1. Record Nr. UNINA9910459982103321

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| Titolo | Eco-materials processing and design XV : selected, peer reviewed papers from the 15th International Symposium on Eco-Materials Processing and Design (ISEPD 2014), January 12-15, 2014, Hanoi, Vietnam / / edited by Banh Tien Long [and four others] |
| Pubbl/distr/stampa | Pfaffikon, Switzerland : , : Trans Tech Publications Ltd., , [2015]<br>©2015 |
| ISBN | 3-03826-622-1 |
| Descrizione fisica | 1 online resource (327 p.) |
| Collana | Materials science forum ; ; volume 804 |
| Disciplina | 620.11 |
| Soggetti | Materials management - Environmental aspects<br>Materials - Environmental aspects<br>Environmental engineering<br>Environmental protection - Design<br>Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and indexes. |
| Nota di contenuto | Eco-Materials Processing and Design XV; Preface and Organizing Committee; Table of Contents; I. Materials for Environment Preservation, Energy Conservation/Harvesting and New Energy; Characterization of Cast Iron Scrap Chips toward -FeSi2 Thermoelectric Materials; Two-Step Sintering of Non-Stoichiometric CeO2-x; Adsorption Characteristics of Impregnated Adsorbent for Mercury Removal; Effect of the Alkali-Activation on the Mechanical Property of Geopolymer Composite; Fabrication of FRP Spacers of Insulating Glass for Energy-Saving Eco-Friendly Home Synthesis of Diglycerol Ester as Insulating Oil for Offshore Wind Turbine TransformerThe Effects of Deposited Material and Loaded Amount within Synthesis of TMP-Ester; Effect of CaO Content on Yb: YAG Disk Laser Weldability of AZ31 Mg Alloy; Fabrication and Electrochemical Performance of Nitrogen-Doped Graphene Synthesized by Hydrothermal Method; Graphene Oxide Based Selective VOCs Sensor for Indoor Air Quality Monitoring; Thermocatalytic Degradation of Low |

Density Polyethylene Films at Artificial Aging Treatment under Lower Temperature
Low-Temperature Thermocatalytic Degradation of Polyethene Films by Nano-Titanium Dioxide in WaterStudy on Aqueous Viscosity Behaviors of Hydroxypropyl Methylcellulose Hydrosol and Konjac Glucomanan Hydrosol; Effect of Lignin and RLDPE Soil Amendments on Water Holding Capacities of Desert; Biosorption of Strontium Ions by Low-Cost Sunflower Stem and Leaf; Preparation and Characterizations of Novel Near Room-Temperature Driven Fe/Sr2Bi2O5 Thermocatalyst; Effects of Ultrafine Grinded Steel Slag Addition on Properties of Cement Effect of Calcium Compounds on Mechanical Properties of Eco-Friendly Non-Cement MortarEnhancement of PEM Fuel Cell Performance by Flow Control; II. Materials Cutting and Processing Technologies for Reduction of Environmental Impact; A Comparative Study on the Physical Properties of Artificial Aggregates Made from Acid Clay and Dredged Soil; Dust Removal Using Electrode-Plates Coated with Activated Carbon; Effects of Nano-Porous Materials and Inert Gas on Sound Proof Properties of Double Layer Acryl Plate; Characteristics of MSWI Ash and its Application to Zeolite Synthesis
III. Eco-Processing and Design on Polymer, Ceramics, Metals, SemiconductorsCharacteristics of Pollutants Removal by Carbonized Porous Media Made from Sewage Sludge ; Fabrication of Aluminum Superhydrophobic Surface with Facile Chemical Etching Method; Purification and Size Control of AlN Powder for AlN Single Crystal Growth; A Brief Review on TiO2 Coating Deposited by Cold Spraying; Protective Agent Free Eco-Synthesis of Silver Nanowire via Needle-Shaped Silver Acetate Precursor; Synthesis and Characterization of Ag/Graphene Nanocomposites by Solid-Liquid Sonochemical Reactions Production and Characterization of Recycled SUS 439L Powders by Gas Atomization Process

Sommario/riassunto

Collection of selected, peer reviewed papers from the 15 th International Symposium on Eco-Materials Processing and Design, (ISEPD), January 12-15, 2014, Hanoi, Vietnam. The 74 papers are grouped as follows: I. Materials for Environment Preservation, Energy Conservation/Harvesting and New Energy,II. Materials Cutting and Processing Technologies for Reduction of Environmental Impact, III. Eco-Processing and Design on Polymer, Ceramics, Metals, Semiconductors, IV. High Performance Materials Including Nano-Materials for the Environment, and Coating/Corrosion, V. Hybrid Materials and Composites fo

2. Record Nr. UNISA996542664203316

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| Titolo | Biomimetic and Biohybrid Systems : 12th International Conference, Living Machines 2023, Genoa, Italy, July 10–13, 2023, Proceedings . Part II / / edited by Fabian Meder, Alexander Hunt, Laura Margheri, Anna Mura, Barbara Mazzolai |
| Pubbl/distr/stampa | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023 |
| ISBN | 3-031-39504-2 |
| Edizione | [1st ed. 2023.] |
| Descrizione fisica | 1 online resource (xxii, 397 pages) : illustrations (some color) |
| Collana | Lecture Notes in Artificial Intelligence, , 2945-9141 |
| Disciplina | 170 |
| Soggetti | Artificial intelligence - Biological applications<br>Biomimicry<br>Natural computation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Model reveals joint properties for which co-contracting antagonist muscles increases joint stiffness -- Biarticular muscles improve the stability of a neuromechanical model of the rat hindlimb -- Multimodal Parameter Inference for a Canonical Motor Microcircuit Controlling Rat Hindlimb Motion -- Towards a Soft Artificial Larynx: A Biomimetic Design -- A multibody approach for the finger force estimation of a robotic hand -- A Pneumatic Bending Actuator System Inspired by the Avian Tendon Locking Mechanism -- Study and preliminary modeling of microstructure and morphology of the elephant trunk skin -- Development of a Robotic Rat Hindlimb Model -- Toward a more realistic 3D biomimetic soft robotic tongue to investigate oral processing of semi-solid foods -- Optimization of Kirigami-Inspired Fingers Grasping Posture in Virtual Environments -- BrainX3: A neuroinformatic tool for interactive exploration of multimodal brain datasets -- Sporify: An Automated Tool to Quantify Spores in Z-Stacked 3D Samples -- A Comparison of Absolute and Relative Neural Encoding Schemes in Addition and Subtraction Functional Subnetworks -- GANGLIA: A tool for designing customized neuron circuit patterns -- The Tall, the Squat,and the Bendy: Parametric Modeling and Simulation Towards Multi-functional Biohybrid Robots -- A Simple |

Dynamic Controller for Emulating Human Balance Control -- Motivational modulation of consummatory behaviour and learning in a robot model of spatial navigation -- Topical grouping of thousands of Biomimetics articles according to their goals, results and methods -- Biomimetics Analyzed: Examples from an Epistemological and Ontological Perspective -- Feed Me: Robotic Infiltration of Poison Frog Families -- Triboelectric charging during insect walking on leaves: a potential tool for sensing plant-insect interactions -- Slug Battery: An Enzymatic Fuel Cell Tested in vitro in Aplysia californica Hemolymph -- Mycelium Bridge as a Living Electrical Conductor: Access Point to Soil Infosphere -- Living organisms as sensors for biohybrid monitoring systems -- Autonomous versus Manual Control of a Pasture Sanitation Robot -- A novel steerable catheter controlled with a biohybrid actuator: a feasibility study. .

Sommario/riassunto

This book constitutes the proceedings of the 12th International Conference on Biomimetic and Biohybrid Systems, Living Machines 2022, in Genoa, Italy, held in July 19–22, 2022. The 44 full papers and 14 short papers presented were carefully reviewed and selected from 67 submissions. They deal with research on novel life-like technologies inspired by the scientific investigation of biological systems, biomimetics, and research that seeks to interface biological and artificial systems to create biohybrid systems. The conference aims to highlight the most exciting research in both fields united by the theme of “Living Machines.”.