

Francisco J Carrion-Vilches

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

2,564
citations

25
h-index

50
g-index

58
ext. papers

2,750
ext. citations

3.9
avg, IF

4.94
L-index

#	Paper	IF	Citations
57	Ionic liquids as advanced lubricant fluids. <i>Molecules</i> , 2009 , 14, 2888-908	4.8	476
56	1-N-alkyl -3-methylimidazolium ionic liquids as neat lubricants and lubricant additives in steel/aluminium contacts. <i>Wear</i> , 2006 , 260, 766-782	3.5	288
55	Room temperature ionic liquids as lubricant additives in steel/aluminium contacts: Influence of sliding velocity, normal load and temperature. <i>Wear</i> , 2006 , 261, 347-359	3.5	205
54	Ionic liquids as lubricants of polystyrene and polyamide 6-steel contacts. Preparation and properties of new polymer-ionic liquid dispersions. <i>Tribology Letters</i> , 2006 , 21, 121-133	2.8	111
53	Erosion/corrosion of stainless steels, titanium, tantalum and zirconium. <i>Wear</i> , 2005 , 258, 693-700	3.5	111
52	Effect of the addition of room temperature ionic liquid and ZnO nanoparticles on the wear and scratch resistance of epoxy resin. <i>Wear</i> , 2010 , 268, 1295-1302	3.5	93
51	Friction and wear of aluminium/steel contacts lubricated with ordered fluids-neutral and ionic liquid crystals as oil additives. <i>Wear</i> , 2004 , 256, 386-392	3.5	81
50	Influence of ZnO nanoparticle filler on the properties and wear resistance of polycarbonate. <i>Wear</i> , 2007 , 262, 1504-1510	3.5	70
49	Liquid crystals in tribology. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 4102-15	6.3	66
48	Synergy between graphene and ionic liquid lubricant additives. <i>Tribology International</i> , 2017 , 116, 371-382	4.9	63
47	Single-walled carbon nanotubes modified by ionic liquid as antiwear additives of thermoplastics. <i>Composites Science and Technology</i> , 2010 , 70, 2160-2167	8.6	55
46	Dry and lubricated wear resistance of mechanically-alloyed aluminium-base sintered composites. <i>Wear</i> , 2001 , 248, 178-186	3.5	52
45	Physical and tribological properties of a new polycarbonate-organoclay nanocomposite. <i>European Polymer Journal</i> , 2008 , 44, 968-977	5.2	51
44	Influence of temperature on PA 6/steel contacts in the presence of an ionic liquid lubricant. <i>Wear</i> , 2007 , 263, 658-662	3.5	43
43	New Single-Walled Carbon Nanotubes/Ionic Liquid Lubricant. Application to Polycarbonate/Stainless Steel Sliding Contact. <i>Tribology Letters</i> , 2011 , 41, 199-207	2.8	42
42	Effect of ionic liquid on the structure and tribological properties of polycarbonate/zinc oxide nanodispersion. <i>Materials Letters</i> , 2007 , 61, 4531-4535	3.3	42
41	Synergy between single-walled carbon nanotubes and ionic liquid in epoxy resin nanocomposites. <i>Composites Part B: Engineering</i> , 2016 , 105, 149-159	10	42

40	Scratch resistance of polycarbonate containing ZnO nanoparticles: effects of sliding direction. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6683-9	1.3	40
39	Tribological properties of liquid crystals as lubricant additives. <i>Wear</i> , 1997 , 212, 188-194	3.5	38
38	Gold in organic synthesis Part 2. Preparation of benzyl-alkyl and-arylketones via C-C coupling. <i>Inorganica Chimica Acta</i> , 1994 , 220, 1-3	2.7	34
37	Surface damage of mold steel and its influence on surface roughness of injection molded plastic parts. <i>Wear</i> , 2011 , 271, 2512-2516	3.5	33
36	Self-healing of abrasion damage on epoxy resin controlled by ionic liquid. <i>RSC Advances</i> , 2016 , 6, 37258-37264	3.7	29
35	Antiwear performance of ionic liquid+graphene dispersions with anomalous viscosity-temperature behavior. <i>Tribology International</i> , 2018 , 122, 200-209	4.9	27
34	Multi-walled Carbon Nanotube-Imidazolium Tosylate Ionic Liquid Lubricant. <i>Tribology Letters</i> , 2013 , 50, 127-136	2.8	25
33	Synthesis of Mono-, Di-, and Tri-arylgold(III) Complexes Using Organomercury Compounds □ Synthesis of the First Aurated Schiff Bases. <i>Chemische Berichte</i> , 1996 , 129, 1301-1306		25
32	Carbon nanophases in ordered nanofluid lubricants. <i>Wear</i> , 2017 , 376-377, 747-755	3.5	24
31	Abrasive wear under multiscratching of polystyrene+single-walled carbon nanotube nanocomposites. Effect of sliding direction and modification by ionic liquid. <i>Applied Surface Science</i> , 2011 , 257, 9073-9081	6.7	24
30	Rheological behavior of multiwalled carbon nanotube-imidazolium tosylate ionic liquid dispersions. <i>Journal of Rheology</i> , 2017 , 61, 279-289	4.1	23
29	Ionanocarbon Lubricants. The Combination of Ionic Liquids and Carbon Nanophases in Tribology. <i>Lubricants</i> , 2017 , 5, 14	3.1	23
28	Synthesis and Reactivity of Some Nitroaryl Complexes of HgII and AuIII □ Synthesis of a Substituted Biphenyl by C-C Coupling □ Crystal Structure of [Hg(C ₆ H ₄ NO ₂ -3, OnBu-6) ₂]. <i>Chemische Berichte</i> , 1996 , 129, 1395-1399		22
27	Friction and multiple scratch behavior of polymer+monomer liquid crystal systems. <i>Polymer</i> , 2005 , 46, 347-362	3.9	21
26	The use of thermotropic liquid crystals in organometallic chemistry. Synthesis of new mercury, silver and gold complexes with 4,4'-disubstituted azob. <i>Journal of Organometallic Chemistry</i> , 1994 , 480, 103-109	2.3	21
25	Scratch resistance of a polycarbonate + organoclay nanohybrid. <i>EXPRESS Polymer Letters</i> , 2009 , 3, 621-624	3.9	21
24	Ionic Nanofluids in Tribology. <i>Lubricants</i> , 2015 , 3, 650-663	3.1	20
23	Wear of thermoplastics determined by multiple scratching. <i>E-Polymers</i> , 2005 , 5,	2.7	20

22	Influence of milling conditions on the wear resistance of mechanically alloyed aluminium. <i>Wear</i> , 2005 , 258, 906-914	3.5	17
21	Synthesis of some hydroxo-, phenoxo- and O,O-acetylacetonato-arylgold(III) complexes. Crystal structure of $[Au(C_6H_4NO_2)_2(OH)]_2 \cdot 2Et_2O$. <i>Journal of Organometallic Chemistry</i> , 1996 , 508, 53-57	2.3	17
20	Self-lubricating, wear resistant protic ionic liquid-epoxy resin. <i>EXPRESS Polymer Letters</i> , 2017 , 11, 219-224	3.4	15
19	Comparative study of the tribological properties of polyamide 6 filled with molybdenum disulfide and liquid crystalline additives. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 2426-2432	2.9	15
18	Scratch Resistance of New Polystyrene Nanocomposites with Ionic Liquid-Modified Multi-walled Carbon Nanotubes. <i>Tribology Letters</i> , 2013 , 52, 271-285	2.8	14
17	Rheological study of new dispersions of carbon nanotubes in the ionic liquid 1-ethyl-3-methylimidazolium dicyanamide. <i>Journal of Molecular Liquids</i> , 2019 , 278, 368-375	6	14
16	Fatty Acid-Derived Ionic Liquid Lubricant. Protic Ionic Liquid Crystals as Protic Ionic Liquid Additives. <i>Coatings</i> , 2019 , 9, 710	2.9	13
15	Study of the abrasion resistance under scratching of polybutylenetereftalate/glass fiber composites. <i>Tribology International</i> , 2015 , 92, 365-378	4.9	12
14	ZnO/ionic liquid nanostructures. <i>Applied Surface Science</i> , 2009 , 255, 4859-4862	6.7	12
13	Effect of temperature on the rheological behavior of a new aqueous liquid crystal bio-lubricant. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112406	6	12
12	Viscoelastic properties and long-term stability of polystyrene-carbon nanotube nanocomposites. Effect of the nature of the carbon nanotubes and modification by ionic liquid. <i>Polymer Degradation and Stability</i> , 2014 , 103, 42-48	4.7	9
11	A study of the wear behavior of polymer/matrix composites containing discontinuous nanocrystalline alloy reinforcements. <i>Tribology International</i> , 2007 , 40, 479-489	4.9	7
10	Tribological characterization of epoxy coatings modified with ionic liquids and graphene. <i>Tribology International</i> , 2020 , 149, 105516	4.9	7
9	Supercritical carbon dioxide extraction of a liquid crystalline additive from polystyrene matrices. <i>Journal of Supercritical Fluids</i> , 2002 , 23, 59-63	4.2	6
8	Static and kinetic friction force and surface roughness of different archwire-bracket sliding contacts. <i>Dental Materials Journal</i> , 2015 , 34, 648-53	2.5	5
7	Dynamic Moduli of Polybutylene Terephthalate Glass Fiber Reinforced in High-Temperature Environments. <i>Materials</i> , 2021 , 14,	3.5	5
6	Effect of Liquid Phase Impregnation Coatings on the Interfacial Bonding Strength of Carbon Fiber-Reinforced Aluminum. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801350	3.5	4
5	Wear of aluminium-base materials processed by mechanical milling in air or ammonia. <i>Wear</i> , 2003 , 255, 569-572	3.5	4

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| 4 | Scratch velocity and wear resistance. <i>E-Polymers</i> , 2005 , 5, | 2.7 | 4 |
| 3 | Flow Injection Analysis of Formaldehyde and Sulphite Using the Oxidation of p-Phenylenediamine by Hydrogen Peroxide. <i>International Journal of Environmental Analytical Chemistry</i> , 1993 , 53, 195-203 | 1.8 | 4 |
| 2 | Protic ammonium bio-based ionic liquid crystal lubricants. <i>Tribology International</i> , 2021 , 158, 106917 | 4.9 | 4 |
| 1 | Structural characterization of polymer-liquid crystal dispersions. <i>Polymer International</i> , 2002 , 51, 1256-1269 | 3.9 | 3 |