

# David Blanco

## List of Publications by Year in descending order

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45  
papers

1,603  
citations

331259

21  
h-index

301761

39  
g-index

45  
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45  
docs citations

45  
times ranked

1506  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Methyltrioctylammonium Octadecanoate as Lubricant Additive to Different Base Oils. <i>Lubricants</i> , 2022, 10, 128.   | 1.2 | 2         |
| 2  | Long-term thermal stability of fatty acid anion-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 328, 115492.   | 2.3 | 8         |
| 3  | Viscoelastic Behaviour of Flexible Thermoplastic Polyurethane Additively Manufactured Parts: Influence of Inner-Structure Design Factors. <i>Polymers</i> , 2021, 13, 2365.   | 2.0 | 4         |
| 4  | Friction, Wear and Corrosion Behavior of Environmentally-Friendly Fatty Acid Ionic Liquids. <i>Coatings</i> , 2021, 11, 21.   | 1.2 | 3         |
| 5  | The Influence of Image Processing and Layer-to-Background Contrast on the Reliability of Flatbed Scanner-Based Characterisation of Additively Manufactured Layer Contours. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 178. | 1.3 | 5         |
| 6  | Layer Contour Verification in Additive Manufacturing by Means of Commercial Flatbed Scanners. <i>Sensors</i> , 2020, 20, 1.   | 2.1 | 309       |
| 7  | Evaluation of a modified halo flowing atmospheric pressure afterglow ion source for the analysis of directly injected volatile organic compounds. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2002-2010.         | 1.6 | 4         |
| 8  | Two fatty acid anion-based ionic liquids - part II: Effectiveness as an additive to a polyol ester. <i>Journal of Molecular Liquids</i> , 2020, 310, 113158.  | 2.3 | 12        |
| 9  | Two fatty acid anion-based ionic liquids - part I: Physicochemical properties and tribological behavior as neat lubricants. <i>Journal of Molecular Liquids</i> , 2020, 305, 112827.  | 2.3 | 21        |
| 10 | Relationships between the physical properties and biodegradability and bacteria toxicity of fatty acid-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 292, 111451.  | 2.3 | 28        |
| 11 | Tribological behavior of three fatty acid ionic liquids in the lubrication of different material pairs. <i>Journal of Molecular Liquids</i> , 2019, 296, 111858.  | 2.3 | 15        |
| 12 | Tribological performance of three fatty acid anion-based ionic liquids (FAILs) used as lubricant additive. <i>Journal of Molecular Liquids</i> , 2019, 296, 111881.   | 2.3 | 23        |
| 13 | Novel fatty acid anion-based ionic liquids: Contact angle, surface tension, polarity fraction and spreading parameter. <i>Journal of Molecular Liquids</i> , 2019, 288, 110995.   | 2.3 | 38        |
| 14 | Physicochemical, traction and tribofilm formation properties of three octanoate-, laurate- and palmitate-anion based ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 284, 639-646.                                     | 2.3 | 29        |
| 15 | Dimensional and Geometrical Quality Enhancement in Additively Manufactured Parts: Systematic Framework and A Case Study. <i>Materials</i> , 2019, 12, 3937.   | 1.3 | 5         |
| 16 | Tribological performance of tributylmethylammonium bis(trifluoromethylsulfonyl)amide as neat lubricant and as an additive in a polar oil. <i>Friction</i> , 2019, 7, 282-288.   | 3.4 | 15        |
| 17 | Lubrication Properties of the Ionic Liquid Dodecyl-3 Methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Tribology Letters</i> , 2018, 66, 1.   | 1.2 | 10        |
| 18 | Environmental properties of phosphonium, imidazolium and ammonium cation-based ionic liquids as potential lubricant additives. <i>Journal of Molecular Liquids</i> , 2018, 272, 937-947.  | 2.3 | 40        |

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|----|---|-----|-----------|
| 19 | A novel gas sampling introduction interface for fast analysis of volatile organic compounds using radiofrequency pulsed glow discharge time of flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2018, 1038, 59-66.                     | 2.6 | 6         |
| 20 | Two phosphonium cation-based ionic liquids used as lubricant additive. Part II: Tribofilm analysis and friction torque loss in cylindrical roller thrust bearings at constant temperature. <i>Tribology International</i> , 2017, 109, 496-504. | 3.0 | 24        |
| 21 | Antifriction and Antiwear Properties of an Ionic Liquid with Fluorine-Containing Anion Used as Lubricant Additive. <i>Tribology Letters</i> , 2017, 65, 1.  | 1.2 | 28        |
| 22 | Isoconversional kinetic analysis applied to five phosphonium cation-based ionic liquids. <i>Thermochimica Acta</i> , 2017, 648, 62-74.  | 1.2 | 14        |
| 23 | Model-free kinetics applied to evaluate the long-term thermal stability of three [NTf <sub>2</sub> ] anion-based ionic liquids. <i>Thermochimica Acta</i> , 2017, 656, 70-84.   | 1.2 | 17        |
| 24 | Lubrication performance of an ammonium cation-based ionic liquid used as an additive in a polar oil. <i>Tribology International</i> , 2017, 116, 422-430.   | 3.0 | 33        |
| 25 | Tribological Behaviour of PVD Coatings Lubricated with a FAP <sup>+</sup> Anion-Based Ionic Liquid Used as an Additive. <i>Lubricants</i> , 2016, 4, 8.   | 1.2 | 15        |
| 26 | Life cycle assessment of introducing an anaerobic digester in a municipal wastewater treatment plant in Spain. <i>Water Science and Technology</i> , 2016, 73, 835-842.   | 1.2 | 12        |
| 27 | Friction, wear and tribofilm formation with a [NTf <sub>2</sub> ] anion-based ionic liquid as neat lubricant. <i>Tribology International</i> , 2016, 103, 73-86.  | 3.0 | 24        |
| 28 | Wettability and corrosion of [NTf <sub>2</sub> ] anion-based ionic liquids on steel and PVD (TiN, CrN, ZrN) coatings. <i>Surface and Coatings Technology</i> , 2016, 302, 13-21.  | 2.2 | 39        |
| 29 | Wetting Properties of Seven Phosphonium Cation-Based Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 9594-9602.   | 1.8 | 22        |
| 30 | Phosphonium cation-based ionic liquids as neat lubricants: Physicochemical and tribological performance. <i>Tribology International</i> , 2016, 95, 118-131.  | 3.0 | 98        |
| 31 | Effectiveness of phosphonium cation-based ionic liquids as lubricant additive. <i>Tribology International</i> , 2016, 98, 82-93.  | 3.0 | 71        |
| 32 | Nonisotropic experimental characterization of the relaxation modulus for PolyJet manufactured parts. <i>Journal of Materials Research</i> , 2014, 29, 1876-1882.  | 1.2 | 56        |
| 33 | Influence of Surface Position along the Working Range of Conoscopic Holography Sensors on Dimensional Verification of AISI 316 Wire EDM Machined Surfaces. <i>Sensors</i> , 2014, 14, 4495-4512.  | 2.1 | 11        |
| 34 | Integration of a conoscopic holography sensor on a CMM. , 2012, , .   |     | 9         |
| 35 | Lubrication of CrN Coating With Ethyl-Dimethyl-2-Methoxyethylammonium Tris(pentafluoroethyl)trifluorophosphate Ionic Liquid as Additive to PAO 6. <i>Tribology Letters</i> , 2011, 41, 295-302.   | 1.2 | 57        |
| 36 | Use of ethyl-dimethyl-2-methoxyethylammonium tris(pentafluoroethyl)trifluorophosphate as base oil additive in the lubrication of TiN PVD coating. <i>Tribology International</i> , 2011, 44, 645-650.   | 3.0 | 65        |

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|----|---|-----|-----------|
| 37 | Lubrication of TiN, CrN and DLC PVD Coatings with 1-Butyl-1-Methylpyrrolidinium tris(pentafluoroethyl)trifluorophosphate. Tribology Letters, 2010, 40, 269-277. | 1.2 | 77        |
| 38 | Friction reduction properties of a CuO nanolubricant used as lubricant for a NiCrBSi coating. Wear, 2010, 268, 325-328.   | 1.5 | 159       |
| 39 | Models for stiffness characterization of the spindle-chuck system in a CNC lathe for prediction of deflections in CAPP. , 2010, , .                             |     | 1         |
| 40 | Influence of surface material on the quality of laser triangulation digitized point clouds for reverse engineering tasks. , 2009, , .                           |     | 12        |
| 41 | Influence Of Ambient Light On The Repeatability Of Laser Triangulation Digitized Point Clouds When Scanning EN AW 6082 Flat Faced Features. , 2009, , .         |     | 2         |
| 42 | Influence of roughness on surface scanning by means of a laser stripe system. International Journal of Advanced Manufacturing Technology, 2009, 43, 1157-1166.  | 1.5 | 35        |
| 43 | Tribological behaviour of two imidazolium ionic liquids as lubricant additives for steel/steel contacts. Wear, 2009, 266, 1224-1228.                            | 1.5 | 133       |
| 44 | Methodology for set-up planning automation of turned parts. International Journal of Production Research, 2007, 45, 3917-3947.                                  | 4.9 | 7         |
| 45 | CAPILLARY ZONE ELECTROPHORETIC SEPARATION OF PROTEINS USING COATED CAPILLARIES. Journal of Liquid Chromatography and Related Technologies, 2002, 25, 1171-1185. | 0.5 | 5         |