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Perfluoropolyether polymers by UV curing: design, synthesis and characterization

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#	Paper	IF	Citations
48	Photopolymerization of a perfluoropolyether oligomer and photolithographic processes for the fabrication of microfluidic devices. <i>European Polymer Journal</i> , 2012 , 48, 1118-1126	5.2	39
47	Synthesis of fluorinated urethane acrylate based UV-curable coatings. <i>Progress in Organic Coatings</i> , 2013 , 76, 388-399	4.8	55
46	Synthesis and characterization of a novel difunctional fluorinated acrylic oligomer used for UV-cured coatings. <i>Journal of Fluorine Chemistry</i> , 2013 , 147, 49-55	2.1	22
45	Nanoheterogeneous networks by photopolymerization of perfluoropolyethers and acrylic co-monomers. <i>Polymer International</i> , 2013 , 62, 1395-1401	3.3	22
44	Photochemical synthesis of perfluoropolyether (PFPE) nanocomposites containing PFPE oligomer stabilized magnetite nanoparticles. <i>Colloid and Polymer Science</i> , 2014 , 292, 3003-3011	2.4	4
43	Protein antifouling and fouling-release in perfluoropolyether surfaces. <i>Applied Surface Science</i> , 2014 , 309, 160-167	6.7	37
42	Improvement of adhesion between a UV curable fluorinated resin and fluorinated elastomers: Effect of chemical modification onto the mechanical properties of the joints. <i>International Journal of Adhesion and Adhesives</i> , 2014 , 48, 303-309	3.4	10
41	Synthesis and cationic photopolymerization of fluorine-containing vinyl ether monomers for the hydrophobic films. <i>Journal of Applied Polymer Science</i> , 2014 , 131,	2.9	3
40	Synthesis, UV-curing behavior and surface properties of fluorine-containing vinyl ether polymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 1032-1039	3.5	6
39	Sensitivity enhancement of a UV photo-sensor based on a fiber Bragg grating coated by a photomechanical functional polymer. <i>Sensors and Actuators A: Physical</i> , 2015 , 232, 223-228	3.9	11
38	Microcapsules for Enhanced Cargo Retention and Diversity. <i>Small</i> , 2015 , 11, 2903-9	11	33
37	Fluorinated Oligomers and Polymers in Photopolymerization. <i>Chemical Reviews</i> , 2015 , 115, 8835-66	68.1	154
36	Radical Copolymerization of Vinylidene Fluoride (VDF) with Oligo(hexafluoropropylene oxide) Perfluorovinyl Ether Macromonomer To Obtain PVDF-g-oligo(HFPO) Graft Copolymers. <i>Macromolecules</i> , 2015 , 48, 7060-7070	5.5	14
35	Ambient Temperature Photocopolymerization of Tetrahydrofurfuryl Methacrylate and Isobornyl Methacrylate: Reactivity Ratios and Thermal Studies. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015 , 52, 982-991	2.2	5
34	Stability in alkaline aqueous electrolyte of air electrode protected with fluorinated interpenetrating polymer network membrane. <i>Journal of Power Sources</i> , 2015 , 274, 488-495	8.9	15
33	A New Design Paradigm for Smart Windows: Photocurable Polymers for Quasi-Solid Photoelectrochromic Devices with Excellent Long-Term Stability under Real Outdoor Operating Conditions. <i>Advanced Functional Materials</i> , 2016 , 26, 1127-1137	15.6	100
32	A novel mono-methacryloyloxy terminated fluorinated macromonomer used for the modification of UV curable acrylic copolymers. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	4

31	Analysis of the biocompatibility of perfluoropolyether dimethacrylate network using an organotypic method. <i>Materials Science and Engineering C</i> , 2016 , 65, 295-302	8.3	9
30	A Versatile Strategy to Synthesize Perfluoropolyether-Based Thermoplastic Fluoropolymers by Alkyne-Azide Step-Growth Polymerization. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 711-7	4.8	29
29	Smart multiphase polymer coatings for the protection of materials. 2016 , 213-234		4
28	Liver and kidney cells cultures in a new perfluoropolyether biochip. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 396-407	8.5	27
27	Preparation of organic/inorganic hybrid silica nanoparticles with contact antibacterial properties and their application in UV-curable coatings. <i>Progress in Organic Coatings</i> , 2017 , 106, 20-26	4.8	27
26	Photocrosslinked PVDF-based star polymer coatings: an all-in-one alternative to PVDF/PMMA blends for outdoor applications. <i>Polymer Chemistry</i> , 2017 , 8, 3045-3049	4.9	21
25	Liquid-capped encoded microcapsules for multiplex assays. <i>Lab on A Chip</i> , 2017 , 17, 429-437	7.2	20
24	Developing structure and thermodynamic properties-consistent coarse-grained model for random copolymer systems. <i>Polymer</i> , 2017 , 123, 107-120	3.9	8
23	Synthesis of fluorinated polycarbonate-based polyurethane acrylate for UV-curable coatings. 2017 , 14, 233-241		7
22	Outstanding telechelic perfluoropolyalkylethers and applications therefrom. <i>Progress in Polymer Science</i> , 2018 , 81, 238-280	29.6	37
21	Coating properties of UV-curable polyurethane acrylate composites with lotus leaf powder. <i>Molecular Crystals and Liquid Crystals</i> , 2018 , 660, 110-114	0.5	2
20	Facile and rapid synthesis of efficient epoxy-novolac acrylate / MWCNTs-APTES-ZnO hybrid coating films by UV irradiation: Thermo-mechanical, shape stability, swelling, hydrophobicity and antibacterial properties. <i>Polymer</i> , 2019 , 179, 121621	3.9	6
19	Controlling perfluoropolyalkylether rearrangements at the surface of photocured networks. <i>European Polymer Journal</i> , 2019 , 121, 109285	5.2	5
18	Glass lap joints with UV-cured adhesives: Use of a perfluoropolyether methacrylic resin in the presence of an acrylic silane coupling agent. <i>International Journal of Adhesion and Adhesives</i> , 2019 , 92, 16-22	3.4	5
17	Photopolymerization of maleimide perfluoropolyalkylethers without a photoinitiator. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 699-707	2.5	5
16	UV-curable sol-gel based protective hybrid coatings. <i>Polymer Engineering and Science</i> , 2019 , 59, E146-E154	4.3	2
15	Synthesis of fluorinated polyacrylic acrylate oligomer for the UV-curable coatings. 2019 , 16, 681-688		7
14	Fluorinated polyacrylates containing amino side chains for the surface modification of waterborne epoxy resin. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47091	2.9	4

13	Perfluoropolyalkylether Maleimides for Protection From Oxygen Inhibition and Surface Modification of Photoinitiator-Free UV-Cured Polymers. <i>Frontiers in Materials</i> , 2020 , 6,	4	3
12	Synthesis and Characterization of High-Performance Polymers Based on Perfluoropolyalkyl Ethers Using an Environmentally Friendly Solvent. <i>Langmuir</i> , 2020 , 36, 12513-12520	4	1
11	UV-curable fluorinated polycarbonate polyurethane with improved surface properties. 2020 , 17, 777-783		2
10	Synthesis and application of new types of fluorinated oxetanes. <i>Progress in Organic Coatings</i> , 2020 , 143, 105608	4.8	6
9	Design and synthesis of high-performance polymers with short perfluoroalkyl side groups using an environmentally friendly solvent. <i>European Polymer Journal</i> , 2021 , 142, 110131	5.2	1
8	Vinyl ethers and epoxides photoinduced copolymerization with perfluoropolyalkylether monomers. <i>Colloid and Polymer Science</i> , 2021 , 299, 509-521	2.4	4
7	3D-Printable Fluoropolymer Gas Diffusion Layers for CO Electroreduction. <i>Advanced Materials</i> , 2021 , 33, e2003855	24	24
6	Diversity of Synthetic Approaches to Functionalized Perfluoropolyalkylether Polymers. <i>Macromolecules</i> , 2021 , 54, 521-550	5.5	7
5	Novel perfluoropolyalkylethers monomers: synthesis and photo-induced cationic polymerization. <i>Colloid and Polymer Science</i> , 2021 , 299, 1173-1188	2.4	0
4	A durable coating to prevent stress corrosion effects on the surface strength of annealed glass. <i>Glass Structures and Engineering</i> , 1	1.4	0
3	İft Kİ Olabilen Hidrofob Kaplamalarİ Mekanik, Yİey ve Termal İelliklerinin İçelenmesi. <i>Marmara Fen Bilimleri Dergisi</i> ,		
2	Preparation and antibacterial properties of waterborne UV cured coating modified by quaternary ammonium compounds. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 5042	2.9	2
1	Two-photon photopolymerization directly initiated by spiropyran photochromic molecules. 2023 , 4, 1		0