

ISSN 2161-122X Vol. 1, No. 3, September 2011



Scientific
Research

Journal of Sensor Technology

ISSN 2161-122X



www.scirp.org/journal/jst

Journal Editorial Board

ISSN: 2161-122X (Print), 2161-1238 (Online)

<http://www.scirp.org/journal/jst>

Editorial Board

Dr. Bruno Andò	The University of Catania, Italy
Prof. Aytunç Ates	Yildirim Beyazıt University, Turkey
Dr. Nada Farouk Atta	University of Cairo, Egypt
Prof. Mohamad M. Ayad	Egypt-Japan University of Science and Technology, Egypt
Prof. Saad Belkhiat	Sétif University, Algeria
Dr. Rajmohan Bhandari	Blackrock Microsystems, USA
Dr. Paolo Bondavalli	Nanomaterials Group, Italy
Prof. İsmail Hakki Boyacı	Hacettepe University, Turkey
Dr. Antonio M. Calabro	Italian Aerospace Research Center, Italy
Prof. Luc Chassagne	University of Versailles, France
Dr. Zheng Chen	University of Virginia, USA
Dr. Annalisa Convertino	IMM Laboratory, Italy
Dr. Asok. Kr. Dikshit	Central Glass and Ceramic Research Institute, India
Prof. Vinod Kumar Gupta	Indian Institute of Technology, India
Prof. Chang-Sik Ha	Pusan National University, Korea (South)
Dr. Gong Hao	National University of Singapore, Singapore
Prof. Kamaruzaman Jusoff	Universiti Putra Malaysia, Malaysia
Dr. Dae-Sik Lee	Electronics and Telecommunications Research Institute, Korea (North)
Dr. Weihua Li	University of Wollongong, Australia
Prof. Xinxin Li	Chinese Academy of Sciences, China
Dr. Qingjun Liu	Zhejiang University, China
Prof. Xiaobing Luo	Huazhong University of Science and Technology, China
Dr. Shahabuddin Memon	University of Sindh, Pakistan
Dr. Graça M. H. Minas	University of Minho, Portugal
Dr. Sandeep Negi	Company of Blackrock Microsystems, USA
Dr. Milka Toteva Neshkova	The Bulgarian Academy of Sciences, Bulgaria
Prof. Yiqing Ni	The Hong Kong Polytechnic University, Hong Kong (China)
Prof. Rajiv Prakash	Banaras Hindu University, India
Prof. Ashok Kumar Singh	Indian Institute of Technology Roorkee, India
Dr. Dongning Wang	Hong Kong Polytechnic University, Hong Kong (China)
Dr. Wen Wang	Chinese Academy of Sciences, China
Dr. Xuemin Wang	China Academy of Engineering Physics, China
Prof. Yong Yan	University of Kent, UK
Dr. Zhengjun Zha	National University of Singapore, Singapore
Dr. Wenming Zhang	Shanghai Jiaotong University, China
Prof. Yong Zhang	Xi'an Jiaotong University, China
Prof. Yong Zhao	Northeastern University, China
Prof. Jian Zhu	Xi'an Jiaotong University, China

Editorial Assistant

Jing Guo

Scientific Research Publishing, USA E-mail: jst@scirp.org

TABLE OF CONTENTS

Volume 1 Number 3

September 2011

Precision Active Bridge Circuit for Measuring Incremental Resistance with ANN Compensation of Excitation Voltage Variation

S. A. Khan, T. Islam.....57

Non-Contact Stress Measurement during Tensile Testing Using an Emat for SH₀-Plate Wave and Lamb Wave

R. Murayama.....65

Direction of Arrival Estimation and Localization Using Acoustic Sensor Arrays

V. Kunin, M. Turqueti, J. Saniie, E. Oruklu.....71

The Effect of Magnetic Field-Tuned Resonance on the Capacitance of Laminate Composites

L. J. Yang, J. G. Tang, W. Wang, X. B. Luo, N. Zhang.....81

ZnO: PVP Quantum Dot Ethanol Sensor

M. Choudhury, S. S. Nath, R. K. Nath.....86

Journal of Sensor Technology (JST)

Journal Information

SUBSCRIPTIONS

The *Journal of Sensor Technology* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright©2011 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: jst@scirp.org



Journal of Sensor Technology (JST)

ISSN 2161-122X (Print) ISSN 2161-1238 (Online)

<http://www.scirp.org/journal/jst>

Journal of Sensor Technology should be the international journal devoted to research on sensor technologies including sensor design, implementation, characterizations and application oriented technical development. It is an interdisciplinary journal serving professionals with an interest in the exploitation of biological materials and designs in novel sensor diagnostic, supervision (or surveillance), and electronic devices including sensors, DNA chips, electronic noses, lab-on-a-chip, etc. Research of physical effects, measurement, theory, modeling and simulation of sensors, is welcome.

Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Arrayed Sensors
- Flow Sensors
- Interferometry Based Sensors
- MEMS Pressure Sensors
- Micro Accelerometers Mems Gyroscopes
- Microelectromechanical Systems (MEMS)
- Multi-Sensor Data Fusion
- Nano-Photonic Based Sensors
- Optical Fiber Based Sensors
- Sensor Fabrication and Packaging Techniques
- Sensor Networks
- Sensor Signal Processing
- Surface Enhanced Raman Scattering (SERS) Sensors
- Surface Plasmon Based Sensors
- Ultrasonic Transducers

We are also interested in: 1) Short reports — 2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book reviews — Comments and critiques.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

[Http://www.scirp.org/journal/jst](http://www.scirp.org/journal/jst)

E-mail: jst@scirp.org