

Abderrahim Boudenne

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,938
citations

236833

25
h-index

175177

52
g-index

62
all docs

62
docs citations

62
times ranked

2839
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Thermophysical properties of natural fibre reinforced polyester composites. <i>Composites Science and Technology</i> , 2006, 66, 2719-2725. | 3.8 | 271 |
| 2 | Renewable materials to reduce building heat loss: Characterization of date palm wood. <i>Energy and Buildings</i> , 2011, 43, 491-497. | 3.1 | 257 |
| 3 | Effect of fiber loading and chemical treatments on thermophysical properties of banana fiber/polypropylene commingled composite materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1582-1588. | 3.8 | 256 |
| 4 | Thermal and mechanical performance of natural mortar reinforced with date palm fibers for use as insulating materials in building. <i>Energy and Buildings</i> , 2014, 81, 98-104. | 3.1 | 252 |
| 5 | Electrical and thermal behavior of polypropylene filled with copper particles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 1545-1554. | 3.8 | 226 |
| 6 | Electrical and thermophysical behaviour of PVC-MWCNT nanocomposites. <i>Composites Science and Technology</i> , 2008, 68, 1981-1988. | 3.8 | 218 |
| 7 | Experimental investigation of new biocomposite with low cost for thermal insulation. <i>Energy and Buildings</i> , 2013, 66, 267-273. | 3.1 | 163 |
| 8 | Thermophysical properties of polypropylene/aluminum composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 722-732. | 2.4 | 96 |
| 9 | Hygric properties and thermal conductivity of a new insulation material for building based on date palm concrete. <i>Construction and Building Materials</i> , 2017, 154, 963-971. | 3.2 | 88 |
| 10 | A simultaneous characterization of thermal conductivity and diffusivity of polymer materials by a periodic method. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 132-139. | 1.3 | 85 |
| 11 | The mechanical and adhesive properties of electrically and thermally conductive polymeric composites based on high density polyethylene filled with nickel powder. <i>Materials & Design</i> , 2013, 51, 620-628. | 5.1 | 77 |
| 12 | Electrical and thermal properties of polyethylene/silver nanoparticle composites. <i>Polymer Composites</i> , 2013, 34, 778-786. | 2.3 | 55 |
| 13 | Tensile properties, thermal conductivity, and thermal stability of short carbon fiber reinforced polypropylene composites. <i>Polymer Composites</i> , 2018, 39, E664. | 2.3 | 52 |
| 14 | Hygrothermal characterization of a new bio-based construction material: Concrete reinforced with date palm fibers. <i>Construction and Building Materials</i> , 2018, 192, 348-356. | 3.2 | 50 |
| 15 | Thermophysical properties of polyethylene filled with metal coated polyamide particles. <i>European Polymer Journal</i> , 2007, 43, 2443-2452. | 2.6 | 45 |
| 16 | Infrared emissivity measurement device: principle and applications. <i>Measurement Science and Technology</i> , 2006, 17, 2950-2956. | 1.4 | 43 |
| 17 | Improvement of thermal and electrical properties of Siliconeâ€“Ni composites using magnetic field. <i>European Polymer Journal</i> , 2015, 63, 11-19. | 2.6 | 40 |
| 18 | Effect of filler size on thermophysical and electrical behavior of nanocomposites based on expanded graphite nanoparticles filled in lowâ€“density polyethylene matrix. <i>Polymer Composites</i> , 2013, 34, 149-155. | 2.3 | 38 |

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|----|---|-----|-----------|
| 19 | Analysis of uncertainties in thermophysical parameters of materials obtained from a periodic method. Measurement Science and Technology, 2006, 17, 1870-1876. | 1.4 | 35 |
| 20 | Electrical, mechanical and adhesive properties of ethylene-vinylacetate copolymer (EVA) filled with wollastonite fibers coated by silver. European Polymer Journal, 2008, 44, 3827-3834. | 2.6 | 33 |
| 21 | Mechanical, thermophysical, and diffusion properties of TiO ₂ filled chlorobutyl rubber composites. Polymer Composites, 2011, 32, 1681-1687. | 2.3 | 33 |
| 22 | Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2 – morphological and structural characterization, physico-chemical stability and mechanical properties. Renewable and Sustainable Energy Reviews, 2015, 43, 1415-1426. | 8.2 | 33 |
| 23 | Anomalous behavior of thermal conductivity and diffusivity in polymeric materials filled with metallic particles. Journal of Materials Science, 2005, 40, 4163-4167. | 1.7 | 30 |
| 24 | Numerical modelling of the effective thermal conductivity of heterogeneous materials. Journal of Thermoplastic Composite Materials, 2013, 26, 336-345. | 2.6 | 27 |
| 25 | Thermophysical and Electrical Properties of Nanocomposites Based on Ethylene-Vinylacetate Copolymer (EVA) Filled with Expanded and Unexpanded Graphite. International Journal of Thermophysics, 2010, 31, 936-948. | 1.0 | 26 |
| 26 | Investigation on heat and moisture transfer in bio-based building wall with consideration of the hysteresis effect. Building and Environment, 2019, 163, 106333. | 3.0 | 24 |
| 27 | Experimental investigation on hygrothermal performance of a bio-based wall made of cement mortar filled with date palm fibers. Energy and Buildings, 2019, 202, 109413. | 3.1 | 24 |
| 28 | Study on the Durability of New Construction Materials Based on Mortar Reinforced with Date Palm Fibers Wastes. Waste and Biomass Valorization, 2020, 11, 3801-3809. | 1.8 | 24 |
| 29 | Effect of amphiphilic coupling agent on heat flow and dielectric properties of flax polypropylene composites. Composites Part B: Engineering, 2012, 43, 526-532. | 5.9 | 22 |
| 30 | Recent Advances in Green Composites. Key Engineering Materials, 0, 425, 107-166. | 0.4 | 21 |
| 31 | Transport properties of polyester composite reinforced with treated sisal fibers. Journal of Reinforced Plastics and Composites, 2012, 31, 117-127. | 1.6 | 20 |
| 32 | Temperature and liquid crystal concentration effect on thermal conductivity of poly(styrene) dispersed 5CB liquid crystal. Journal of Applied Polymer Science, 2003, 89, 481-486. | 1.3 | 19 |
| 33 | Experimental and modeling study of effective thermal conductivity of polymer filled with date palm fibers. Polymer Composites, 2017, 38, 1712-1719. | 2.3 | 19 |
| 34 | Mechanical and thermal properties of polycarbonate, part 1: Influence of free quenching. Journal of Applied Polymer Science, 2008, 109, 1505-1514. | 1.3 | 16 |
| 35 | Thermophysical properties of CTBN and HTPB liquid rubber modified epoxy blends. Journal of Applied Polymer Science, 2010, 116, 3232-3241. | 1.3 | 16 |
| 36 | Analytical and Numerical Investigation on Effective Thermal Conductivity of Polymer Composites Filled with Conductive Hollow Particles. International Journal of Thermophysics, 2013, 34, 101-112. | 1.0 | 16 |

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|----|---|-----|-----------|
| 37 | Thermophysical and mechanical properties of TiO ₂ and silica nanoparticle-filled natural rubber composites. <i>Journal of Elastomers and Plastics</i> , 2012, 44, 369-382. | 0.7 | 15 |
| 38 | Significant enhancement of electrical and thermal conductivities of polyethylene carbon nanotube composites by the addition of a low amount of silver nanoparticles. <i>Polymers for Advanced Technologies</i> , 2014, 25, 1054-1059. | 1.6 | 14 |
| 39 | Mechanical and thermal properties of polycarbonate. II. Influence of titanium dioxide content and quenching on pigmented polycarbonate. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2710-2717. | 1.3 | 13 |
| 40 | Controlled Emissivity Coatings to Delay Ignition of Polyethylene. <i>Materials</i> , 2015, 8, 6935-6949. | 1.3 | 13 |
| 41 | Thermophysical properties of ethylene-vinylacetate copolymer (EVA) filled with wollastonite fibers coated by silver. <i>European Polymer Journal</i> , 2008, 44, 3817-3826. | 2.6 | 12 |
| 42 | Mechanical and thermophysical properties of EVA copolymer filled with nickel particles. <i>Polymer Composites</i> , 2011, 32, 727-736. | 2.3 | 12 |
| 43 | Mechanical Properties and Morphology of Composites Based on the EVA Copolymer Filled with Expanded Graphite. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 1388-1393. | 1.9 | 12 |
| 44 | Use of hollow metallic particles for the thermal conductivity enhancement and lightening of filled polymer. <i>Polymer Degradation and Stability</i> , 2016, 127, 113-118. | 2.7 | 11 |
| 45 | Sensitivity analysis of transient heat and moisture transfer in a bio-based date palm concrete wall. <i>Building and Environment</i> , 2021, 202, 108019. | 3.0 | 11 |
| 46 | Thermophysical characterization of polymers according to the temperature using a periodic method. <i>Polymer Testing</i> , 2018, 66, 235-243. | 2.3 | 10 |
| 47 | Thermal and electrical properties of phenol formaldehyde foams reinforcing with reduced graphene oxide. <i>Polymer Composites</i> , 2020, 41, 4329-4339. | 2.3 | 8 |
| 48 | Thermal Conductivity of Polymer/Carbon Nanotube Composites. <i>Materials Science Forum</i> , 0, 714, 99-113. | 0.3 | 7 |
| 49 | Physical, Thermophysical and Interfacial Properties of Multiphase Polymer Systems: State of the Art, New Challenges and Opportunities. , 2011, , 1-12. | | 6 |
| 50 | Numerical Investigation of Heat Transfer of Silver-Coated Glass Particles Dispersed in Ethylene Vinyl Acetate Matrix. <i>International Journal of Thermophysics</i> , 2014, 35, 1803-1816. | 1.0 | 6 |
| 51 | Parametric estimation of thermoradiative properties of materials based on harmonic excitation. <i>Review of Scientific Instruments</i> , 2006, 77, 035106. | 0.6 | 5 |
| 52 | A simultaneous characterization and uncertainty analysis of thermal conductivity and diffusivity of bio-insulate material "Palm date Wood" obtained from a periodic method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 13, 012015. | 0.3 | 5 |
| 53 | Dataset on the hygrothermal performance of a date palm concrete wall. <i>Data in Brief</i> , 2019, 27, 104590. | 0.5 | 4 |
| 54 | Numerical modelling and experimental study of heat and moisture properties of a wall based on date palm fibers concrete. <i>E3S Web of Conferences</i> , 2019, 85, 02009. | 0.2 | 4 |

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|----|--|-----|-----------|
| 55 | Development of Bio-Composites Based of Polymer Matrix and Keratin Fibers: Contribution to Poultry Biomass Recycling. Materials Science Forum, 0, 714, 237-243. | 0.3 | 2 |
| 56 | Hygrothermal study of mortar with date palm fiber reinforcement. AIP Conference Proceedings, 2018, , . | 0.3 | 2 |
| 57 | Measurement of Thermophysical Properties by Two Different Methods and Study of Their Uncertainties. , 2006, , . | | 0 |
| 58 | Experimental investigation of the hygrothermal performance of a new biocomposite material at wall scale. AIP Conference Proceedings, 2018, , . | 0.3 | 0 |