

Petr Valasek

List of Publications by Year in descending order

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86
papers

1,012
citations

471509

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477307

29
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90
all docs

90
docs citations

90
times ranked

716
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The effect of sandblasting on surface properties for adhesion. International Journal of Adhesion and Adhesives, 2016, 70, 176-190. | 2.9 | 112 |
| 2 | Tribological characterization of vegetal lubricants: Comparative experimental investigation on Jatropha curcas L. oil, Rapeseed Methyl Ester oil, Hydrotreated Rapeseed oil. Tribology International, 2017, 109, 529-540. | 5.9 | 85 |
| 3 | Exploitation of waste date seeds of Phoenix dactylifera in form of polymeric particle biocomposite: Investigation on adhesion, cohesion and wear. Composites Part B: Engineering, 2016, 104, 9-16. | 12.0 | 55 |
| 4 | Mechanical properties and abrasive wear of white/brown coir epoxy composites. Composites Part B: Engineering, 2018, 146, 88-97. | 12.0 | 51 |
| 5 | Experimental description of strength and tribological characteristic of EFB oil palm fibres/epoxy composites with technologically undemanding preparation. Composites Part B: Engineering, 2017, 122, 79-88. | 12.0 | 45 |
| 6 | Abrasive wear effect on Polyethylene, Polyamide 6 and polymeric particle composites. Manufacturing Technology, 2012, 12, 55-59. | 1.4 | 43 |
| 7 | Influence of Alkali Treatment on the Microstructure and Mechanical Properties of Coir and Abaca Fibers. Materials, 2021, 14, 2636. | 2.9 | 42 |
| 8 | The Influence of Modification with Natural Fillers on the Mechanical Properties of Epoxy Adhesive Compositions after Storage Time. Materials, 2020, 13, 291. | 2.9 | 36 |
| 9 | Tribology of Natural Fibers Composite Materials: An Overview. Lubricants, 2020, 8, 42. | 2.9 | 35 |
| 10 | Mechanical properties of adhesive bonds reinforced with biological fabric. Journal of Adhesion Science and Technology, 2017, 31, 1859-1871. | 2.6 | 27 |
| 11 | Bio-Pellet Fuel from Oil Palm Empty Fruit Bunches (EFB): Using European Standards for Quality Testing. Sustainability, 2018, 10, 4443. | 3.2 | 27 |
| 12 | On the Tribological Performance of Vegetal Lubricants: Experimental Investigation on Jatropha Curcas L. oil. Procedia Engineering, 2016, 149, 431-437. | 1.2 | 26 |
| 13 | Friction and Wear Behaviors of Al/Epoxy Composites during Reciprocating Sliding Tests. Manufacturing Technology, 2015, 15, 684-689. | 1.4 | 25 |
| 14 | Influence of Plasma Treatment on Mechanical Properties of Cellulose-based Fibres and Their Interfacial Interaction in Composite Systems. BioResources, 2017, 12, . | 1.0 | 22 |
| 15 | Effect of active rubber powder on structural two-component epoxy resin and its mechanical properties. Journal of Adhesion Science and Technology, 2018, 32, 1531-1547. | 2.6 | 22 |
| 16 | Thermoset Composite on Basis of Recycled Rubber. Advanced Materials Research, 0, 801, 67-73. | 0.3 | 21 |
| 17 | Abrasive wear in three-phase waste-based polymeric particle composites. Tehnicki Vjesnik, 2015, 22, 257-262. | 0.2 | 20 |
| 18 | Strength Characteristics of Untreated Short-fibre Composites from the Plant Ensete ventricosum. BioResources, 2016, 12, . | 1.0 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Mechanical Properties of Epoxy Resins Filled with Waste Rubber Powder. <i>Manufacturing Technology</i> , 2014, 14, 632-637. | 1.4 | 17 |
| 20 | Material Utilization of Cotton Post-Harvest Line Residues in Polymeric Composites. <i>Polymers</i> , 2019, 11, 1106. | 4.5 | 16 |
| 21 | Tribological investigation of epoxy/seed particle composite obtained from residues of processing <i>Jatropha Curcas L.</i> fruits. <i>Composites Part B: Engineering</i> , 2019, 167, 654-667. | 12.0 | 16 |
| 22 | Comparison of variables influence on adhesive bonds strength calculations. <i>Manufacturing Technology</i> , 2013, 13, 205-210. | 1.4 | 16 |
| 23 | Polymeric composite based on glass powder " usage possibilities in agrocomplex. <i>Scientia Agriculturae Bohemica</i> , 2013, 44, 107-112. | 0.3 | 16 |
| 24 | Polyurethane resins filled with inorganic waste particles. <i>Manufacturing Technology</i> , 2013, 13, 241-247. | 1.4 | 13 |
| 25 | Characterization of vegetable oil as cutting fluid. <i>Procedia Manufacturing</i> , 2019, 41, 145-152. | 1.9 | 11 |
| 26 | Degradation Process in Area of Connecting Metal Sheets by Adhesive Bonding Technology in Agrocomplex. <i>Applied Mechanics and Materials</i> , 0, 616, 52-60. | 0.2 | 10 |
| 27 | Long-Term Degradation of Composites Exposed to Liquid Environments in Agriculture. <i>Scientia Agriculturae Bohemica</i> , 2014, 45, 187-192. | 0.3 | 10 |
| 28 | Recycling of corundum particles - two-body abrasive wear of polymeric composites based on waste. <i>Tehnicki Vjesnik</i> , 2015, 22, 567-572. | 0.2 | 10 |
| 29 | Analytical fluid film force calculation in the case of short bearing with a fully developed turbulent flow. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2016, 230, 395-401. | 1.8 | 10 |
| 30 | Composite based on hard-cast irons utilized on functional areas of tools in agrocomplex. <i>Scientia Agriculturae Bohemica</i> , 2013, 44, 172-177. | 0.3 | 10 |
| 31 | Quasi-Static Tests of Hybrid Adhesive Bonds Based on Biological Reinforcement in the Form of Eggshell Microparticles. <i>Polymers</i> , 2020, 12, 1391. | 4.5 | 9 |
| 32 | Effect of Fiber Orientation on the Tribological Performance of Abaca-Reinforced Epoxy Composite under Dry Contact Conditions. <i>Journal of Composites Science</i> , 2022, 6, 204. | 3.0 | 9 |
| 33 | Mechanical Characterisation of Metal/Polymeric Composite Waste/Metal Sandwich Panel. <i>Manufacturing Technology</i> , 2017, 17, 530-536. | 1.4 | 8 |
| 34 | Composite adhesive bonds reinforced with microparticle filler based on egg shell waste. <i>Journal of Physics: Conference Series</i> , 2018, 1016, 012002. | 0.4 | 7 |
| 35 | <i>Musa textilis</i> Cellulose Fibres in Biocomposites " An Investigation of Mechanical Properties and Microstructure. <i>BioResources</i> , 2018, 13, . | 1.0 | 7 |
| 36 | Short Sisal Fibers Reinforced Epoxy Resins: Tensile Strength. <i>Manufacturing Technology</i> , 2016, 16, 637-641. | 1.4 | 7 |

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|----|--|-----|-----------|
| 37 | Experimental verification of small diameter rollers utilization in construction of roller test stand in evaluation of energy loss due to rolling resistance. Measurement: Journal of the International Measurement Confederation, 2020, 152, 107287. | 5.0 | 6 |
| 38 | Research on Aluminium Alloy AlCu4Mg Surface Machined by Abrasive Water Jet. Manufacturing Technology, 2017, 17, 925-930. | 1.4 | 6 |
| 39 | Exploitation of Hazelnut (<i>Corylus avellana</i>) Shell Waste in the Form of Polymer-Particle Biocomposite. Scientia Agriculturae Bohemica, 2018, 49, 53-59. | 0.3 | 6 |
| 40 | Using Recycled Rubber Particles as Filler of Polymers. Applied Mechanics and Materials, 2014, 616, 260-267. | 0.2 | 5 |
| 41 | Possibilities of Adhesives Filling With Micro-particle Fillers - Lap-shear Tensile Strength. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2016, 64, 195-201. | 0.4 | 5 |
| 42 | Research on Application of Technology Using Water Jet on Machining of Polymeric Composite Biological-Reinforced Materials. Manufacturing Technology, 2018, 18, 630-634. | 1.4 | 5 |
| 43 | Picture Analysis of Failure Areas of Particle Composites. Manufacturing Technology, 2014, 14, 474-478. | 1.4 | 5 |
| 44 | Reliability and risk treatment centered maintenance. Journal of Mechanical Science and Technology, 2014, 28, 3963-3970. | 1.5 | 4 |
| 45 | Influence of Glass Powder Size Sorting on Properties of Composite Systems. Scientia Agriculturae Bohemica, 2016, 47, 25-31. | 0.3 | 4 |
| 46 | MECHANICAL PROPERTIES OF POLYMER COMPOSITES BASED ON BIOPARTICLES (<i>JATROPHA CURCAS L.</i>). Jurnal Teknologi (Sciences and Engineering), 2015, 76, . | 0.4 | 3 |
| 47 | Research on Influence of Loading Speed of Structural Two-component Epoxy Adhesives on Adhesive Bond Strength. Procedia Engineering, 2016, 149, 340-345. | 1.2 | 3 |
| 48 | Research on water jet cutting of composites based on epoxy/microparticles from coconut shell. MATEC Web of Conferences, 2018, 244, 02001. | 0.2 | 3 |
| 49 | Nano Particles as Lubricant Additive: A Concise Review. Lecture Notes in Mechanical Engineering, 2021, , 392-403. | 0.4 | 3 |
| 50 | Properties of Adhesives Used for Connecting in Automotive Industry. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2015, 63, 463-470. | 0.4 | 3 |
| 51 | Biocomposite Based on Epoxy Resin and <i>Jatropha curcas</i> L. Microparticles. Advanced Materials Research, 2014, 1030-1032, 446-449. | 0.3 | 2 |
| 52 | Effect of Biofuels on Quality of Engine Oil. Advanced Materials Research, 0, 1030-1032, 414-417. | 0.3 | 2 |
| 53 | Influence of Environment Temperature on Strength of Quick-Setting Adhesives Based on Cyanoacrylates. Advanced Materials Research, 0, 1030-1032, 272-275. | 0.3 | 2 |
| 54 | Adhesive properties and adhesive joints strength of graphite/epoxy composites. Journal of Physics: Conference Series, 2017, 842, 012073. | 0.4 | 2 |

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|----|--|-----|-----------|
| 55 | Quasi-static tests on polyurethane adhesive bonds reinforced by rubber powder. , 2019, , . | | 2 |
| 56 | Effect of Waterjet Machining Parameters on Cut Quality of Polymeric Composite Materials Based on Biological Reinforcement in Form of Cotton Post-harvest Line Residues. Manufacturing Technology, 2019, 19, 647-654. | 1.4 | 2 |
| 57 | Notice of Retraction Reliability and risk treatment centred maintenance. , 2013, , . | | 1 |
| 58 | Notice of Retraction Degradation process influencing safety of constructional adhesive bonds. , 2013, , . | | 1 |
| 59 | Mixture of Oil and Diesel as Fuel for Internal Combustion Engine. Advanced Materials Research, 0, 1030-1032, 1197-1200. | 0.3 | 1 |
| 60 | Compacting Technologies of Polyethyleneterephthalate Bottle. Key Engineering Materials, 0, 669, 29-35. | 0.4 | 1 |
| 61 | Dynamics of Treatment Device for Die Casting of Metals. Key Engineering Materials, 2015, 669, 327-334. | 0.4 | 1 |
| 62 | Impact Strength of Filled Polymer Materials. Materials Science Forum, 2017, 883, 46-50. | 0.3 | 1 |
| 63 | Degradation of strength properties of epoxy resin filled with natural-based particles. Journal of Physics: Conference Series, 2018, 1016, 012003. | 0.4 | 1 |
| 64 | Investigation on Polymer Composite Materials Wear Reinforced by Microparticles of Jatropha Curcas L. Waste. IOP Conference Series: Materials Science and Engineering, 2019, 638, 012011. | 0.6 | 1 |
| 65 | Dimensional Characterization of Prosthesis Bearings for Tribological Modelling. Lecture Notes in Mechanical Engineering, 2019, , 195-204. | 0.4 | 1 |
| 66 | The Effect of Aging on the Decrease in Tensile Strength of Composites with Palm Oil Kernel Shell Powder. Solid State Phenomena, 2020, 305, 18-22. | 0.3 | 1 |
| 67 | Influence of Glass Fibre Fabrics/Epoxy Hybrid Adhesive Layer on Mechanical Properties of Adhesive Bond. Lecture Notes in Electrical Engineering, 2019, , 554-560. | 0.4 | 1 |
| 68 | Abrasion of Polymeric Composites on Basis of Machining Splinters from Hardfacing Alloys - Usable in Agrocomplex. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2014, 62, 261-266. | 0.4 | 1 |
| 69 | Material Usage of Oil-Palm Empty Fruit Bunch (EFB) in Polymer Composite Systems. Manufacturing Technology, 2018, 18, 686-691. | 1.4 | 1 |
| 70 | Applications of Microscopy in Experimental Description of Glass Powder/Epoxy Systems. Manufacturing Technology, 2016, 16, 1183-1188. | 1.4 | 1 |
| 71 | THE INFLUENCE OF SELECTED FACTORS ON THE STRENGTH OF WOOD ADHESIVE JOINTS. Advances in Science and Technology Research Journal, 2018, 12, 47-54. | 0.8 | 1 |
| 72 | The Bending Properties of Sandwich Materials with Polyurethane Core. Advanced Materials Research, 2014, 1030-1032, 1019-1022. | 0.3 | 0 |

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|----|--|-----|-----------|
| 73 | Utilization of Satellite Monitoring for Maintenance Decision Making. Advanced Materials Research, 2014, 1030-1032, 1864-1867. | 0.3 | 0 |
| 74 | Influence of the Hardener Proportion on Mechanical Properties of Adhesive Bonds Used in Agriculture. Scientia Agriculturae Bohemica, 2015, 45, 265-270. | 0.3 | 0 |
| 75 | Influence of two-body abrasion and heat intensity on metal and non-metal materials used in agriculture. Research in Agricultural Engineering, 2015, 61, 40-46. | 1.0 | 0 |
| 76 | Microparticle composites on the basis of scrap utilizable in the field of agricultural production. Research in Agricultural Engineering, 2015, 61, 92-97. | 1.0 | 0 |
| 77 | Material utilization of waste originating during processing of plant <i>Jatropha curcas</i> L. In biocomposites " adhesive-cohesive characteristics and wear. Technicki Vjesnik, 2016, 23, . | 0.2 | 0 |
| 78 | Optimization of Adhesive Bonds with Particle Fillers. Materials Science Forum, 0, 883, 70-74. | 0.3 | 0 |
| 79 | Tensile Strength of Sisal/Epoxy Composites Prepared by Vacuum Infusion. Materials Science Forum, 0, 911, 95-99. | 0.3 | 0 |
| 80 | Experimental Description of Aging of Coconut Shell Powder/Epoxy Composite. Solid State Phenomena, 2019, 287, 64-68. | 0.3 | 0 |
| 81 | Experimental description of aging of palm oil kernel shell powder/epoxy composite. IOP Conference Series: Materials Science and Engineering, 2019, 617, 012009. | 0.6 | 0 |
| 82 | Research on Water Jet Cutting of Polymer Composites Based on Epoxy/Waste Fibres from Coconut Processing. Lecture Notes in Mechanical Engineering, 2019, , 45-53. | 0.4 | 0 |
| 83 | Research of Quasi-static Tests and Static Loading on Hybrid Adhesive Bonds. Lecture Notes in Mechanical Engineering, 2022, , 147-154. | 0.4 | 0 |
| 84 | THE INFLUENCE BREEDING ON THE MECHANICAL PROPERTIES OF THE HOOF HORN IN CZECH WARBLOOD HORSES. , 2015, , . | | 0 |
| 85 | ADHESIVE BOND OF CARBON STEEL S235J0: EFFECTS OF ALUMINIUM AND POLYMER POWDER FILLED EPOXY ADHESIVES ON MECHANICAL PROPERTIES. Advances in Science and Technology Research Journal, 2016, 10, 87-93. | 0.8 | 0 |
| 86 | Experimental characterization of degradation of reactive resin filled with organic microparticles. , 2017, , . | | 0 |