RubÃ©n GonzÃ¡lez

List of Publications by Year
in descending order

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60 papers	3,007 citations	185998 28 h-index	161609 54 g-index
61 all docs	61 docs citations	61 times ranked	2035 citing authors

#	Article	IF	Citations
1	CuO, ZrO2 and ZnO nanoparticles as antiwear additive in oil lubricants. Wear, 2008, 265, 422-428.	1.5	575
2	Effect of actual WC content on the reciprocating wear of a laser cladding NiCrBSi alloy reinforced with WC. Wear, 2015, 324-325, 80-89.	1.5	174
3	Friction reduction properties of a CuO nanolubricant used as lubricant for a NiCrBSi coating. Wear, 2010, 268, 325-328.	1.5	159
4	Wear behaviour of flame sprayed NiCrBSi coating remelted by flame or by laser. Wear, 2007, 262, 301-307.	1.5	147
5	Wear behaviour of laser clad NiCrBSi coating. Wear, 2005, 259, 870-875.	1.5	145
6	Tribological behaviour of two imidazolium ionic liquids as lubricant additives for steel/steel contacts. Wear, 2009, 266, 1224-1228.	1.5	133
7	Microstructural study of NiCrBSi coatings obtained by different processes. Wear, 2007, 263, 619-624.	1.5	117
8	Antiwear properties of carbon-coated copper nanoparticles used as an additive to a polyalphaolefin. Tribology International, 2011, 44, 829-833.	3.0	110
9	Wear prevention behaviour of nanoparticle suspension under extreme pressure conditions. Wear, 2007, 263, 1568-1574.	1.5	106
10	Phosphonium cation-based ionic liquids as neat lubricants: Physicochemical and tribological performance. Tribology International, 2016, 95, 118-131.	3.0	98
11	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
12	Effectiveness of phosphonium cation-based ionic liquids as lubricant additive. Tribology International, 2016, 98, 82-93.	3.0	71
13	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
14	Tribological behavior of laser-textured NiCrBSi coatings. Wear, 2011, 271, 925-933.	1.5	64
15	Ionic liquids as an additive in fully formulated wind turbine gearbox oils. Wear, 2015, 328-329, 50-63.	1.5	60
16	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
17	Ionic liquids as a neat lubricant applied to steelâ€“steel contacts. Tribology International, 2014, 72, 42-50.	3.0	52
18	Lubrication of DLC Coatings with Two Tris(pentafluoroethyl)trifluorophosphate Anion-Based Ionic Liquids. Tribology Transactions, 2013, 56, 887-895.	1.1	50

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19	Assessing boundary film formation of lubricant additivised with 1-hexyl-3-methylimidazolium tetrafluoroborate using ECR as qualitative indicator. Wear, 2010, 269, 112-117.	1.5	49
20	FAPâ^' Anion Ionic Liquids Used in the Lubrication of a Steelâ€"Steel Contact. Tribology Letters, 2013, 52, 431-437.	1.2	49
21	Torque loss and wear of FZG gears lubricated with wind turbine gear oils using an ionic liquid as additive. Tribology International, 2015, 90, 306-314.	3.0	48
22	Two phosphonium cation-based ionic liquids used as lubricant additive. Tribology International, 2017, 107, 233-239.	3.0	43
23	Wettability and corrosion of [NTf2] anion-based ionic liquids on steel and PVD (TiN, CrN, ZrN) coatings. Surface and Coatings Technology, 2016, 302, 13-21.	2.2	39
24	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
25	Lubrication of PVD coatings with ethyl-dimethyl-2-methoxyethylammonium tris(pentafluoroethyl)trifluorophosphate. Tribology International, 2013, 58, 71-78.	3.0	37
26	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
27	Study of the Sliding Wear and Friction Behavior of WCÂ+ÂNiCrBSi Laser Cladding Coatings as a Function of Actual Concentration of WC Reinforcement Particles in Ball-on-Disk Test. Tribology Letters, 2016, 63, 1.	1.2	32
28	Two phosphonium cation-based ionic liquids as lubricant additive to a polyalphaolefin base oil. Journal of Molecular Liquids, 2019, 293, 111536.	2.3	31
29	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
30	Antifriction and Antiwear Properties of an Ionic Liquid with Fluorine-Containing Anion Used as Lubricant Additive. Tribology Letters, 2017, 65, 1.	1.2	28
31	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
32	Friction, wear and tribofilm formation with a [NTf2] anion-based ionic liquid as neat lubricant. Tribology International, 2016, 103, 73-86.	3.0	24
33	Tribological performance of three fatty acid anion-based ionic liquids (FAILs) used as lubricant additive. Journal of Molecular Liquids, 2019, 296, 111881.	2.3	23
34	Wetting Properties of Seven Phosphonium Cation-Based Ionic Liquids. Industrial & Engineering Chemistry Research, 2016, 55, 9594-9602.	1.8	22
35	Two fatty acid anion-based ionic liquids - part I: Physicochemical properties and tribological behavior as neat lubricants. Journal of Molecular Liquids, 2020, 305, 112827.	2.3	21
36	Effect of Shear Rate, Temperature, and Particle Concentration on the Rheological Properties of ZnO and ZrO₂Nanofluids. Tribology Transactions, 2014, 57, 489-495.	1.1	20

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37	Use of optical profilometry in the ASTM D4172 standard. Wear, 2011, 271, 2963-2967.	1.5	16
38	Tribological behavior of three fatty acid ionic liquids in the lubrication of different material pairs. Journal of Molecular Liquids, 2019, 296, 111858.	2.3	15
39	Tribological performance of tributylmethylammonium bis(trifluoromethylsulfonyl)amide as neat lubricant and as an additive in a polar oil. Friction, 2019, 7, 282-288.	3.4	15
40	Isoconversional kinetic analysis applied to five phosphonium cation-based ionic liquids. Thermochimica Acta, 2017, 648, 62-74.	1.2	14
41	Two fatty acid anion-based ionic liquids - part II: Effectiveness as an additive to a polyol ester. Journal of Molecular Liquids, 2020, 310, 113158.	2.3	12
42	Greases additised with phosphonium-based ionic liquids - Part I: Rheology, lubricant film thickness and Stribeck curves. Tribology International, 2021, 156, 106851.	3.0	11
43	Lubrication Properties of the Ionic Liquid Dodecyl-3 Methylimidazolium bis(trifluoromethylsulfonyl)imide. Tribology Letters, 2018, 66, 1.	1.2	10
44	Corrosion activity and solubility in polar oils of three bis(trifluoromethylsulfonyl) imide/bis(trifluoromethylsulfonyl) amide ([NTF 2]) anion-based ionic liquids. Journal of Industrial and Engineering Chemistry, 2017, 56, 292-298.	2.9	9
45	Long-term thermal stability of fatty acid anion-based ionic liquids. Journal of Molecular Liquids, 2021, 328, 115492.	2.3	8
46	NiCrBSi coatings textured by Nd-YAG laser. International Journal of Surface Science and Engineering, 2011, 5, 75.	0.4	6
47	Assessing Boundary Film Forming Behavior of Phosphonium Ionic Liquids as Engine Lubricant Additives. Lubricants, 2016, 4, 17.	1.2	6
48	Miscibility, corrosion and environmental properties of six hexanoate- and sulfonate-based protic ionic liquids. Journal of Molecular Liquids, 2021, 322, 114561.	2.3	6
49	Tribological behaviour of microalloyed and conventional Câ€“Mn rail steels in a pure sliding condition. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 2201-2214.	1.3	4
50	Influence of environmental conditions and oxidation on the coefficient of friction using microalloyed rail steels. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 353-360.	1.3	4
51	Thermal stability, traction and tribofilm formation of three fatty acid-derived ionic liquids. Tribology International, 2021, 154, 106712.	3.0	3
52	Friction, Wear and Corrosion Behavior of Environmentally-Friendly Fatty Acid Ionic Liquids. Coatings, 2021, 11, 21.	1.2	3
53	Viscosity and Tribology of Copper Oxide Nanofluids. , 2008, , .		2
54	Methyltrioctylammonium Octadecanoate as Lubricant Additive to Different Base Oils. Lubricants, 2022, 10, 128.	1.2	2

#	Article	IF	Citations
55	Microstructure of NiCrBSi Laser Cladding Coatings Textured by Nd-YAG Laser. , 2011, , .		1
56	Ionic-liquid lubrication of a nickel-based coating reinforced with tungsten carbide particles. Journal of Molecular Liquids, 2019, 293, 111498.	2.3	1
57	Tribological behavior of oils additised with a phosphonium-derived ionic liquid compared to a commercial oil. Industrial Lubrication and Tribology, 2021, 73, 137-144.	0.6	1
58	Lubrication of DLC and TiN Coatings With Two Ionic Liquids Used as Neat Lubricant and Oil Additive. , 2011, , .		1
59	1-Hexyl-3-Methylimidazolium Hexafluorophosphate as Oil Additive for the Lubrication of Steel-Steel Contacts and its Influence on the Running-In and Wear-In Periods. , 2011, , .		0
60	Non-Uniform Behavior of Lubricant Flow According to Surface Texturing Distribution. , 2012, , .		0