Novel Test Fixture Assembly for Microcontact Reliability and Performance Research. , 2019, , . | | 1 |
| 26 | Mechanical logic using MEMS. , 2015, , . | | 0 |
| 27 | Tunable pressure sensing applications of a MEMS buckled membrane. , 2015, , . | | 0 |
| 28 | Designing, fabricating and testing multi-junction silicon solar cells. , 2015, , . | | 0 |
| 29 | Enhancing the thermal performance of temporary fabric structures for the advanced energy efficient shelter system. , 2016, , . | | 0 |
| 30 | Improved grayscale lithography. , 2016, , . | | 0 |