# Christoph Unterweger

List of Publications by Year
in descending order



| 34 | 745 | 623188 14 | 552369 26 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 34 | 34 | 34 | 852 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synthetic fibers and thermoplastic short-fiber-reinforced polymers: Properties and characterization. Polymer Composites, 2014, 35, 227-236. | 2.3 | 111 |
| 2 | Characterization of carbon fiber surfaces and their impact on the mechanical properties of short carbon fiber reinforced polypropylene composites. Composites Science and Technology, 2015, 108, 41-47. | 3.8 | 111 |
| 3 | Effects of different fibers on the properties of short-fiber-reinforced polypropylene composites. Composites Science and Technology, 2014, 103, 49-55. | 3.8 | 67 |
| 4 | Impact of fiber length and fiber content on the mechanical properties and electrical conductivity of short carbon fiber reinforced polypropylene composites. Composites Science and Technology, 2020, 188, 107998. | 3.8 | 40 |
| 5 | Electrochemical properties of lignin/polypyrrole composites and their carbonized analogues. Materials Chemistry and Physics, 2018, 213, 352-361. | 2.0 | 35 |
| 6 | Lignin-based multiwall carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2019, 121, 175-179. | 3.8 | 32 |
| 7 | Comparison of four technical lignins as a resource for electrically conductive carbon particles. BioResources, 2019, 14, 1091-1109. | 0.5 | 31 |
| 8 | Investigation on the thermo-oxidative stability of carbon fiber sizings for application in thermoplastic composites. Polymer Degradation and Stability, 2016, 125, 33-42. | 2.7 | 30 |
| 9 | Tailoring of carbonized polypyrrole nanotubes core by different polypyrrole shells for oxygen reduction reaction selectivity modification. Journal of Colloid and Interface Science, 2019, 551, 184-194. | 5.0 | 27 |
| 10 | Polyaniline-metal organic framework (Fe-BTC) composite for electrochemical applications. Polymer, 2020, 208, 122945. | 1.8 | 22 |
| 11 | Highly conducting 1-D polypyrrole prepared in the presence of safranin. Journal of Materials Chemistry C, 2020, 8, 12140-12147. | 2.7 | 22 |
| 12 | Electrically Conducting Carbon Microparticles by Direct Carbonization of Spent Wood Pulping Liquor. ACS Sustainable Chemistry and Engineering, 2018, 6, 3385-3391. | 3.2 | 18 |
| 13 | Viscoseâ€based porous carbon fibers: improving yield and porosity through optimization of the carbonization process by design of experiment. Journal of Porous Materials, 2021, 28, 727-739. | 1.3 | 17 |
| 14 | Determination of the surface chemistry of ozone-treated carbon fibers by highly consistent evaluation of X-ray photoelectron spectra. Carbon, 2019, 146, 97-105. | 5.4 | 17 |
| 15 | Increasing the Impact Toughness of Cellulose Fiber Reinforced Polypropylene Compositesâ€"Influence of Different Impact Modifiers and Production Scales. Journal of Composites Science, 2019, 3, 82. | 1.4 | 15 |
| 16 | Carbon Microparticles from Organosolv Lignin as Filler for Conducting Poly(Lactic Acid). Polymers, 2016, 8, 205. | 2.0 | 14 |
| 17 | Supercapacitor Electrodes from Viscose-Based Activated Carbon Fibers: Significant Yield and Performance Improvement Using Diammonium Hydrogen Phosphate as Impregnating Agent. Journal of Carbon Research, 2020, 6, 17. | 1.4 | 14 |
| 18 | Sponge-like polypyrroleâ€“nanofibrillated cellulose aerogels: synthesis and application. Journal of Materials Chemistry C, 2021, 9, 12615-12623. | 2.7 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Novel protocol for highly efficient gas-phase chemical derivatization of surface amine groups using trifluoroacetic anhydride. Applied Surface Science, 2018, 443, 244-254. | 3.1 | 10 |
| 20 | Improvements in the carbonisation of viscose fibres. Reinforced Plastics, 2019, 63, 146-150. | 0.5 | 10 |
| 21 | Structure and electrical resistivity of individual carbonised natural and man-made cellulose fibres. Journal of Materials Science, 2020, 55, 10271-10280. | 1.7 | 10 |
| 22 | Enhancement of conductivity, mechanical and biological properties of polyaniline-poly(N-vinylpyrrolidone) cryogels by phytic acid. Polymer, 2021, 217, 123450. | 1.8 | 9 |
| 23 | Viscose-derived activated carbons as adsorbents for malathion, dimethoate, and chlorpyrifosâ€"screening, trends, and analysis. Environmental Science and Pollution Research, 2022, 29, 35138-35149. | 2.7 | 9 |
| 24 | Pore Development during the Carbonization Process of Lignin Microparticles Investigated by Small Angle X-ray Scattering. Molecules, 2021, 26, 2087. | 1.7 | 8 |
| 25 | Viscose-Derived Activated Carbons Fibers as Highly Efficient Adsorbents for Dimethoate Removal from Water. Molecules, 2022, 27, 1477. | 1.7 | 8 |
| 26 | Electrically-Conductive Sub-Micron Carbon Particles from Lignin: Elucidation of Nanostructure and Use as Filler in Cellulose Nanopapers. Nanomaterials, 2018, 8, 1055. | 1.9 | 7 |
| 27 | Influence of the carbonization temperature on the properties of carbon fibers based on technical softwood kraft lignin blends. Carbon Trends, 2021, 5, 100094. | 1.4 | 7 |
| 28 | Effect of initial freezing temperature and comonomer concentration on the properties of poly(aniline-co-m-phenylenediamine) cryogels supported by poly(vinyl alcohol). Colloid and Polymer Science, 2020, 298, 293-301. | 1.0 | 6 |
| 29 | Biomass-Derived Carbons as Versatile Materials for Energy-Related Applications: Capacitive Properties vs. Oxygen Reduction Reaction Catalysis. Journal of Carbon Research, 2021, 7, 55. | 1.4 | 6 |
| 30 | Thermo-mechanical properties of Î²-nucleated polypropylene multilayers. Polymer Testing, 2014, 39, 79-85. | 2.3 | 5 |
| 31 | Comparative Behavior of Viscose-Based Supercapacitor Electrodes Activated by KOH, H2O, and CO2. Nanomaterials, 2022, 12, 677. | 1.9 | 5 |
| 32 | Screening of spinning oils for meltâ€spun ligninâ€based carbon fiber precursors. Journal of Applied Polymer Science, 0, , 52134. | 1.3 | 4 |
| 33 | Development of a method for vapour phase trimethylsilylation of surface hydroxyl groups. Surfaces and Interfaces, 2021, 23, 100957. | 1.5 | 2 |
| 34 | Macroporous nitrogen-containing carbon for electrochemical capacitors. Electrochimica Acta, 2022, 418, 140370. | 2.6 | 2 |