



## Lucian PISLARU-DANESCU

<https://www.webofscience.com/wos/author/rid/B-2894-2013>

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### Current affiliation:

- National Institute for Research and Development in Electrical Engineering ICPE-CA (INCDIE ICPE-CA) Bucharest, Romania

### Publication Metrics

For manuscripts published from date range August 2006 - August 2025

**7**

H-index

**194**

Sum of Times Cited

**63**

Total Publications

**48**

Web of Science Core Collection Publications

**1**

Sum of Times Cited by Patents

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For all time

**7**

H-index

**194**

Sum of Times Cited

**76**

Total Publications

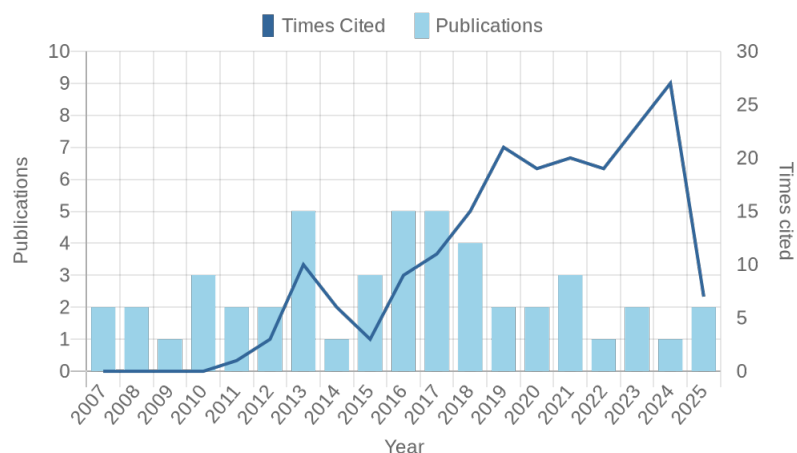
**48**

Web of Science Core Collection Publications

**1**

Sum of Times Cited by Patents

### Publication Impact Over Time



## Publishing Summary

For manuscripts published from date range August 2006 - August 2025

(7) International Symposium on Adv...	(6) Proceedings of the International ...
(5) EEA - Electrotehnica, Electronica...	(4) International Conference and Ex...
(3) Optoelectronics and Advanced M...	(3) Micromachines
(2) Electrotehnica, Electronica, Auto...	(2) Metalurgia International
(2) Sensors	(2) International Conference on Appl...
(2) International Aegean Conference...	(2) IEEE Transactions on Magnetics
(2) PROCEEDINGS OF THE 13TH INT...	(2) Actuators
(1) Sensor Letters	(1) International Universities Power ...
(1) International Journal of Heat and...	(1) ESTC: ELECTRONICS SYSTEM-INT...
(1) Electrical Engineering	(1) PROCEEDINGS OF THE INTERNAT...
(1) Rev Roumaine des Sciences Tech...	(1) International Conference on Elec...
(1) UPB Scientific Bulletin, Series C: ...	(1) IEEE Transactions on Industry Ap...
(1) Environmental Engineering and ...	(1) International Semiconductor Con...
(1) Applied Sciences	(1) Electronic Materials Letters
(1) Polymer Thin Films	(1) CONSTRUCTAL LAW & SECOND L...
(1) International Conference on Opti...	(1) International Multidisciplinary Sc...
(1) Proceedings of the Romanian Ac...	

## Publications

For manuscripts published from date range August 2006 - August 2025 (62)

Times Cited  
(All time)

<p>Hybrid Piezo-Electromagnetic Device Designed to Harvest the Vibrations of the Human Body</p> <p>Authors (3): Zarnescu, George-Claudiu; Pislaru-Danescu, Lucian; Stamatin, Ioan</p> <p>Published: May 2025 in Micromachines</p> <p>DOI: 10.3390/MI16060675</p> <p>Accession Number: WOS:001517570400001</p>	0
<p>Electrochemical Sensor for Hydrogen Leakage Detection at Room Temperature</p> <p>Authors (7): Rimbu, Gimi Aurelian; Pislaru-Danescu, Lucian ... Telipan, Gabriela</p> <p>Published: Jan 2025 in Sensors</p> <p>DOI: 10.3390/S25010264</p> <p>Accession Number: WOS:001393903100001</p>	1
<p>Influence of Hydration and Temperature on the NaXCO<sub>2</sub> Based Transducer Voltage</p> <p>Authors (4): Zarnescu, George-Claudiu; Lavasani, Esmaeil Jalali ... Stamatin, Ioan</p> <p>Published: Nov 2024 in Micromachines</p> <p>DOI: 10.3390/MI15111334</p> <p>Accession Number: WOS:001365632300001</p>	0
<p>Microactuation of Magnetic Nanofluid Enabled by a Pulsatory Rotating Magnetic Field</p> <p>Authors (5): Pislaru-Danescu, Lucian; Zarnescu, George-Claudiu ... Telipan, Gabriela</p> <p>Published: May 2023 in Actuators</p> <p>DOI: 10.3390/ACT12050210</p> <p>Accession Number: WOS:000995223000001</p>	1
<p>Modular Electromagnetic Transducer for Optimized Energy Transfer via Electric and/or Magnetic Fields</p> <p>Authors (3): Zarnescu, George-Claudiu; Pislaru-Danescu, Lucian; Tiliakos, Athanasios</p> <p>Published: Feb 2023 in Sensors</p> <p>DOI: 10.3390/S23031291</p> <p>Accession Number: WOS:000929554100001</p>	0
<p>Design and Manufacturing of Equipment for Investigation of Low Frequency Bioimpedance</p> <p>Authors (4): Pislaru-Danescu, Lucian; Zarnescu, George-Claudiu ... Stoica, Victor</p> <p>Published: Nov 2022 in Micromachines</p> <p>DOI: 10.3390/MI13111858</p> <p>Accession Number: WOS:000883886600001</p>	4
<p>New Type of Linear Magnetostrictive Motor Designed for Outer Space Applications, from Concept to End-Product</p> <p>Authors (8): Pislaru-Danescu, Lucian; Morega, Alexandru-Mihail ... Patroi, Eros-Alexandru</p>	2

**A Comparative Study of Polypyrrole and Ag/Polypyrrole Hybrid Nanocomposites as Sensitive Material Used for New Dry Polarizable Bioimpedance Sensors**

6

Authors (5): Telipan, Gabriela; Pislaru-Danescu, Lucian ... Marinescu, Virgil  
Published: May 2021 in Applied Sciences  
DOI: 10.3390/APP11094168  
Accession Number: WOS:000649953300001

**Signal Conditioning provided by Sensitive Elements of Electric Bioimpedance Sensors**

Not indexed in  
the Web of  
Science

Authors (3): Lucian PÎSLARU-DĂNESCU; Victor STOICA; Gabriela TELIPAN  
Published: Feb 2021 in Electrotehnica, Electronica, Automatica  
DOI: 10.46904/EEA.21.69.1.1108007

**PLANAR TRANSFORMER FOR ENERGY HARVESTING APPLICATIONS**

0

Authors (4): Veli, Yelda; Morega, Alexandru M. ... Morega, Mihaela  
Published: 2021 in UPB Scientific Bulletin, Series C: Electrical Engineering and Computer Science  
Accession Number: WOS:000741473700024

**Distribution of Magnetic Field and Exposure Level Around of Overhead Power Lines**

Not indexed in  
the Web of  
Science

Authors (2): Eleonora DARIE; Lucian PÎSLARU-DĂNESCU  
Published: Nov 2020 in Electrotehnica, Electronica, Automatica  
DOI: 10.46904/EEA.20.68.4.1108008

**Ag/polypyrrole composites for polarizable dry microsensor used in bioimpedance measurement**

0

Authors (4): Telipan, G.; Pislaru-Danescu, L. ... Marinescu, V  
Published: Oct 2020 in International Semiconductor Conference (CAS)  
DOI: 10.1109/CAS50358.2020.9267982  
Accession Number: WOS:000637264600005

**NUMERICAL SIMULATION ANALYSIS OF A LINEAR MAGNETOSTRICTIVE ACTUATOR**

1

Authors (4): Veli, Yelda; Morega, Alexandru-Mihail ... Morega, Mihaela  
Published: Jul 2020 in Rev Roumaine des Sciences Techniques-Series Electrotechnique et Energetique  
Accession Number: WOS:000608261900002

**Prototyping a Proportionally Electromagnetic Actuator with Wide Displacement of its Mobile Part**

1

Authors (4): Pislaru-Danescu, L.; Morega, A. M. ... Dobre, A. A.  
Published: Mar 2019 in Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE)  
DOI: 10.1109/ATEE.2019.8724916  
Accession Number: WOS:000475904500073

<p><b>The Design of the Secondary Electrical Circuit of a Flyback Transformer with Hybrid Magnetic Core</b></p> <p>Authors (5): Veli, Yelda; Morega, Alexandru M. ... Telipan, Gabriela</p> <p>Published: Mar 2019 in Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE)</p> <p>DOI: 10.1109/ATEE.2019.8724983</p> <p>Accession Number: WOS:000475904500138</p>	0
<p><b>The power quality in an office building environment</b></p> <p>Authors (3): Darie, E.; Pîslaru-Dănescu, L.; El-Leathey, L.-A.</p> <p>Published: 2019 in EEA - Electrotehnica, Electronica, Automatica</p>	Not indexed in the Web of Science
<p><b>Magnetic field distribution from a transformer substation of 1600 kVA, 20/0.4 kV and the occupational exposure implications</b></p> <p>Authors (2): Darie, E.; Pîslaru-Dănescu, L.</p> <p>Published: 2019 in EEA - Electrotehnica, Electronica, Automatica</p>	Not indexed in the Web of Science
<p><b>Numerical Modeling of a Flyback Converter with Different Magnetic Media, for Micro-Power Controllers</b></p> <p>Authors (4): Veli, Yelda; Morega, Alexandru M. ... Morega, Mihaela</p> <p>Published: Oct 2018 in International Conference on Applied and Theoretical Electricity (ICATE)</p> <p>DOI: 10.1109/ICATE.2018.8551391</p> <p>Accession Number: WOS:000487278600024</p>	0
<p><b>Miniature Planar Spiral Transformer With Hybrid, Ferrite, and Magnetic Nanofluid Core</b></p> <p>Authors (9): Pislaru-Danescu, Lucian; Morega, Alexandru M. ... Popa, Marius</p> <p>Published: Oct 2018 in IEEE Transactions on Magnetics</p> <p>DOI: 10.1109/TMAG.2018.2864162</p> <p>Accession Number: WOS:000445253900001</p>	9
<p><b>Synthesis and Characterization of Antireflective ZnO Nanoparticles Coatings Used for Energy Improving Efficiency of Silicone Solar Cells</b></p> <p>Authors (6): Pislaru-Danescu, Lucian; Chitanu, Elena ... Sbarcea, Beatrice-Gabriela</p> <p>Published: May 2018 in Electronic Materials Letters</p> <p>DOI: 10.1007/S13391-018-0028-Z</p> <p>Accession Number: WOS:000431125500015</p>	10
<p><b>COMPACT, INTERDIGITATED CONSTRUCTAL DESIGN APPLIED TO SUPERCAPACITOR SYSTEMS</b></p> <p>Authors (5): Morega, Alexandra M.; Ordonez, Juan ... Dobre, Alin A.</p> <p>Published: 2018 in Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science</p> <p>Accession Number: WOS:000439880200027</p>	0
<p><b>Assessment of a smart home power quality measurement data</b></p> <p>Authors (3): Darie, E.; El-Leathey, L.-A.; Pîslaru-Dănescu, L.</p> <p>Published: 2018 in EEA - Electrotehnica, Electronica, Automatica</p>	Not indexed in the Web of Science

<p><b>A new type of linear magnetostrictive motor</b></p> <p>Authors (6): Pislaru-Danescu, Lucian; Morega, Alexandu M. ... Babutanu, Corina Alice</p> <p>Published: Jun 2017 in Electrical Engineering</p> <p>DOI: 10.1007/S00202-016-0388-Z</p> <p>Accession Number: WOS:000401692600014</p>	7
<p><b>Improvement of Polycrystalline Solar Cells Operation under Low Solar Radiation Conditions by Using ZnO Nanostructured Materials</b></p> <p>Authors (8): Chitanu, E.; Pislaru-Danescu, L. ... Sbarcea, B. G.</p> <p>Published: Mar 2017 in Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE)</p> <p>DOI: 10.1109/ATEE.2017.7905074</p> <p>Accession Number: WOS:000403399400149</p>	2
<p><b>Numerical Modeling of a Planar Transformer for Micro-Power Controllers</b></p> <p>Authors (4): Veli, Yelda; Morega, Alexandru M. ... Pislaru-Danescu, Lucian</p> <p>Published: Mar 2017 in Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE)</p> <p>DOI: 10.1109/ATEE.2017.7905119</p> <p>Accession Number: WOS:000403399400041</p>	1
<p><b>Analysis of Piezoelectric Structures Based on New Modified PZT Zirconate Titanate Designed for Energy Harvesting Applications</b></p> <p>Authors (4): Pislaru-Danescu, L.; Morega, M. ... Pintea, J.</p> <p>Published: Mar 2017 in Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE)</p> <p>DOI: 10.1109/ATEE.2017.7905075</p> <p>Accession Number: WOS:000403399400164</p>	0
<p><b>Behaviour analysis of the lead-zirconate-titanate (PZT) piezo-actuator for different wave excitation. A comparative study</b></p> <p>Authors (4): Arnau Cubillo, A.; Pislaru-Dănescu, L. ... Lipcinski, D.</p> <p>Published: 2017 in EEA - Electrotehnica, Electronica, Automatica</p>	<div>Not indexed in the Web of Science</div>
<p><b>High Frequency Miniature Planar Transformer for Energy Harvesting Applications</b></p> <p>Authors (4): Dumitru, Jean B.; Morega, Alexandru ... Pislaru-Danescu, Lucian</p> <p>Published: Oct 2016 in International Conference and Exposition on Electrical and Power Engineering (EPE)</p> <p>DOI: 10.1109/ICEPE.2016.7781385</p> <p>Accession Number: WOS:000390706300095</p>	1
<p><b>High frequency miniature planar transformer for energy harvesting applications</b></p> <p>Authors (4): Jean B. Dumitru; Alexandru Morega ... Lucian Pislaru-Danescu</p> <p>Published: Oct 2016 in International Conference and Exposition on Electrical and Power Engineering (EPE)</p> <p>DOI: 10.1109/ICEPE.2016.7781385</p>	<div>Not indexed in the Web of Science</div>
<p><b>Piezoelectric Ultrasonic Traveling Wave Motor</b></p> <p>Authors (3): Morega, Alexandru M.; Morega, Mihaela; Pislaru-Danescu, Lucian</p>	0

Published: Oct 2016 in International Conference on Applied and Theoretical Electricity (ICATE)

DOI: 10.1109/ICATE.2016.7754661

Accession Number: WOS:000390767500060

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**New Harvesting System Based on Photovoltaic Cells with Antireflexive ZnO Nanoparticles Coatings and DC/DC Isolation Conversion**

2

Authors (8): Pislaru-Danescu, Lucian; Chitanu, Elena ... Babutanu, Corina Alice

Published: Sep 2016 in PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL FRIENDLY ENERGIES AND APPLICATIONS (EFEA)

DOI: 10.1109/EFEA.2016.7748798

Accession Number: WOS:000390268800034

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**Preparation and Characterization of CeO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> Binary-Oxides and Their CO<sub>2</sub> Gas-Sensing Properties**

Authors (5): Gabriela Telipan; Lucian Pîslaru-Dănescu ... Dragos Ovezee

Published: Feb 2016 in Sensor Letters

DOI: 10.1166/SL.2016.3604

Not indexed in  
the Web of  
Science

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**SHAPE AND STRUCTURE OPTIMIZATION OF A MAGNETOSTRICTIVE CORED ACTUATOR**

3

Authors (4): Morega, Alexandru M.; Popa, Marius ... Pislaru-Danescu, Lucian

Published: Jan 2016 in International Journal of Heat and Technology

DOI: 10.18280/IJHT.34S115

Accession Number: WOS:000383470400016

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**Microgrids smart structures used for back-up power supply**

Authors (3): Pîslaru-Dănescu, L.; Lipan, L.-C.; El-Leathey, L.-A.

Published: 2016 in EEA - Electrotehnica, Electronica, Automatica

Not indexed in  
the Web of  
Science

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**ASSESMENT OF WIND ENERGY DENSITY PROBABILITY BY USING THE WEIBULL DISTRIBUTION FUNCTION. A STUDY CASE**

0

Authors (5): El-Leathey, Lucia-Andreea; Pislaru-Danescu, Lucian ... Nedelcu, Adrian

Published: 2016 in International Multidisciplinary Scientific GeoConference - SGEM Proceedings

DOI: 10.5593/SGEM2016/B41/S17.019

Accession Number: WOS:000391348600019

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**A new electronic active system for protection to quench hazard in high temperature superconducting coils**

Authors (5): L. Pislaru-Danescu; A. M. Morega ... I. Dobrin

Published: May 2015 in International Symposium on Advanced Topics in Electrical Engineering (ATEE)

DOI: 10.1109/ATEE.2015.7133889

Not indexed in  
the Web of  
Science

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<p><b>Numerical Study of the Stator Motion in a Piezoelectric Ultrasonic Motor</b>  Authors (4): Morega, A. M.; Robello, G. ... Pislaru-Danescu, L.  Published: May 2015 in International Symposium on Advanced Topics in Electrical Engineering (ATEE)  DOI: 10.1109/ATEE.2015.7133878  Accession Number: WOS:000368159800115</p>	2
<p><b>A New Electronic Active System for Protection to Quench Hazard in High Temperature Superconducting Coils</b>  Authors (5): Pislaru-Danescu, L.; Morega, A. M. ... Dobrin, I.  Published: May 2015 in International Symposium on Advanced Topics in Electrical Engineering (ATEE)  DOI: 10.1109/ATEE.2015.7133889  Accession Number: WOS:000368159800129</p>	0
<p><b>Electronic Drive System of a Linear Magnetostrictive Motor Designed for Outer Space Applications</b>  Authors (6): Pislaru-Danescu, L.; Morega, A. M. ... Flore, L.  Published: May 2015 in International Symposium on Advanced Topics in Electrical Engineering (ATEE)  DOI: 10.1109/ATEE.2015.7133769  Accession Number: WOS:000368159800040</p>	4
<p><b>New Energy Harvesting Systems, Designed for New Piezoelectric Transducers, with Charging Energy Management</b>  Authors (5): Pislaru-Danescu, Lucian; Lipan, Laurentiu Constantin ... Dumitru, Alina  Published: Oct 2014 in International Conference and Exposition on Electrical and Power Engineering (EPE)  DOI: 10.1109/ICEPE.2014.6969989  Accession Number: WOS:000353565300119</p>	2
<p><b>Magnetic Nanofluid Applications in Electrical Engineering</b>  Authors (6): Pislaru-Danescu, Lucian; Morega, Alexandru M. ... Marinescu, Virgil  Published: Nov 2013 in IEEE Transactions on Magnetics  DOI: 10.1109/TMAG.2013.2271607  Accession Number: WOS:000326246500015</p>	39
<p><b>FLOW PATTERNS IN THE MAGNETIC NANOFLUID CORE OF A MINIATURE PLANAR SPIRAL TRANSFORMER</b>  Authors (4): Morega, Alexandru Mihail; Dumitru, Jean Bogdan ... Pislaru-Danescu, Lucian  Published: Jun 2013 in Environmental Engineering and Management Journal  DOI: 10.30638/EEMJ.2013.144  Accession Number: WOS:000325632500009</p>	1
<p><b>A parametric study of lumped circuit parameters of a miniature planar spiral transformer</b>  Authors (4): J. B. Dumitru; A. M. Morega ... M. Morega  Published: May 2013 in International Symposium on Advanced Topics in Electrical Engineering (ATEE)</p>	



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**A Parametric Study of Lumped Circuit Parameters of a Miniature Planar Spiral Transformer**

0

Authors (4): Dumitru, J. B.; Morega, A. M. ... Morega, M.

Published: May 2013 in International Symposium on Advanced Topics in Electrical Engineering (ATEE)

DOI: 10.1109/ATEE.2013.6563477

Accession Number: WOS:000332928500131

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**New Concept of Measurement Apparatus for the in situ Electrical Resistivity of Concrete Structures**

1

Authors (4): Pislaru-Danescu, L.; Morega, A. M. ... Stoica, V.

Published: May 2013 in International Symposium on Advanced Topics in Electrical Engineering (ATEE)

DOI: 10.1109/ATEE.2013.6563531

Accession Number: WOS:000332928500185

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**Prototyping a Ferrofluid-Cooled Transformer**

40

Authors (9): Pislaru-Danescu, Lucian; Morega, Alexandru M. ... Borbath, Tuende

Published: May 2013 in IEEE Transactions on Industry Applications

DOI: 10.1109/TIA.2013.2252872

Accession Number: WOS:000319152500033

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**Magnetic and Electric Sizing of a Miniature Planar Spiral Transformer**

2

Authors (5): Morega, A. M.; Morega, M. ... Stoica, V.

Published: Oct 2012 in International Conference and Exposition on Electrical and Power Engineering (EPE)

DOI: 10.1109/ICEPE.2012.6463572

Accession Number: WOS:000324685300118

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**Design and implementation of a Combined Cooling, Heating and Power Plant to support data centre supply reliability**Not indexed in  
the Web of  
Science

Authors (6): Laurentiu Constantin Lipan; Lucian Pislaru-Danescu ... Gheorghe Comanescu

Published: Sep 2012 in International Universities Power Engineering Conference (UPEC)

DOI: 10.1109/UPEC.2012.6398623

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**A novel microactuator device based on magnetic nanofluid**Not indexed in  
the Web of  
Science

Authors (3): Alexandru M. Morega; Lucian Pislaru-Danescu; Mihaela Morega

Published: May 2012 in International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)

DOI: 10.1109/OPTIM.2012.6231963

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**A Novel Microactuator Device Based on Magnetic Nanofluid**

4

Authors (3): Morega, Alexandru M.; Pislaru-Danescu, Lucian; Morega, Mihaela

Published: 2012 in PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, VOLS 1-5

Accession Number: WOS:000398866700164

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<p>Gas sensing properties of 1-D ZnO obtained by hydrothermal process</p> <p>Authors (5): Telipan, G.; Pislaru-Danescu, L. ... Zarnescu, G.</p> <p>Published: May 2011 in Optoelectronics and Advanced Materials, Rapid Communications</p> <p>Accession Number: WOS:000292891400037</p>	2
<p>A Novel Magnetostrictive Injection Actuator Based on New Giant Magnetostrictive Materials</p> <p>Authors (3): Pislaru-Danescu, L.; Morega, A. M.; Morega, M.</p> <p>Published: 2011 in Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE)</p> <p>Accession Number: WOS:000310701200122</p>	8
<p>Nanoparticles of ferrofluid Fe<sub>3</sub>O<sub>4</sub> synthetised by coprecipitation method used in microactuation process</p> <p>Authors (4): Pislaru-Danescu, L.; Morega, A. ... Stoica, V.</p> <p>Published: Aug 2010 in Optoelectronics and Advanced Materials, Rapid Communications</p> <p>Accession Number: WOS:000281734800030</p>	22
<p>A Novel, Ferrofluid-Cooled Transformer. Electromagnetic Field and Heat Transfer by Numerical Simulation</p> <p>Authors (6): Morega, A. M.; Morega, M. ... Stoian, F. D.</p> <p>Published: May 2010 in PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, VOLS 1-5</p> <p>DOI: 10.1109/OPTIM.2010.5510425</p> <p>Accession Number: WOS:000291967300016</p>	12
<p>Organo-siloxane supramolecular polymers used in CO<sub>2</sub> detection-Polymer thin film</p> <p>Published: 2010 in Polymer Thin Films</p> <p>DOI: 10.5772/8398</p> <p>Accession Number: WOS:000363637600016</p>	1
<p>Nanoparticles of ferrofluid Fe<sub>3</sub>O<sub>4</sub> synthetised by coprecipitation method used in microactuation process</p> <p>Authors (4): Pislaru-Danescu, L.; Morega, A. ... Stoica, V.</p> <p>Published: 2010 in Optoelectronics and Advanced Materials, Rapid Communications</p>	<div>Not indexed in the Web of Science</div>
<p>The Determination of the Total Magnetic Losses in the Stator of the Asynchronous Electrical Micromachines Fed with Pulse Width Modulation, PWM, and with Triangular Waveforms, Respectively</p> <p>Authors (4): Lucian Pislaru-Danescu; Mircea Ignat ... Victor Stoica</p> <p>Published: 2009 in International Conference on Electrical Machines</p> <p>DOI: 10.1109/ICELMACH.2008.4800072</p> <p>Accession Number: WOS:000269315000254</p>	0
<p>CO<sub>2</sub> Detector Based on Organo-Siloxane Supramolecular Polymer</p> <p>Authors (3): Telipan, G.; Pislaru-Danescu, L.; Racles, C.</p>	1

Sensor and apparatus for CO2 detector with organo-siloxane supramolecular polymers sensitive layer  
Authors (3): Telipan, G.; Paslaru-Danescu, L.; Racles, C.  
Published: 2008 in Metalurgia International

Not indexed in  
the Web of  
Science

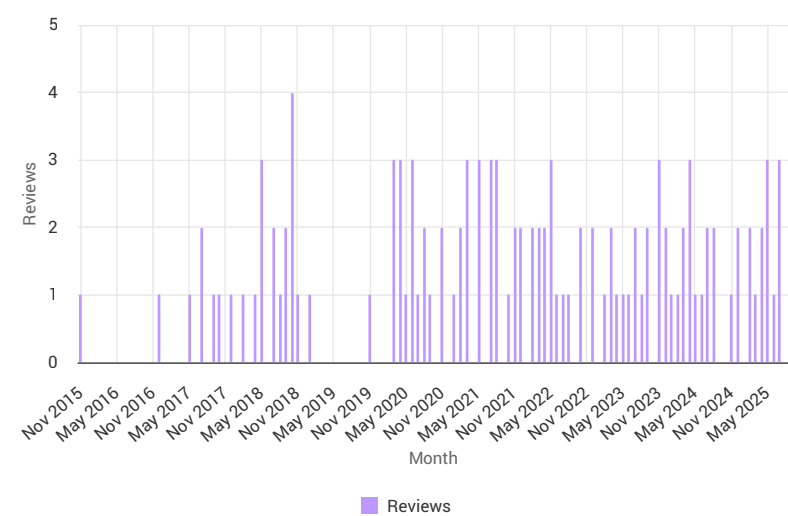
Sensor and apparatus for CO2 detector with organo-siloxane supramolecular polymers sensitive layer 0  
Authors (3): Telipan, G.; Pislaru-Danescu, L.; Racles, C.  
Published: 2008 in Metalurgia International  
Accession Number: WOS:000258590700005

Aspects about applications of magnetostrictive macroactuator in oil industry 2  
Authors (3): Mircea Ignat; Cristinel Ioan Haraguta; Lucian Paslaru  
Published: Sep 2007 in International Aegean Conference on Electrical Machines and Power Electronics & Electromotion, Proceedings  
DOI: 10.1109/ACEMP.2007.4510486  
Accession Number: WOS:000256943100013

Piezoelectric micromotor with coaxial cylindrical convertor 0  
Authors (3): Ignat, Mircea; Zarnescu, George; Pislaru-Danescu, Lucian  
Published: Sep 2007 in International Aegean Conference on Electrical Machines and Power Electronics & Electromotion, Proceedings  
DOI: 10.1109/ACEMP.2007.4510490  
Accession Number: WOS:000256943100017

## Verified Reviews

### Review Summary



## Reviewer Summary

For manuscripts reviewed from date range August 2006 - August 2025

(33) Sensors	(27) IEEE Transactions on Industrial ...
(15) Energies	(12) Actuators
(7) Applied Sciences	(6) Materials
(4) Processes	(3) IEEE Sensors Letters
(2) Journal of Magnetism and Magne...	(2) Mathematical and Computations...
(2) International Journal of Electrical...	(2) Solar
(2) Electronics	(2) Micromachines
(1) IET Science, Measurement and T...	(1) Journal of Inorganic and Organo...

### 121 REVIEWS OF 72 MANUSCRIPTS

For manuscripts published from date range August 2006 - August 2025

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Linear Control of Active Magnetic Bearing Using Five-Phase Six-Leg Switching Power Amplifiers  
Reviewed: Jul 2025 for IEEE Transactions on Industrial Electronics

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An Optimized Double Synchronized Switch Harvesting scheme and self-powered topology implementation  
3 rounds from Apr 2025 to Jul 2025 for IEEE Transactions on Industrial Electronics

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Detection of Weak Muscle Fatigue Using Bioimpedance Spectroscopy Based on Current Concentration  
2 rounds from May 2025 to Jul 2025 for IEEE Sensors Letters

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Research on Automatic Gain Control of Electromagnetic Ultrasonic Echo Based on Peak Detection  
Reviewed: May 2025 for IEEE Transactions on Industrial Electronics

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Design of Concave Contact Geometry for Enhanced Sealing and Structural Integrity in Ultra-High Pressure Hydrogen Solenoid Valves  
2 rounds from Apr 2025 to May 2025 for Applied Sciences

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Reducing sintering temperature while optimizing electrical properties of BCZT-based lead-free ceramics by adding MnO<sub>2</sub> as sintering aid  
Reviewed: Mar 2025 for Materials

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Design and Performance Evaluation with Open-loop Force Controller for Delta-type Haptic Device with Magnetorheological Fluid Actuator  
2 rounds from Feb 2025 to Feb 2025 for Actuators

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Design and Evaluation of Electrodes for Bioelectrical Impedance Sensors  
Reviewed: Dec 2024 for IEEE Sensors Letters

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Design and Analysis of a Proportional Electromagnet with Experimental Validation for Static and Dynamic Behavior  
2 rounds from Nov 2024 to Dec 2024 for Applied Sciences

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A Novel Approach to Energy Management with Power Quality Enhancement in Hydrogen Based Microgrids through Numerical Simulation

2 rounds from Aug 2024 to Aug 2024 for Applied Sciences

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Evaluation of the impact of stress distribution on polyurethane trileaflet heart valve leaflets in the open configuration

2 rounds from Jul 2024 to Jul 2024 for Mathematical and Computational Applications

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Research on Electromagnetic Drive Exhaust Valve Opening Assistance Method

3 rounds from Apr 2024 to Jun 2024 for Actuators

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Non-contact Time-varying Current Reconstruction for Electromagnetic Immunity Diagnosis in Electric Vehicle Module Injection Port Testing

3 rounds from Sep 2023 to Apr 2024 for IEEE Transactions on Industrial Electronics

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Design and performance of Soft Sensory-Motor System based on Ionic Solution for Robotic Application

2 rounds from Mar 2024 to Apr 2024 for Sensors

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Comparative Evaluation of Three-Phase Three-Level Flying Capacitor and Stacked Polyphase Bridge GaN Inverter Systems for Integrated Motor Drives

Reviewed: Mar 2024 for Electronics

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A Feedforward Control based Power Decoupling Strategy for Grid-Forming Grid-Connected Inverters

2 rounds from Dec 2023 to Jan 2024 for Energies

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Design, Fabrication, and Evaluation of a Phase-Resolved Partial Discharge Sensor embedded in MV-Class Bushing

2 rounds from Nov 2023 to Dec 2023 for Sensors

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Push-Pull Inverter Using Amplitude Control and Frequency Tracking for Piezoelectric Transducers

2 rounds from Nov 2023 to Nov 2023 for Micromachines

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Study of the Protection and Energy Transmission Modes of One Phase Short Circuit to Ground in Inverters

3 rounds from Jul 2023 to Sep 2023 for Sensors

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Harmonic stability assessment of commercially available single-phase photovoltaic inverter considering operating point dependencies

2 rounds from May 2023 to Jul 2023 for Solar

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Enhancing Artifact Protection in Smart Transportation Monitoring Systems via a Porous Structural Triboelectric Nanogenerator

Reviewed: Jun 2023 for Electronics

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Low-Cost Turbidity Sensor to Determine Eutrophication in Water Bodies

2 rounds from Mar 2023 to Apr 2023 for Sensors

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First Ex Vivo Animal Study of a Biological Heart Valve Prosthesis Sensorized with Intravalvular Impedance

Reviewed: Mar 2023 for Sensors

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Charging Protocol for Partially Rechargeable Mobile Sensor Networks

Reviewed: Feb 2023 for Sensors

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Simulation of Layer Thickness Measurement in Thin Multi-Layered Material by Variable-Focus Laser Ultrasonic Testing

2 rounds from Dec 2022 to Dec 2022 for Sensors

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Innovative IntraValvular Impedance Sensing Applied to Biological Heart Valve Prostheses: Design and In Vitro Evaluation

2 rounds from Oct 2022 to Oct 2022 for Sensors

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Refined appearance potential mass spectrometry for high ac-curacy radical density quantification in plasma

Reviewed: Aug 2022 for Sensors

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A Multifunctional Non–Constant Current Charger Based on Dual Switching Bidirectional Flyback Converter

2 rounds from Jun 2022 to Jul 2022 for Processes

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Pendulum-Based River Current Energy Converter for Hydrometric Monitoring Systems

2 rounds from May 2022 to May 2022 for Sensors

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Electric drives: complexes of non-linear electromechanical links identified by non-linear transfer functions and families of frequency characteristics

2 rounds from Mar 2022 to May 2022 for Processes

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The development of piezoelectric inchworm actuator clamped with magnetorheological elastomer (MRE) and its potential application in brain-computer interface implantation

3 rounds from Dec 2021 to Apr 2022 for IEEE Transactions on Industrial Electronics

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Permeance Based Design and Analysis of Supercapacitor Assisted Surge Absorber for Magnetic Component Selection

3 rounds from Oct 2021 to Apr 2022 for IEEE Transactions on Industrial Electronics

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An Electromechanical Model for Clamped-Edge Bimorph Disk Type Piezoelectric Transformer Utilizing Kirchhoff Thin Plate Theory

2 rounds from Feb 2022 to Mar 2022 for Sensors

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Experimental and CFD Characterization of a Double-Orifice Synthetic Jet Actuator for Flow Control

2 rounds from Nov 2021 to Nov 2021 for Actuators

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Experimental Investigations of Different Loudspeakers Applied as Synthetic Jet Actuators

2 rounds from Jul 2021 to Aug 2021 for Actuators

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A Novel Excitation Method for Piezoelectric Stick-slip Actuator to Eliminate Rollback and Generate Precise Smooth Motion

Reviewed: Aug 2021 for IEEE Transactions on Industrial Electronics

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Sensitivity of Racing Tire Sliding Energy to Major Setup Changes: An Estimate Based on Standard Sensors

2 rounds from Jul 2021 to Aug 2021 for Energies

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A Compact Ultrasonic Burnishing System for High Precision Planar Burnishing: Design and Performance Evaluation

2 rounds from May 2021 to Jul 2021 for IEEE Transactions on Industrial Electronics

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Helmholtz Resonance Frequency of the Synthetic Jet Actuator

Reviewed: May 2021 for Applied Sciences

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Structural, Morphological and Optical Bandgap Analysis of Multifunction Applications of Y2O3 - ZnO Nanocomposites : Varistors and Visible Photocatalytic Degradations of Wastewater

Reviewed: May 2021 for Journal of Inorganic and Organometallic Polymers and Materials

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Design of a Piezoelectric Energy Conversion Based Wind Generator

2 rounds from Feb 2021 to Mar 2021 for International Journal of Electrical Engineering Education

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Finite Element Modeling and Performance Evaluation of Piezoelectric Energy Harvesters with Various Piezoelectric Unit Distributions

2 rounds from Feb 2021 to Mar 2021 for Materials

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A Compact 2-DOF Micro/Nano Manipulator Using Single Miniature Piezoelectric Tube Actuator  
2 rounds from Jan 2021 to Mar 2021 for IEEE Transactions on Industrial Electronics

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Design and analysis of quad-trapezoidal-leg orthoplanar spring for Piezoelectric vibration energy harvester  
2 rounds from Nov 2020 to Nov 2020 for Energies

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A heat exchanger based on the piezoelectric pump for CPU cooling  
Reviewed: Sep 2020 for IEEE Transactions on Industrial Electronics

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Multi-enzyme immobilization onto a capacitive field-effect biosensor by nano-spotting technique  
2 rounds from Aug 2020 to Aug 2020 for Sensors

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Fluid Degradation Measurement Based on a Dual Coil Frequency Response Analysis  
2 rounds from Jun 2020 to Jul 2020 for Sensors

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A Theoretical and Empirical Investigation of Design Characteristics in a Pb(Zr,Ti)O-3-Based Piezoelectric Accelerometer  
2 rounds from Jun 2020 to Jun 2020 for Sensors

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Monitoring with In Vivo Electrochemical Sensors: Navigating the Complexities of Blood and Tissue Reactivity  
Reviewed: May 2020 for Sensors

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Modeling and Experimental Study of Oil-cooled Stacked Giant Magnetostrictive Actuator for Servo Valve  
2 rounds from Apr 2020 to Apr 2020 for Actuators

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Performance Enhancement of Direct Torque-Controlled Permanent Magnet Synchronous Motor with a Flexible Switching Table  
2 rounds from Mar 2020 to Apr 2020 for Energies

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Phase evolution, filler-matrix interactions and piezoelectric properties in lead zirconate titanate (PZT) filled polymer derived ceramics (PDCs)  
Reviewed: Mar 2020 for Materials

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Design and Experimental Validation of a 3-DOF Force Feedback System Featuring Spherical Manipulator and Magneto-rheological Actuators  
Reviewed: Mar 2020 for Actuators

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Design and Experiments of a Piezoelectric Motor Using Three Rotating Mode Actuators  
Reviewed: Nov 2019 for Sensors

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Novel Adhesion Technique Using Metallic or Non-Metallic Hydrous Oxide of Metal Complexes Involving Magnetic Compound Fluid Rubber under Electrolytic Polymerization and Magnetic Field for Producing Sensors  
Reviewed: Jan 2019 for Sensors

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Displacement and Force Self-Sensing Technique for Piezoelectric Actuators Using a Nonlinear Constitutive Model  
2 rounds from Oct 2018 to Nov 2018 for IEEE Transactions on Industrial Electronics

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Pulse current sources for plasma accelerators  
2 rounds from Oct 2018 to Oct 2018 for Energies

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A Novel Step-Up Converter with an Ultrahigh Voltage Conversion Ratio  
2 rounds from Sep 2018 to Oct 2018 for Energies

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Performance Optimization of a Photovoltaic Inverter Based on a New DPWM Overmodulation Algorithm

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2 rounds from Jul 2018 to Sep 2018 for Energies

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A Compound Controller Design for a Buck Converter

Reviewed: Aug 2018 for Energies

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Experimental Verification of the Pumping Effect Caused by the Micro-Tapered Hole in a Piezoelectric Atomizer

Reviewed: Jul 2018 for Sensors

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Elastic MCF Rubber with Photovoltaics and Sensing on Hybrid Skin (H-Skin) for Artificial Skin by Utilizing Natural Rubber: Third Report on Electric Charge and Storage under Tension and Compression

Reviewed: May 2018 for Sensors

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A Friction-Inertial-Based Rotary Motor: Design, Modelling and Experiments

Reviewed: May 2018 for Materials

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Laminar ferrofluid heat transfer in presence of non-uniform magnetic field in a channel with sinusoidal wall: A numerical study

Reviewed: May 2018 for Journal of Magnetism and Magnetic Materials

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Effect of Weight on the Resonant Tuning of Energy Harvesting Devices Using Giant Magnetostrictive Materials

Reviewed: Apr 2018 for Materials

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The Effect of Vibration Characteristics on the Atomization Rate in a Micro-Tapered Aperture Atomizer

Reviewed: Feb 2018 for Sensors

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Modelling and Theoretical Analysis of Air-Core Transformers with Strong Coupled Schemes

Reviewed: Dec 2017 for IEEE Transactions on Industrial Electronics

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Analysis on Coupled Vibration of a Radially Polarized Piezoelectric Cylindrical Transducer

Reviewed: Oct 2017 for Sensors

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Design-Oriented Modelling of Axial-Flux Variable-Reluctance Resolver Based on Magnetic Equivalent Circuits and Schwarz-Christoffel Mapping

3 rounds from May 2017 to Sep 2017 for IEEE Transactions on Industrial Electronics

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Study on Simulation Cooling Test for Oil-immersed Split Cooling Type

Reviewed: Jul 2017 for IET Science, Measurement and Technology

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Feasibility study of electrical resistance tomography on concrete structures

Reviewed: Dec 2016 for IEEE Transactions on Industrial Electronics

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A multi-phase ferrofluid flow model with equation of state for thermomagnetic pumping and heat transfer

Reviewed: Nov 2015 for Journal of Magnetism and Magnetic Materials

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