

David Blanco

List of Publications by Year in descending order

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45
papers

1,603
citations

331259

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301761

39
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45
all docs

45
docs citations

45
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer Contour Verification in Additive Manufacturing by Means of Commercial Flatbed Scanners. Sensors, 2020, 20, 1.	2.1	309
2	Friction reduction properties of a CuO nanolubricant used as lubricant for a NiCrBSi coating. Wear, 2010, 268, 325-328.	1.5	159
3	Tribological behaviour of two imidazolium ionic liquids as lubricant additives for steel/steel contacts. Wear, 2009, 266, 1224-1228.	1.5	133
4	Phosphonium cation-based ionic liquids as neat lubricants: Physicochemical and tribological performance. Tribology International, 2016, 95, 118-131.	3.0	98
5	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
6	Effectiveness of phosphonium cation-based ionic liquids as lubricant additive. Tribology International, 2016, 98, 82-93.	3.0	71
7	Use of ethyl-dimethyl-2-methoxyethylammonium tris(pentafluoroethyl)trifluorophosphate as base oil additive in the lubrication of TiN PVD coating. Tribology International, 2011, 44, 645-650.	3.0	65
8	Lubrication of CrN Coating With Ethyl-Dimethyl-2-Methoxyethylammonium Tris(pentafluoroethyl)Trifluorophosphate Ionic Liquid as Additive to PAO 6. Tribology Letters, 2011, 41, 295-302.	1.2	57
9	Nonisotropic experimental characterization of the relaxation modulus for PolyJet manufactured parts. Journal of Materials Research, 2014, 29, 1876-1882.	1.2	56
10	Environmental properties of phosphonium, imidazolium and ammonium cation-based ionic liquids as potential lubricant additives. Journal of Molecular Liquids, 2018, 272, 937-947.	2.3	40
11	Wettability and corrosion of [NTf ₂] anion-based ionic liquids on steel and PVD (TiN, CrN, ZrN) coatings. Surface and Coatings Technology, 2016, 302, 13-21.	2.2	39
12	Novel fatty acid anion-based ionic liquids: Contact angle, surface tension, polarity fraction and spreading parameter. Journal of Molecular Liquids, 2019, 288, 110995.	2.3	38
13	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
14	Lubrication performance of an ammonium cation-based ionic liquid used as an additive in a polar oil. Tribology International, 2017, 116, 422-430.	3.0	33
15	Physicochemical, traction and tribofilm formation properties of three octanoate-, laurate- and palmitate-anion based ionic liquids. Journal of Molecular Liquids, 2019, 284, 639-646.	2.3	29
16	Antifriction and Antiwear Properties of an Ionic Liquid with Fluorine-Containing Anion Used as Lubricant Additive. Tribology Letters, 2017, 65, 1.	1.2	28
17	Relationships between the physical properties and biodegradability and bacteria toxicity of fatty acid-based ionic liquids. Journal of Molecular Liquids, 2019, 292, 111451.	2.3	28
18	Friction, wear and tribofilm formation with a [NTf ₂] anion-based ionic liquid as neat lubricant. Tribology International, 2016, 103, 73-86.	3.0	24

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Wetting Properties of Seven Phosphonium Cation-Based Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9594-9602.	1.8	22
22	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
23	Model-free kinetics applied to evaluate the long-term thermal stability of three [NTf ₂] anion-based ionic liquids. <i>Thermochimica Acta</i> , 2017, 656, 70-84.	1.2	17
24	Tribological Behaviour of PVD Coatings Lubricated with a FAP ⁺ Anion-Based Ionic Liquid Used as an Additive. <i>Lubricants</i> , 2016, 4, 8.	1.2	15
25	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
26	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
27	Isoconversional kinetic analysis applied to five phosphonium cation-based ionic liquids. <i>Thermochimica Acta</i> , 2017, 648, 62-74.	1.2	14
28	Influence of surface material on the quality of laser triangulation digitized point clouds for reverse engineering tasks. , 2009, , .		12
29	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
30	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
31	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
32	Lubrication Properties of the Ionic Liquid Dodecyl-3 Methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	10
33	Integration of a conoscopic holography sensor on a CMM. , 2012, , .		9
34	Long-term thermal stability of fatty acid anion-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 328, 115492.	2.3	8
35	Methodology for set-up planning automation of turned parts. <i>International Journal of Production Research</i> , 2007, 45, 3917-3947.	4.9	7
36	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

#	ARTICLE	IF	CITATIONS
37	CAPILLARY ZONE ELECTROPHORETIC SEPARATION OF PROTEINS USING COATED CAPILLARIES. Journal of Liquid Chromatography and Related Technologies, 2002, 25, 1171-1185.	0.5	5
38	Dimensional and Geometrical Quality Enhancement in Additively Manufactured Parts: Systematic Framework and A Case Study. Materials, 2019, 12, 3937.	1.3	5
39	The Influence of Image Processing and Layer-to-Background Contrast on the Reliability of Flatbed Scanner-Based Characterisation of Additively Manufactured Layer Contours. Applied Sciences (Switzerland), 2021, 11, 178.	1.3	5
40	Evaluation of a modified halo flowing atmospheric pressure afterglow ion source for the analysis of directly injected volatile organic compounds. Journal of Analytical Atomic Spectrometry, 2020, 35, 2002-2010.	1.6	4
41	Viscoelastic Behaviour of Flexible Thermoplastic Polyurethane Additively Manufactured Parts: Influence of Inner-Structure Design Factors. Polymers, 2021, 13, 2365.	2.0	4
42	Friction, Wear and Corrosion Behavior of Environmentally-Friendly Fatty Acid Ionic Liquids. Coatings, 2021, 11, 21.	1.2	3
43	Influence Of Ambient Light On The Repeatability Of Laser Triangulation Digitized Point Clouds When Scanning EN AW 6082 Flat Faced Features. , 2009, , .		2
44	Methyltrioctylammonium Octadecanoate as Lubricant Additive to Different Base Oils. Lubricants, 2022, 10, 128.	1.2	2
45	Models for stiffness characterization of the spindle-chuck system in a CNC lathe for prediction of deflections in CAPP. , 2010, , .		1