# Sergejs Gaidukovs

List of Publications by Year
in descending order



| 63 | 1,215 | 361296 20 | 395590 33 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 64 | 64 | 64 | 1005 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recovery processes of sustainable energy using different biomass and wastes. Renewable and Sustainable Energy Reviews, 2021, 150, 111483. | 8.2 | 93 |
| 2 | From Wood and Hemp Biomass Wastes to Sustainable Nanocellulose Foams. Industrial Crops and Products, 2021, 170, 113780. | 2.5 | 85 |
| 3 | Bio-based poly (butylene succinate): Recent progress, challenges and future opportunities. European Polymer Journal, 2021, 161, 110855. | 2.6 | 77 |
| 4 | Sustainable tetra pak recycled cellulose / Poly(Butylene succinate) based woody-like composites for a circular economy. Journal of Cleaner Production, 2020, 270, 122321. | 4.6 | 69 |
| 5 | Adding value to poly (butylene succinate) and nanofibrillated cellulose-based sustainable nanocomposites by applying masterbatch process. Industrial Crops and Products, 2021, 169, 113669. | 2.5 | 57 |
| 6 | Bio-Based Poly(butylene succinate)/Microcrystalline Cellulose/Nanofibrillated Cellulose-Based Sustainable Polymer Composites: Thermo-Mechanical and Biodegradation Studies. Polymers, 2020, 12, 1472. | 2.0 | 55 |
| 7 | Polyurethane rigid foams obtained from polyols containing bio-based and recycled components and functional additives. Industrial Crops and Products, 2017, 102, 133-143. | 2.5 | 49 |
| 8 | Structure Development in Polymers during Fused Filament Fabrication (FFF): An in Situ Small- and Wide-Angle X-ray Scattering Study Using Synchrotron Radiation. Macromolecules, 2019, 52, 9715-9723. | 2.2 | 45 |
| 9 | Thermal stability of UV-cured vegetable oil epoxidized acrylate-based polymer system for 3D printing application. Polymer Degradation and Stability, 2020, 181, 109347. | 2.7 | 42 |
| 10 | Needle-free electrospinning of nanofibrillated cellulose and graphene nanoplatelets based sustainable poly (butylene succinate) nanofibers. Materials Today Chemistry, 2020, 17, 100301. | 1.7 | 38 |
| 11 | Poly(butylene succinate) and graphene nanoplateletâ€“based sustainable functional nanocomposite materials: structure-properties relationship. Materials Today Chemistry, 2020, 18, 100351. | 1.7 | 35 |
| 12 | Highly Loaded Cellulose/Poly (butylene succinate) Sustainable Composites for Woody-Like Advanced Materials Application. Molecules, 2020, 25, 121. | 1.7 | 34 |
| 13 | UV-Light Curing of 3D Printing Inks from Vegetable Oils for Stereolithography. Polymers, 2021, 13, 1195. | 2.0 | 33 |
| 14 | Biorefinery Approach for Aerogels. Polymers, 2020, 12, 2779. | 2.0 | 31 |
| 15 | Water absorption and hydrothermal ageing of epoxy adhesives reinforced with amino-functionalized graphene oxide nanoparticles. Polymer Degradation and Stability, 2021, 191, 109670. | 2.7 | 28 |
| 16 | Durability of Biodegradable Polymer Nanocomposites. Polymers, 2021, 13, 3375. | 2.0 | 28 |
| 17 | Spent coffee waste as a renewable source for the production of sustainable poly(butylene succinate) biocomposites from a circular economy perspective. RSC Advances, 2021, 11, 18580-18589. | 1.7 | 25 |
| 18 | Characterization of Strong and Crystalline Polyvinyl Alcohol/Montmorillonite Films Prepared by Layer-by-Layer Deposition Method. International Journal of Polymer Science, 2015, 2015, 1-8. | 1.2 | 24 |

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|---|---|---|---|
| 19 | Enhanced stability of PVA electrospun fibers in water by adding cellulose nanocrystals. Holzforschung, 2015, 69, 737-743. | 0.9 | 23 |
| 20 | Enhanced mechanical, conductivity, and dielectric characteristics of ethylene vinyl acetate copolymer composite filled with carbon nanotubes. Journal of Thermoplastic Composite Materials, 2018, 31, 1161-1180. | 2.6 | 22 |
| 21 | Development of a composite with an inherent function of visualization of a mechanical action. Mechanics of Composite Materials, 2013, 49, 77-84. | 0.9 | 20 |
| 22 | UV-light-induced curing of branched epoxy novolac resin for coatings. EXPRESS Polymer Letters, 2018, 12, 918-929. | 1.1 | 20 |
| 23 | Moisture permeability of a polymer nanocomposite containing unmodified clay. Mechanics of Composite Materials, 2008, 44, 505-514. | 0.9 | 18 |
| 24 | Thermo-mechanical properties of polyurethane modified with graphite oxide and carbon nanotube particles. Integrated Ferroelectrics, 2016, 173, 1-11. | 0.3 | 18 |
| 25 | Lignin and Xylan as Interface Engineering Additives for Improved Environmental Durability of Sustainable Cellulose Nanopapers. International Journal of Molecular Sciences, 2021, 22, 12939. | 1.8 | 18 |
| 26 | A nanocomposite based on a styrene-acrylate copolymer and native montmorillonite clay 1. Preparation, testing, and properties. Mechanics of Composite Materials, 2006, 42, 45-54. | 0.9 | 16 |
| 27 | Application of amber filler for production of novel polyamide composite fiber. Textile Reseach Journal, 2016, 86, 2127-2139. | 1.1 | 16 |
| 28 | Phase transformation from rutile to anatase with oxygen ion dose in the TiO2 layer formed on a Ti substrate. Materials Science in Semiconductor Processing, 2020, 106, 104776. | 1.9 | 15 |
| 29 | A nanocomposite based on a styrene-acrylate copolymer and native montmorillonite clay 2. Modeling the elastic properties. Mechanics of Composite Materials, 2006, 42, 163-172. | 0.9 | 14 |
| 30 | Cellulose Nanocrystals vs. Cellulose Nanofibers: A Comparative Study of Reinforcing Effects in UV-Cured Vegetable Oil Nanocomposites. Nanomaterials, 2021, 11, 1791. | 1.9 | 14 |
| 31 | Preparation and Structural Properties of Free Films from Rapeseed Oil-Based Rigid Polyurethane-Montmorillonite Nanocomposites. International Journal of Polymer Science, 2013, 2013, 1-8. | 1.2 | 13 |
| 32 | Hydrothermal Ageing Effect on Reinforcement Efficiency of Nanofibrillated Cellulose/Biobased Poly(butylene succinate) Composites. Polymers, 2022, 14, 221. | 2.0 | 12 |
| 33 | Mechanical properties of a rigid polyurethane/montmorillonite composite prepared by using a biopolyol. Mechanics of Composite Materials, 2013, 49, 333-344. | 0.9 | 10 |
| 34 | Acrylation of biomass: A review of synthesis process: Know-how and future application directions. Current Opinion in Green and Sustainable Chemistry, 2022, 35, 100626. | 3.2 | 10 |
| 35 | On the Heuristic Procedure to Determine Processing Parameters in Additive Manufacturing Based on Materials Extrusion. Polymers, 2020, 12, 3009. | 2.0 | 9 |
| 36 | Dielectric Permittivity of Rigid Rapeseed Oil Polyol Polyurethane Biofoams and Petrochemical Foams at Low Frequencies. Journal of Renewable Materials, 2020, 8, 1151-1170. | 1.1 | 8 |

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|---|---|---|---|
| 37 | Simultaneous wettability and stiffness control of UV-curing vegetable oil resin composites by lignocellulosic components. Polymer, 2022, 255, 125154. | 1.8 | 8 |
| 38 | Synergy effects in dielectric and thermal properties of layered ethylene vinyl acetate composites with carbon and Fe 3 O 4 nanoparticles. Journal of Applied Polymer Science, 2020, 137, 48814. | 1.3 | 7 |
| 39 | Polytetrafluoroethylene Films in Rigid Polyurethane Foamsâ€™ Dielectric Permittivity Measurements with a One-Side Access Capacitive Sensor. Polymers, 2021, 13, 1173. | 2.0 | 7 |
| 40 | Understanding the Impact of Microcrystalline Cellulose Modification on Durability and Biodegradation of Highly Loaded Biocomposites for Woody Like Materials Applications. Journal of Polymers and the Environment, 2022, 30, 1435-1450. | 2.4 | 7 |
| 41 | Bioâ€Inspired Macromolecular Ordering of Elastomers for Enhanced Contact Electrification and Triboelectric Energy Harvesting. Advanced Materials Technologies, 2022, 7, . | 3.0 | 7 |
| 42 | Biobased Resin for Sustainable Stereolithography: 3D Printed Vegetable Oil Acrylate Reinforced with Ultra-Low Content of Nanocellulose for Fossil Resin Substitution. 3D Printing and Additive Manufacturing, 2023, 10, 1272-1286. | 1.4 | 7 |
| 43 | Nanocomposites based on a styrene-acrylate copolymer and organically modified montmorillonite 1. Mechanical properties. Mechanics of Composite Materials, 2006, 42, 263-272. | 0.9 | 6 |
| 44 | Preparation and characterization of hot-pressed Li<sup>+</sup>ion conducting PEO composite electrolytes. IOP Conference Series: Materials Science and Engineering, 2016, 111, 012016. | 0.3 | 6 |
| 45 | A nanocomposite based on a styrene-acrylate copolymer and organically modified montmorillonite 2. Barrier and thermal properties. Mechanics of Composite Materials, 2006, 42, 353-362. | 0.9 | 5 |
| 46 | Manufacturing of amber particles suitable for composite fibre melt spinning. Proceedings of the Latvian Academy of Sciences, 2016, 70, 51-57. | 0.0 | 5 |
| 47 | Synergistic Effect of Halloysite Nanotube and Nanocellulose on Thermal and Mechanical Properties of Poly (Ethylmethacrylate-co-Acrylonitrile) Bionanocomposites. Journal of Renewable Materials, 2020, 8, 301-317. | 1.1 | 5 |
| 48 | Sustainable Wax Coatings Made from Pine Needle Extraction Waste for Nanopaper Hydrophobization. Membranes, 2022, 12, 537. | 1.4 | 5 |
| 49 | Microwave Synthesis Of Polyols For Urethane Materials. IOP Conference Series: Materials Science and Engineering, 2016, 111, 012015. | 0.3 | 2 |
| 50 | Thermal properties of polylactide / recycled lignin and cellulose filler biocomposites. IOP Conference Series: Materials Science and Engineering, 2019, 500, 012031. | 0.3 | 2 |
| 51 | Finite Element Simulation of Indentation Experiment on Branched Epoxy Novolac Resin. IOP Conference Series: Materials Science and Engineering, 2019, 500, 012006. | 0.3 | 2 |
| 52 | Effects of ionic liquids and dual curing on vat photopolymerization process and properties of 3d-printed ionogels. Additive Manufacturing, 2022, 56, 102895. | 1.7 | 2 |
| 53 | Influence of Nanoclay Additive on Mechanical Properties of Bio-Based Polyurethane Nanocomposites. Key Engineering Materials, 2013, 559, 37-42. | 0.4 | 1 |
| 54 | Effect of Low-Content of Graphene and Carbon Nanotubes on Dielectric Properties of Polyethylene Oxide Solid Composite Electrolyte. Key Engineering Materials, 2016, 721, 18-22. | 0.4 | 1 |

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| 55 | On PEO-Based MWCNT and Graphene Composite Electrolyte Structure. Key Engineering Materials, 0, 762, 209-214. | 0.4 | 1 |
| 56 | Viscoelastic and Thermal Properties of Polyurethane Foams Obtained from Renewable and Recyclable Components. Journal of Renewable Materials, 2018, , . | 1.1 | 1 |
| 57 | Dielectric Properties of Ethylene Vinyl Acetate Copolymer Composites Filled with Carbon Nanotubes, Graphene Nanoplatelets and Iron Oxide Nanoparticles. Key Engineering Materials, 2019, 800, 195-199. | 0.4 | 1 |
| 58 | Producing of concrete by using a dolomite waste as an alternative filler. Ã‰pÃ‡Å‘anyag: Journal of Silicate Based and Composite Materials, 2009, 61, 44-47. | 0.0 | 1 |
| 59 | Synthesis of Photoactive Compounds from Tall Oil Fatty Acids. Journal of Renewable Materials, 2020, 8, 1077-1089. | 1.1 | 1 |
| 60 | Clean Manufacturing of Cellulose Nanopapers by Incorporating Lignin and Xylan as Sustainable Additives. Carbohydrate Polymer Technologies and Applications, 2022, , 100207. | 1.6 | 1 |
| 61 | Preparation and mechanical properties of intercalated PP/OMMT nanocomposites. Journal of Physics: Conference Series, 2007, 93, 012030. | 0.3 | 0 |
| 62 | Structure and Mechanical Properties of Melt Intercalated Po1lypropyleneâ€“Organomontmorillonite Nanocomposites. Composite Interfaces, 2010, 17, 705-715. | 1.3 | 0 |
| 63 | Comparison of mechanical properties of multi-walled carbon nanotube and graphene nanosheet/polyethylene oxide composites plasticized with lithium triflate. IOP Conference Series: Materials Science and Engineering, 2017, 251, 012077. | 0.3 | 0 |