# Frederic Guittard

List of Publications by Year
in descending order



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|---|---|---|---|
| 268 papers | 8,959 citations | 61984 43 h-index | 53230 85 g-index |
| 283 all docs | 283 docs citations | 283 times ranked | 8171 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recent advances in designing superhydrophobic surfaces. Journal of Colloid and Interface Science, 2013, 402, 1-18. | 9.4 | 609 |
| 2 | Superhydrophobic and superoleophobic properties in nature. Materials Today, 2015, 18, 273-285. | 14.2 | 518 |
| 3 | Recent advances in the potential applications of bioinspired superhydrophobic materials. Journal of Materials Chemistry A, 2014, 2, 16319-16359. | 10.3 | 490 |
| 4 | Chemical and Physical Pathways for the Preparation of Superoleophobic Surfaces and Related Wetting Theories. Chemical Reviews, 2014, 114, 2694-2716. | 47.7 | 466 |
| 5 | Glycerol carbonate as a versatile building block for tomorrow: synthesis, reactivity, properties and applications. Green Chemistry, 2013, 15, 283-306. | 9.0 | 428 |
| 6 | Superhydrophobic Surfaces by Electrochemical Processes. Advanced Materials, 2013, 25, 1378-1394. | 21.0 | 395 |
| 7 | Wettability of conducting polymers: From superhydrophilicity to superoleophobicity. Progress in Polymer Science, 2014, 39, 656-682. | 24.7 | 213 |
| 8 | Molecular Design of Conductive Polymers To Modulate Superoleophobic Properties. Journal of the American Chemical Society, 2009, 131, 7928-7933. | 13.7 | 187 |
| 9 | Highly fluorinated thermotropic liquid crystals: an update. Journal of Fluorine Chemistry, 1999, 100, 85-96. | 1.7 | 159 |
| 10 | Anionic Surfactants and Surfactant Ionic Liquids with Quaternary Ammonium Counterions. Langmuir, 2011, 27, 4563-4571. | 3.5 | 145 |
| 11 | Covalent Layer-by-Layer Assembled Superhydrophobic Organicâ˜'Inorganic Hybrid Films. Langmuir, 2009, 25, 11073-11077. | 3.5 | 138 |
| 12 | Branched Hydrocarbon Low Surface Energy Materials for Superhydrophobic Nanoparticle Derived Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 660-666. | 8.0 | 138 |
| 13 | Superhydrophobic Fiber Mats by Electrodeposition of Fluorinated Poly(3,4-ethyleneoxythiathiophene). Journal of the American Chemical Society, 2011, 133, 15627-15634. | 13.7 | 121 |
| 14 | Polymerizable semi-fluorinated gemini surfactants designed for antimicrobial materials. Journal of Colloid and Interface Science, 2009, 332, 201-207. | 9.4 | 110 |
| 15 | Superoleophobic surfaces with short fluorinated chains?. Soft Matter, 2013, 9, 5982. | 2.7 | 108 |
| 16 | Synthesis of Stable Super Water- and Oil-Repellent Polythiophene Films. Angewandte Chemie - International Edition, 2006, 45, 2251-2254. | 13.8 | 97 |
| 17 | Superoleophobic behavior of fluorinated conductive polymer films combining electropolymerization and lithography. Soft Matter, 2011, 7, 1053-1057. | 2.7 | 93 |
| 18 | Fabrication of Superhydrophobic PDMS Surfaces by Combining Acidic Treatment and Perfluorinated Monolayers. Langmuir, 2009, 25, 6448-6453. | 3.5 | 83 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Recent advances in the study and design of parahydrophobic surfaces: From natural examples to synthetic approaches. Advances in Colloid and Interface Science, 2017, 241, 37-61. | 14.7 | 81 |
| 20 | Synthesis and antimicrobial properties of polymerizable quaternary ammoniums. European Journal of Medicinal Chemistry, 2009, 44, 3201-3208. | 5.5 | 80 |
| 21 | The design of superhydrophobic stainless steel surfaces by controlling nanostructures: A key parameter to reduce the implantation of pathogenic bacteria. Materials Science and Engineering C, 2017, 73, 40-47. | 7.3 | 80 |
| 22 | Low-Surface Energy Surfactants with Branched Hydrocarbon Architectures. Langmuir, 2014, 30, 3413-3421. | 3.5 | 74 |
| 23 | Antimicrobial properties of highly fluorinated bis-ammonium salts. International Journal of Antimicrobial Agents, 2003, 21, 20-26. | 2.5 | 71 |
| 24 | Microwave-assisted synthesis of silver nanoprisms/nanoplates using a â€œmodified polyol processâ€. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 395, 145-151. | 4.7 | 67 |
| 25 | Hydrocarbon versus Fluorocarbon in the Electrodeposition of Superhydrophobic Polymer Films. Langmuir, 2010, 26, 17596-17602. | 3.5 | 64 |
| 26 | Stable Superhydrophobic and Lipophobic Conjugated Polymers Films. Langmuir, 2006, 22, 3081-3088. | 3.5 | 62 |
| 27 | Superhydrophobic Fibrous Polymers. Polymer Reviews, 2013, 53, 460-505. | 10.9 | 61 |
| 28 | Surface Structuration (Micro and/or Nano) Governed by the Fluorinated Tail Lengths toward Superoleophobic Surfaces. Langmuir, 2012, 28, 186-192. | 3.5 | 60 |
| 29 | Highly fluorinated molecular organised systems: strategy and concept. Journal of Fluorine Chemistry, 2001, 107, 363-374. | 1.7 | 59 |
| 30 | Stability of the hydrophilic and superhydrophobic properties of oxygen plasma-treated poly(tetrafluoroethylene) surfaces. Journal of Colloid and Interface Science, 2013, 396, 287-292. | 9.4 | 58 |
| 31 | Electrodeposited polymer films with both superhydrophobicity and superoleophilicity. Physical Chemistry Chemical Physics, 2008, 10, 4322. | 2.8 | 57 |
| 32 | Low Fluorine Content CO<sub>2</sub>-philic Surfactants. Langmuir, 2011, 27, 10562-10569. | 3.5 | 56 |
| 33 | Superoleophobic Meshes with High Adhesion by Electrodeposition of Conducting Polymer Containing Short Perfluorobutyl Chains. Journal of Physical Chemistry C, 2014, 118, 2052-2057. | 3.1 | 55 |
| 34 | A one-step electrodeposition of homogeneous and vertically aligned nanotubes with parahydrophobic properties (high water adhesion). Journal of Materials Chemistry A, 2016, 4, 3197-3203. | 10.3 | 55 |
| 35 | Hyperbranched Hydrocarbon Surfactants Give Fluorocarbon-like Low Surface Energies. Langmuir, 2014, 30, 6057-6063. | 3.5 | 53 |
| 36 | Preparation and antimicrobial behaviour of quaternary ammonium thiol derivatives able to be grafted on metal surfaces. European Journal of Medicinal Chemistry, 2009, 44, 717-724. | 5.5 | 52 |

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| 37 | Synthesis and characterization of copolymers based on styrene and partially fluorinated acrylates. European Polymer Journal, 2006, 42, 702-710. | 5.4 | 51 |
| 38 | Flagella but not type IV pili are involved in the initial adhesion of Pseudomonas aeruginosa PAO1 to hydrophobic or superhydrophobic surfaces. Colloids and Surfaces B: Biointerfaces, 2015, 131, 59-66. | 5.0 | 50 |
| 39 | Hybrid Fluorocarbonâ"Hydrocarbon CO2-philic Surfactants. 2. Formation and Properties of Water-in-CO2Microemulsions. Langmuir, 2004, 20, 9960-9967. | 3.5 | 49 |
| 40 | Low Surface Energy Perfluorooctyalkyl Acrylate Copolymers for Surface Modification of PET. Macromolecular Chemistry and Physics, 2005, 206, 1098-1105. | 2.2 | 48 |
| 41 | Synthesis and Properties of Perfluorinated Conjugated Polymers Based on Polyethylenedioxythiophene, Polypyrrole, and Polyfluorene. Toward Surfaces with Special Wettabilities. Langmuir, 2008, 24, 9739-9746. | 3.5 | 47 |
| 42 | Versatile Superhydrophobic Surfaces from a Bioinspired Approach. Macromolecules, 2011, 44, 9286-9294. | 4.8 | 46 |
| 43 | Hybrid Fluorocarbonâ"Hydrocarbon CO2-philic Surfactants. 1. Synthesis and Properties of Aqueous Solutions. Langmuir, 2004, 20, 9953-9959. | 3.5 | 45 |
| 44 | Spontaneous, Phase-Separation Induced Surface Roughness: A New Method to Design Parahydrophobic Polymer Coatings with Rose Petal-like Morphology. ACS Applied Materials & Interfaces, 2016, 8, 3063-3071. | 8.0 | 45 |
| 45 | Superhydrophobic nanofiber arrays and flower-like structures of electrodeposited conducting polymers. Soft Matter, 2012, 8, 9110. | 2.7 | 44 |
| 46 | A template-free approach to nanotube-decorated polymer surfaces using 3,4-phenylenedioxythiophene (PhEDOT) monomers. Journal of Materials Chemistry A, 2016, 4, 17308-17323. | 10.3 | 44 |
| 47 | X-Ray photoelectron spectroscopy study of polycrystalline zinc modified by n-dodecanethiol and 3-perfluorooctyl-propanethiol. Thin Solid Films, 2002, 405, 186-193. | 1.8 | 42 |
| 48 | Fluorinated comblike homopolymers: The effect of spacer lengths on surface properties. Journal of Polymer Science Part A, 2005, 43, 3737-3747. | 2.3 | 42 |
| 49 | Fluorophobic Effect for Building up the Surface Morphology of Electrodeposited Substituted Conductive Polymers. Langmuir, 2009, 25, 5463-5466. | 3.5 | 42 |
| 50 | Connector Ability To Design Superhydrophobic and Oleophobic Surfaces from Conducting Polymers. Langmuir, 2010, 26, 13545-13549. | 3.5 | 40 |
| 51 | Elaboration of Voltage and Ion Exchange Stimuli-Responsive Conducting Polymers with Selective Switchable Liquid-Repellency. ACS Applied Materials & Interfaces, 2014, 6, 7953-7960. | 8.0 | 40 |
| 52 | Enhanced activity of fluorinated quaternary ammonium surfactants against Pseudomonas aeruginosa. European Journal of Medicinal Chemistry, 2009, 44, 1615-1622. | 5.5 | 39 |
| 53 | Super oil-repellent surfaces from conductive polymers. Journal of Materials Chemistry, 2009, 19, 7130. | 6.7 | 39 |
| 54 | Toxicity assessment of silica nanoparticles, functionalised silica nanoparticles, and HASE-grafted silica nanoparticles. Science of the Total Environment, 2013, 450-451, 120-128. | 8.0 | 39 |

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| 55 | Preparation and antimicrobial behaviour of gemini fluorosurfactants. European Journal of Medicinal Chemistry, 2003, 38, 519-523. | 5.5 | 37 |
| 56 | Influence of intrinsic oleophobicity and surface structuration on the superoleophobic properties of PEDOP films bearing two fluorinated tails. Journal of Materials Chemistry A, 2013, 1, 2896. | 10.3 | 37 |
| 57 | One-Step and Templateless Electropolymerization Process Using Thienothiophene Derivatives To Develop Arrays of Nanotubes and Tree-like Structures with High Water Adhesion. ACS Applied Materials & Interfaces, 2016, 8, 22732-22743. | 8.0 | 36 |
| 58 | pHâ€•and Voltageâ€Switchable Superhydrophobic Surfaces by Electroâ€Copolymerization of EDOT Derivatives Containing Carboxylic Acids and Long Alkyl Chains. ChemPhysChem, 2013, 14, 2529-2533. | 2.1 | 33 |
| 59 | Influence of long alkyl spacers in the elaboration of superoleophobic surfaces with short fluorinated chains. RSC Advances, 2013, 3, 5556. | 3.6 | 33 |
| 60 | Highly Polar Linkers (Urea, Carbamate, Thiocarbamate) for Superoleophobic/Superhydrophobic or Oleophobic/Hydrophilic Properties. Advanced Materials Interfaces, 2015, 2, 1500081. | 3.7 | 33 |
| 61 | Synthesis and mesomorphic properties of perfluorinated rod-like liquid crystals with sulphur-containing spacers. Liquid Crystals, 1999, 26, 1371-1377. | 2.2 | 32 |
| 62 | One-pot method for build-up nanoporous super oil-repellent films. Journal of Colloid and Interface Science, 2009, 335, 146-149. | 9.4 | 32 |
| 63 | Superhydrophobic Surfaces of Electrodeposited Polypyrroles Bearing Fluorinated Liquid Crystalline Segments. Macromolecules, 2010, 43, 9365-9370. | 4.8 | 32 |
| 64 | New CeO 2 nanoparticles-based topical formulations for the skin protection against organophosphates. Toxicology Reports, 2015, 2, 1007-1013. | 3.3 | 31 |
| 65 | Analogy of morphology in electrodeposited hydrocarbon and fluorocarbon polymers. RSC Advances, 2013, 3, 647-652. | 3.6 | 30 |
| 66 | Fluorosurfactants at Structural Extremes:Â Adsorption and Aggregation. Langmuir, 2006, 22, 2034-2038. | 3.5 | 29 |
| 67 | Self-assembled monolayers of semifluorinated thiols on electrochemically modified polycrystalline nickel surfaces. Thin Solid Films, 2005, 491, 253-259. | 1.8 | 28 |
| 68 | Texturation and superhydrophobicity of polyethylene terephthalate thanks to plasma technology. Applied Surface Science, 2014, 292, 782-789. | 6.1 | 28 |
| 69 | Superoleophobic polymers with metal ion affinity toward materials with both oleophobic and hydrophilic properties. Journal of Colloid and Interface Science, 2013, 408, 101-106. | 9.4 | 26 |
| 70 | Influence of the monomer structure and electrochemical parameters on the formation of nanotubes with parahydrophobic properties (high water adhesion) by a templateless electropolymerization process. Journal of Colloid and Interface Science, 2016, 466, 413-424. | 9.4 | 26 |
| 71 | Liquid crystal polymers for non-reconstructing fluorinated surfaces. Journal of Materials Chemistry, 2008, 18, 5382. | 6.7 | 25 |
| 72 | Tunable Surface Nanoporosity by Electropolymerization of <i>N</i>â€Alkylâ€3,4â€ethylenedioxypyrroles With Different Alkyl Chain Lengths. Macromolecular Chemistry and Physics, 2012, 213, 2492-2497. | 2.2 | 25 |

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| 73 | Highly hydrophobic films with various adhesion by electrodeposition of poly(3,4-bis(alkoxy)thiophene)s. Soft Matter, 2013, 9, 1500-1505. | 2.7 | 25 |
| 74 | Azidomethyl-EDOT as a Platform for Tunable Surfaces with Nanostructures and Superhydrophobic Properties. Journal of Physical Chemistry B, 2015, 119, 6873-6877. | 2.6 | 25 |
| 75 | Superpropulsion of Droplets and Soft Elastic Solids. Physical Review Letters, 2017, 119, 108001. | 7.8 | 25 |
| 76 | Superhydrophobic conducting polymers with switchable water and oil repellency by voltage and ion exchange. RSC Advances, 2014, 4, 3550-3555. | 3.6 | 24 |
| 77 | Electrodeposition of Polypyrenes with Tunable Hydrophobicity, Water Adhesion, and Fluorescence Properties. Journal of Physical Chemistry C, 2016, 120, 7077-7087. | 3.1 | 24 |
| 78 | Highly fluorinated monomers precursors of side-chain liquid crystalline polysiloxanes. Journal of Polymer Science Part A, 1999, 37, 4487-4496. | 2.3 | 23 |
| 79 | Microphasic separation-induced enantiotropic liquid crystal behaviour single phenyl unit series based on the fluorophobic effect. Liquid Crystals, 2003, 30, 663-669. | 2.2 | 23 |
| 80 | Homogeneous growth of conducting polymer nanofibers by electrodeposition for superhydrophobic and superoleophilic stainless steel meshes. RSC Advances, 2014, 4, 50401-50405. | 3.6 | 23 |
| 81 | 3,4-Ethylenedioxypyrrole (EDOP) Monomers with Aromatic Substituents for Parahydrophobic Surfaces by Electropolymerization. Macromolecules, 2015, 48, 5188-5195. | 4.8 | 23 |
| 82 | Branched Fluorinated Nonionic Y-Shaped Surfactants. Effect of Molecular Geometry on Liquid Crystalline Phase Behavior. Langmuir, 1996, 12, 6346-6350. | 3.5 | 22 |
| 83 | Enhancement of the Superoleophobic Properties of Fluorinated PEDOP Using Polar Glycol Spacers. Journal of Physical Chemistry C, 2014, 118, 26912-26920. | 3.1 | 22 |
| 84 | The Major Influences of Substituent Size and Position of 3,4â€Propylenedioxythiophene on the Formation of Highly Hydrophobic Nanofibers. ChemPlusChem, 2014, 79, 1434-1439. | 2.8 | 22 |
| 85 | Oneâ€Pot Process to Control the Elaboration of Nonâ€Wetting Nanofibers. Advanced Materials Interfaces, 2014, 1, 1300094. | 3.7 | 22 |
| 86 | Superhydrophobic (low adhesion) and parahydrophobic (high adhesion) surfaces with micro/nanostructures or nanofilaments. Journal of Colloid and Interface Science, 2015, 453, 42-47. | 9.4 | 22 |
| 87 | Liquid crystalline semifluorinated ionic dendrimers. Liquid Crystals, 2007, 34, 395-400. | 2.2 | 21 |
| 88 | Superhydrophobic hollow spheres by electrodeposition of fluorinated poly(3,4-ethylenedithiopyrrole). RSC Advances, 2012, 2, 10899. | 3.6 | 21 |
| 89 | Spider-web-like fiber toward highly oleophobic fluorinated materials with low bioaccumulative potential. Reactive and Functional Polymers, 2014, 74, 46-51. | 4.1 | 21 |
| 90 | 3,4-Dialkoxypyrrole for the Formation of Bioinspired Rose Petal-like Substrates with High Water Adhesion. Langmuir, 2016, 32, 12476-12487. | 3.5 | 21 |

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| 91 | Fluorinated acrylic polymers: Surface properties and XPS investigations. Journal of Applied Polymer Science, 2006, 99, 821-827. | 2.6 | 20 |
| 92 | Superhydrophobic surfaces from 3,4-propylenedioxythiophene (ProDOT) derivatives. European Polymer Journal, 2013, 49, 2267-2274. | 5.4 | 20 |
| 93 | Superhydrophobic and oleophobic surfaces containing wrinkles and nanoparticles of PEDOT with two short fluorinated chains. RSC Advances, 2014, 4, 10935. | 3.6 | 20 |
| 94 | Staudinger Vilarassa reaction: A powerful tool for surface modification and superhydrophobic properties. Journal of Colloid and Interface Science, 2015, 457, 72-77. | 9.4 | 20 |
| 95 | Effect of Fluorocarbon and Hydrocarbon Chain Lengths in Hybrid Surfactants for Supercritical CO<sub>2</sub>. Langmuir, 2015, 31, 7479-7487. | 3.5 | 20 |
| 96 | Reactive-ion etching of nylon fabric meshes using oxygen plasma for creating surface nanostructures. Applied Surface Science, 2015, 356, 408-415. | 6.1 | 20 |
| 97 | Synthesis and mesomorphic properties of novel [1,2,3]-triazole mesogenic based compounds. Journal of Molecular Structure, 2013, 1034, 22-28. | 3.6 | 19 |
| 98 | Low bioaccumulative materials for parahygrophobic nanosheets with sticking behaviour. Journal of Colloid and Interface Science, 2015, 447, 167-172. | 9.4 | 19 |
| 99 | Post-functionalization of plasma treated polycarbonate substrates: An efficient way to hydrophobic, oleophobic plastics. Applied Surface Science, 2016, 387, 28-35. | 6.1 | 19 |
| 100 | Designing Nanoporous Membranes through Templateless Electropolymerization of Thieno[3,4-<i>b</i>]thiophene Derivatives with High Water Content. ACS Omega, 2019, 4, 13080-13085. | 3.5 | 19 |
| 101 | Micellar formation by soft template electropolymerization in organic solvents. Journal of Colloid and Interface Science, 2021, 590, 260-267. | 9.4 | 19 |
| 102 | Convenient synthesis of thiols and disulfides in the polyfluorinated series incorporating a butylic spacer. Tetrahedron Letters, 2000, 41, 2885-2889. | 1.4 | 18 |
| 103 | Superhydrophobic Conducting Polymers Based on Hydrocarbon Poly(3,4â€Ethylenedioxyselenophene). ChemPhysChem, 2013, 14, 2947-2953. | 2.1 | 18 |
| 104 | Superhydrophobic surfaces with low and high adhesion made from mixed (hydrocarbon and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T Physics, 2014, 52, 782-788. | 2.1 | 18 |
| 105 | Superoleophobic Meshes with Relatively Low Hysteresis and Sliding Angles by Electropolymerization: Importance of Polymerâ€Growth Control. ChemPlusChem, 2014, 79, 382-386. | 2.8 | 18 |
| 106 | Electrodeposited Poly(thieno[3,2â€<i>b</i>]thiophene) Films for the Templateless Formation of Porous Structures by Galvanostatic and Pulse Deposition. ChemPlusChem, 2017, 82, 1351-1358. | 2.8 | 18 |
| 107 | Superhydrophobicity of polymer films via fluorine atoms covalent attachment and surface nano-texturing. Journal of Fluorine Chemistry, 2017, 200, 123-132. | 1.7 | 18 |
| 108 | Coral-like nanostructures. Materials Today, 2019, 31, 119-120. | 14.2 | 18 |

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| 109 | Influence of the structure of the mesogenic core on the thermotropic properties of Ï‰-unsaturated fluorinated liquid crystals. Liquid Crystals, 2003, 30, 251-257. | 2.2 | 17 |
| 110 | One methylene unit to control super oil-repellency properties of conducting polymers. Chemical Communications, 2009, , 2210. | 4.1 | 17 |
| 111 | Surface and antimicrobial properties of semi-fluorinated quaternary ammonium thiol surfactants potentially usable for Self-Assembled Monolayers. Journal of Fluorine Chemistry, 2010, 131, 592-596. | 1.7 | 17 |
| 112 | One <i>F</i>-Octyl versus Two <i>F</i>-Butyl Chains in Surfactant Aggregation Behavior. Langmuir, 2013, 29, 14815-14822. | 3.5 | 17 |
| 113 | Highly Oleophobic Properties of PEDOP Polymers with Short Perfluorobutyl Chains Separated by Long Alkyl Spacers and Amido Connectors. Macromolecular Chemistry and Physics, 2013, 214, 2036-2042. | 2.2 | 17 |
| 114 | Branched versus linear perfluorocarbon chains in the formation of superhydrophobic electrodeposited films with low bioaccumulative potential. Journal of Materials Science, 2014, 49, 7760-7769. | 3.7 | 17 |
| 115 | Controlling electrodeposited conducting polymer nanostructures with the number and the length of fluorinated chains for adjusting superhydrophobic properties and adhesion. RSC Advances, 2015, 5, 37196-37205. | 3.6 | 17 |
| 116 | Nanoparticle covered surfaces: An efficient way to enhance superhydrophobic properties. Materials and Design, 2016, 92, 911-918. | 7.0 | 17 |
| 117 | Anisotropic reversed micelles with fluorocarbon-hydrocarbon hybrid surfactants in supercritical CO2. Colloids and Surfaces B: Biointerfaces, 2018, 168, 201-210. | 5.0 | 17 |
| 118 | Exceptionally Strong Effect of Small Structural Variations in Functionalized 3,4-Phenylenedioxythiophenes on the Surface Nanostructure and Parahydrophobic Properties of Their Electropolymerized Films. Macromolecules, 2019, 52, 8088-8102. | 4.8 | 17 |
| 119 | Preparation and Liquid Crystalline Properties of (Hydroxypropyl) cellulose Perfluorooctanoate. Macromolecules, 1994, 27, 6988-6990. | 4.8 | 16 |
| 120 | Monomers reactivity ratios of fluorinated acrylates-styrene copolymers. Polymer International, 2002, 51, 1058-1062. | 3.1 | 16 |
| 121 | Novel highly fluorinated sulfamates: Synthesis and evaluation of their surfactant properties. Journal of Colloid and Interface Science, 2008, 326, 235-239. | 9.4 | 16 |
| 122 | Giant Brainlike Aggregates from New Fluorocarbon/Hydrocarbon Hybrid Cationic Surfactants. Langmuir, 2011, 27, 1668-1674. | 3.5 | 16 |
| 123 | Effect of hydrocarbon chain branching in the elaboration of superhydrophobic materials by electrodeposition of conducting polymers. Surface and Coatings Technology, 2014, 259, 594-598. | 4.8 | 16 |
| 124 | Switchable surfaces from highly hydrophobic to highly hydrophilic using covalent imine bonds. Journal of Applied Polymer Science, 2016, 133, . | 2.6 | 16 |
| 125 | Superhydrophobic properties of electrodeposited fluorinated polypyrenes. Journal of Fluorine Chemistry, 2017, 193, 73-81. | 1.7 | 16 |
| 126 | Water-in-CO<sub>2</sub> Microemulsions Stabilized by Fluorinated Cationâ€“Anion Surfactant Pairs. Langmuir, 2019, 35, 3445-3454. | 3.5 | 16 |

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| 127 | Synthesis and properties of new fluorinated ester, thioester, and amide substituted polythiophenes. Towards superhydrophobic surfaces. Journal of Polymer Science Part A, 2007, 45, 4707-4719. | 2.3 | 15 |
| 128 | Structured biotinylated poly(3,4-ethylenedioxypyrrole) electrodes for biochemical applications. RSC Advances, 2012, 2, 1033-1039. | 3.6 | 15 |
| 129 | Intrinsically water-repellent copper oxide surfaces; An electro-crystallization approach. Applied Surface Science, 2018, 443, 191-197. | 6.1 | 15 |
| 130 | The influence of bath temperature on the one-step electrodeposition of non- wetting copper oxide coatings. Applied Surface Science, 2020, 503, 144094. | 6.1 | 15 |
| 131 | Contact-active microbicidal gold surfaces using immobilization of quaternary ammonium thiol derivatives. European Journal of Medicinal Chemistry, 2009, 44, 4227-4234. | 5.5 | 14 |
| 132 | Three steps to organicâ€“inorganic hybrid films showing superhydrophilic properties. Soft Matter, 2011, 7, 10057. | 2.7 | 14 |
| 133 | Wettability of poly(3-alkyl-3,4-propylenedioxythiophene) fibrous structures forming nanoporous, microporous or micro/nanostructured networks. Materials Chemistry and Physics, 2014, 146, 6-11. | 4.0 | 14 |
| 134 | Highly hydrophobic films with high water adhesion by electrodeposition of poly(3,4-propylenedioxythiophene) containing two alkoxy groups. Colloid and Polymer Science, 2015, 293, 933-940. | 2.1 | 14 |
| 135 | Superoleophobic/superhydrophobic PEDOP conducting copolymers with dual-responsivity by voltage and ion exchange. Materials Today Communications, 2016, 6, 1-8. | 1.9 | 14 |
| 136 | Barrier cream based on CeO 2 nanoparticles grafted polymer as an active compound against the penetration of organophosphates. Chemico-Biological Interactions, 2017, 267, 17-24. | 4.0 | 14 |
| 137 | A travel in the Echeveria genus wettability's world. Applied Surface Science, 2017, 411, 291-302. | 6.1 | 14 |
| 138 | Direct Electrodeposition of Superhydrophobic and Highly Oleophobic Poly(3,4â€ethylenedioxypyrrole) (PEDOP) and Poly(3,4â€propylenedioxypyrrole) (PProDOP) Nanofibers. ChemNanoMat, 2017, 3, 885-894. | 2.8 | 14 |
| 139 | Trimethylsilyl hedgehogs â€“ a novel class of super-efficient hydrocarbon surfactants. Physical Chemistry Chemical Physics, 2017, 19, 23869-23877. | 2.8 | 14 |
| 140 | A Templateless Electropolymerization Approach to Porous Hydrophobic Nanostructures Using 3,4â€Phenylenedioxythiophene Monomers with Electronâ€Withdrawing Groups. ChemNanoMat, 2018, 4, 656-662. | 2.8 | 14 |
| 141 | Synthesis, characterization and surface wettability of polythiophene derivatives containing semi-fluorinated liquid-crystalline segment. Journal of Fluorine Chemistry, 2012, 134, 85-89. | 1.7 | 13 |
| 142 | Parahydrophobic Surfaces Made of Intrinsically Hydrophilic PProDOT Nanofibers with Branched Alkyl Chains. Advanced Engineering Materials, 2014, 16, 1400-1405. | 3.5 | 13 |
| 143 | Elaboration of Superhydrophobic Surfaces containing Nanofibers and Wrinkles with Controllable Water and Oil Adhesion. Macromolecular Materials and Engineering, 2014, 299, 959-965. | 3.6 | 13 |
| 144 | Superhydrophobic surface properties with various nanofibrous structures by electrodeposition of PEDOT polymers with short fluorinated chains and rigid spacers. Synthetic Metals, 2015, 205, 58-63. | 3.9 | 13 |

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| 145 | Superhydrophobic, superoleophobic and underwater superoleophobic conducting polymer films. Surface Innovations, 2018, 6, 181-204. | 2.3 | 13 |
| 146 | Molecular Design of Highly Fluorinated Liquid Crystals. ACS Symposium Series, 2001, , 180-194. | 0.5 | 12 |
| 147 | Robustness tests on superoleophobic PEDOP films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 433, 47-54. | 4.7 | 12 |
| 148 | Super liquid-repellent properties of electrodeposited hydrocarbon and fluorocarbon copolymers. RSC Advances, 2013, 3, 10848. | 3.6 | 12 |
| 149 | Investigation of structureâ€“surface properties relationship of semi-fluorinated polymerizable cationic surfactants. Journal of Colloid and Interface Science, 2013, 408, 125-131. | 9.4 | 12 |
| 150 | Wetting Transition from Hydrophilic to Superhydrophobic over Dendrite Copper Leaves Grown on Steel Meshes. Journal of Bionic Engineering, 2019, 16, 719-729. | 5.0 | 12 |
| 151 | Nanotubular structures through templateless electropolymerization using thieno[3,4-b]thiophene derivatives with different substituents and water content. Electrochimica Acta, 2019, 320, 134594. | 5.2 | 12 |
| 152 | Synthesis and Behavior at the Airâ€“Water Interface of Fluorinated Nonionic Surfactants Containing Two Methylated Polyoxyethylene Moieties. Journal of Colloid and Interface Science, 1996, 177, 101-105. | 9.4 | 11 |
| 153 | Influence of fluorinated segments of variable length on the thickening properties of a model HASE skeleton. Journal of Applied Polymer Science, 2011, 120, 2685-2692. | 2.6 | 11 |
| 154 | New fluorinated hybrid organic/inorganic water soluble polymeric network. Polymer, 2013, 54, 6089-6095. | 3.8 | 11 |
| 155 | Nanostructured superhydrophobic films synthesized by electrodeposition of fluorinated polyindoles. Beilstein Journal of Nanotechnology, 2015, 6, 2078-2087. | 2.8 | 11 |
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