# Qiangliang Yu

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11562354/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 47 papers | 1,730 citations | 236833 25 h-index | 289141 40 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 870 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ionic liquid lubricants: when chemistry meets tribology. Chemical Society Reviews, 2020, 49, 7753-7818. | 18.7 | 220 |
| 2 | Polypyrrole nanowire/TiO 2 nanotube nanocomposites as photoanodes for photocathodic protection of Ti substrate and 304 stainless steel under visible light. Corrosion Science, 2015, 98, 471-477. | 3.0 | 95 |
| 3 | Probing the lubricating mechanism of oil-soluble ionic liquids additives. Tribology International, 2017, 107, 152-162. | 3.0 | 89 |
| 4 | Towards superior lubricity and anticorrosion performances of proton-type ionic liquids additives for water-based lubricating fluids. Chemical Engineering Journal, 2020, 383, 123201. | 6.6 | 88 |
| 5 | Thermoreversible Gel Lubricants through Universal Supramolecular Assembly of a Nonionic Surfactant in a Variety of Base Lubricating Liquids. ACS Applied Materials & Interfaces, 2014, 6, 15783-15794. | 4.0 | 71 |
| 6 | Dual self-healing composite coating on magnesium alloys for corrosion protection. Chemical Engineering Journal, 2021, 424, 130551. | 6.6 | 64 |
| 7 | New Method for the Corrosion Resistance of AZ31 Mg Alloy with a Porous Micro-Arc Oxidation Membrane as an Ionic Corrosion Inhibitor Container. Langmuir, 2019, 35, 1134-1145. | 1.6 | 62 |
| 8 | Anti-corrosion of amphoteric metal enhanced by MAO/corrosion inhibitor composite in acid, alkaline and salt solutions. Journal of Colloid and Interface Science, 2019, 554, 488-499. | 5.0 | 61 |
| 9 | Novel N , P-containing oil-soluble ionic liquids with excellent tribological and anti-corrosion performance. Tribology International, 2019, 132, 118-129. | 3.0 | 60 |
| 10 | Supramolecular ionogel lubricants with imidazolium-based ionic liquids bearing the urea group as gelator. Journal of Colloid and Interface Science, 2017, 487, 130-140. | 5.0 | 55 |
| 11 | Oil-soluble ionic liquids as antiwear and extreme pressure additives in poly-Î±-olefin for steel/steel contacts. Friction, 2019, 7, 18-31. | 3.4 | 53 |
| 12 | Synergistic effect of hydrophobic film and porous MAO membrane containing alkynol inhibitor for enhanced corrosion resistance of magnesium alloy. Surface and Coatings Technology, 2019, 357, 515-525. | 2.2 | 51 |
| 13 | Effect of Electric Potential and Chain Length on Tribological Performances of Ionic Liquids as Additives for Aqueous Systems and Molecular Dynamics Simulations. ACS Applied Materials & Interfaces, 2020, 12, 39910-39919. | 4.0 | 48 |
| 14 | In situ zwitterionic supramolecular gel lubricants for significantly improved tribological properties. Tribology International, 2016, 95, 55-65. | 3.0 | 47 |
| 15 | Ibuprofen-Based Ionic Liquids as Additives for Enhancing the Lubricity and Antiwear of Waterâ€“Ethylene Glycol Liquid. Tribology Letters, 2017, 65, 1. | 1.2 | 45 |
| 16 | Supramolecular Gel Lubricants Based on Amino Acid Derivative Gelators. Tribology Letters, 2016, 61, 1. | 1.2 | 41 |
| 17 | Halide-free PN ionic liquids surfactants as additives for enhancing tribological performance of water-based liquid. Tribology International, 2018, 128, 190-196. | 3.0 | 40 |
| 18 | Soft-nanocomposite lubricants of supramolecular gel with carbon nanotubes. Journal of Materials Chemistry A, 2019, 7, 7654-7663. | 5.2 | 37 |

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|---|---|---|---|
| 19 | Physicochemistry aspects on frictional interfaces. Friction, 2017, 5, 361-382. | 3.4 | 36 |
| 20 | Investigation of the lubricity and antiwear behavior of guanidinium ionic liquids at high temperature. Tribology International, 2017, 114, 65-76. | 3.0 | 35 |
| 21 | Taskâ€Specific Oilâ€Miscible Ionic Liquids Lubricate Steel/Light Metal Alloy: A Tribochemistry Study. Advanced Materials Interfaces, 2018, 5, 1800791. | 1.9 | 34 |
| 22 | Amino acid ionic liquids as anticorrosive and lubricating additives for water and their environmental impact. Tribology International, 2021, 153, 106663. | 3.0 | 32 |
| 23 | Significant enhancement of anti-friction capability of cationic surfactant by phosphonate functionality as additive in water. Tribology International, 2017, 112, 86-93. | 3.0 | 31 |
| 24 | Synergy of lithium salt and non-ionic surfactant for significantly improved tribological properties of water-based fluids. Tribology International, 2017, 113, 58-64. | 3.0 | 31 |
| 25 | Highlighting the Effect of Interfacial Interaction on Tribological Properties of Supramolecular Gel Lubricants. Advanced Materials Interfaces, 2016, 3, 1500489. | 1.9 | 30 |
| 26 | Physicochemical and tribological properties of gemini-type halogen-free dicationic ionic liquids. Friction, 2021, 9, 344-355. | 3.4 | 24 |
| 27 | MoS<sub>2</sub> Lubricating Film Meets Supramolecular Gel: A Novel Composite Lubricating System for Space Applications. ACS Applied Materials & Interfaces, 2021, 13, 58036-58047. | 4.0 | 24 |
| 28 | Supramolecular PFPE gel lubricant with anti-creep capability under irradiation conditions at high vacuum. Chemical Engineering Journal, 2021, 409, 128120. | 6.6 | 21 |
| 29 | Green Ionic Liquid Lubricants Prepared from Anti-Inflammatory Drug. Tribology Letters, 2015, 60, 1. | 1.2 | 19 |
| 30 | Fluorinated Candle Soot as the Lubricant Additive of Perfluoropolyether. Tribology Letters, 2017, 65, 1. | 1.2 | 19 |
| 31 | Tribological performance and lubrication mechanism of new gemini quaternary phosphonium ionic liquid lubricants. Journal of Molecular Liquids, 2021, 322, 114522. | 2.3 | 19 |
| 32 | Physicochemical and Tribological Performance of Biâ€Component Supramolecular Gel Lubricants. Advanced Materials Interfaces, 2019, 6, 1801391. | 1.9 | 18 |
| 33 | Significantly enhancing lubricity and anti-wear performances of glycerol lubricant with urea-functionalized imidazolium-organophosphate ionic liquid as additive. Tribology International, 2021, 153, 106602. | 3.0 | 18 |
| 34 | Self-Constraint Gel Lubricants with High Phase Transition Temperature. ACS Sustainable Chemistry and Engineering, 2018, 6, 15801-15810. | 3.2 | 16 |
| 35 | Lignin composite ionic liquid lubricating material as a water-based lubricating fluid additive with excellent lubricating, anti-wear and anti-corrosion properties. Tribology International, 2022, 174, 107742. | 3.0 | 14 |
| 36 | Corrosion and lubrication properties of a halogen-free Gemini room-temperature ionic liquid for titanium alloys. Tribology International, 2021, 156, 106850. | 3.0 | 11 |

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|---|---|---|---|
| 37 | Significantly Reducing Friction and Wear of Waterâ€Based Fluids with Shear Thinning Bicomponent Supramolecular Hydrogels. Advanced Materials Interfaces, 2020, 7, 2001084. | 1.9 | 10 |
| 38 | Gelation mechanism and tribological performances of two-component cholesterol-based supramolecular gel lubricant. Tribology International, 2021, 155, 106777. | 3.0 | 10 |
| 39 | Imidazolium ionic liquid bearing urea moiety as a new corrosion inhibitor of mild steel. Journal of Molecular Liquids, 2021, 334, 116484. | 2.3 | 10 |
| 40 | Comparing tribology properties of halogen-free ionic liquid, halogen-containing ionic liquid, and PAO 10 lubricants for steelâ€“Al2024 friction contact at room temperature and high temperature. Journal of Molecular Liquids, 2021, 323, 115041. | 2.3 | 9 |
| 41 | Functionalized phosphate ionic liquids as additives in PEG with excellent tribological properties for boundary/mixed/elastohydrodynamic lubrication. Tribology International, 2021, 164, 107242. | 3.0 | 8 |
| 42 | Effect of two halogen-free ionic liquids with different anions on the tribological properties of TC4. Journal of Molecular Liquids, 2021, 343, 117627. | 2.3 | 6 |
| 43 | Stable dispersibility of bentonite-type additive with gemini ionic liquid intercalation structure for oil-based drilling. Friction, 2023, 11, 201-215. | 3.4 | 6 |
| 44 | Novel Phosphate Organic Guanidine Salt Water-Based Additive with Integrated Anti-Friction, Anti-Wear and Anti-Corrosion Properties. Tribology Letters, 2022, 70, 1. | 1.2 | 5 |
| 45 | Tribological behavior of laser textured steel impregnated with supramolecular gel lubricant. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 1151-1159. | 1.0 | 3 |
| 46 | POSS-based ionic liquid lubricants with excellent resistance to atomic oxygen irradiation. Tribology International, 2022, 175, 107788. | 3.0 | 3 |
| 47 | Performance of oil-soluble ionic liquids as novel lubricant additives. Journal of Molecular Liquids, 2022, 363, 119837. | 2.3 | 1 |