# Table of Contents

## International Journal of Applied Nanotechnology Research

Volume 4 • Issue 1 • January-June-2019 • ISSN: 2640-0383 • eISSN: 2640-0391

### Editorial Preface

iv  Editorial Preface for the International Journal of Applied Nanotechnology Research (IJANR)
  Bakhtiyor Rasulev, North Dakota State University, Fargo, USA

### Research Articles

1  Machine Learning Applications in Nanomedicine and Nanotoxicology: An Overview
   Gerardo M. Casañola-Martin, North Dakota State University, Fargo, USA
   Hai Pham-The, Hanoi University of Pharmacy, Hanoi, Vietnam

8  Higher Dimensions of Clusters of Intermetallic Compounds: Dimensions of Metallic Nanoclusters
   Gennadiy V Zhizhin, Skolkovo Innovation Center, Moscow, Russia

26  3D-Printed Conductive Filaments Based on Carbon Nanostructures Embedded in a Polymer Matrix: A Review
    Diogo José Horst, Department of Mechanical Engineering and Sciences, Federal University of Santa Catarina - UFSC, Joinville, Brazil
    Pedro Paulo Andrade Junior, Department of Mechanical Engineering and Sciences, Federal University of Santa Catarina - UFSC, Joinville, Brazil

41  Design of Nano-scale Electrodes and Development of Avatar-Based Control System for Energy-Efficient Power Engineering: Application of an Internet of Things and People (IOTAP) Research Center
    Vardan Mkrttchian, HHH University, Brisbane, Queensland, Australia
    Leyla Gamidullaeva, Penza State University, Penza, Russia
    Rinat Galiautdinov, Independent Researcher, Rome, Italy

---

**COPYRIGHT**

The International Journal of Applied Nanotechnology Research (IJANR) (ISSN 2640-0383; eISSN 2640-0391), Copyright © 2019 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.