

Polymers for 3D Printing and Customized Additive Manufacturing

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Rethinking digital manufacturing with polymers. <i>Science</i> , 2017, 358, 1384-1385.	6.0	29
2	Trends in additive manufacturing of chromatographic and membrane materials. <i>Current Opinion in Chemical Engineering</i> , 2017, 18, 90-98.	3.8	14
3	Hyperbranched polyglycerols: recent advances in synthesis, biocompatibility and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9249-9277.	2.9	113
4	Visible Light Photoinitiator for 3D-Printing of Tough Methacrylate Resins. <i>Materials</i> , 2017, 10, 1445.	1.3	96
5	3D printing of photopolymers. <i>Polymer Chemistry</i> , 2018, 9, 1530-1540.	1.9	260
6	3D-Printable ABS Blends with Improved Scratch Resistance and Balanced Mechanical Performance. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3923-3931.	1.8	34
7	Efficient photopolymerization of thick pigmented systems using upconversion nanoparticles-assisted photochemistry. <i>Journal of Polymer Science Part A</i> , 2018, 56, 994-1002.	2.5	46
8	Additive manufacturing of packings for rotating packed beds. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 127, 1-9.	1.8	38
9	Developing Microfluidic Sensing Devices Using 3D Printing. <i>ACS Sensors</i> , 2018, 3, 522-526.	4.0	60
10	4D printed thermally activated self-healing and shape memory polycaprolactone-based polymers. <i>European Polymer Journal</i> , 2018, 101, 169-176.	2.6	156
11	A digital light processing 3D printer for fast and high-precision fabrication of soft pneumatic actuators. <i>Sensors and Actuators A: Physical</i> , 2018, 273, 285-292.	2.0	109
12	Effect of molecular weight, branching and temperature on dynamics of polypropylene melts at very high shear rates. <i>Polymer</i> , 2018, 144, 179-183.	1.8	19
13	3D-Printed Graphene/Poly(lactic Acid) Electrodes Promise High Sensitivity in Electroanalysis. <i>Analytical Chemistry</i> , 2018, 90, 5753-5757.	3.2	205
14	Photoinduced ring-opening polymerisation of <i>l</i> -lactide via a photocaged superbase. <i>Chemical Communications</i> , 2018, 54, 6264-6267.	2.2	36
15	Generalized 3D Printing of Graphene-Based Mixed-Dimensional Hybrid Aerogels. <i>ACS Nano</i> , 2018, 12, 3502-3511.	7.3	214
16	3D Printing All-Aromatic Polyimides Using Stereolithographic 3D Printing of Polyamic Acid Salts. <i>ACS Macro Letters</i> , 2018, 7, 493-497.	2.3	79
17	Multifaceted polymeric materials in three-dimensional processing (3DP) technologies: Current progress and prospects. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1586-1602.	1.6	8
18	Comparison of the mechanobiological performance of bone tissue scaffolds based on different unit cell geometries. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 83, 28-45.	1.5	49

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19	Experimental analysis of heterogeneous shape recovery in 4d printed honeycomb structures. <i>Polymer Testing</i> , 2018, 68, 100-109.	2.3	28
20	Additive manufacturing (3D printing): A review of materials, methods, applications and challenges. <i>Composites Part B: Engineering</i> , 2018, 143, 172-196.	5.9	4,756
21	An Overview on Additive Manufacturing of Polymers. <i>Jom</i> , 2018, 70, 275-283.	0.9	97
22	Two-photon lithography and microscopy of 3D hydrogel scaffolds for neuronal cell growth. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 027009.	0.6	72
23	Zirconia UV-curable colloids for additive manufacturing via hybrid inkjet printing-stereolithography. <i>Materials Letters</i> , 2018, 215, 214-217.	1.3	19
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25	Recent advances in direct ink writing of electronic components and functional devices. <i>Progress in Additive Manufacturing</i> , 2018, 3, 65-86.	2.5	67
26	Enhanced local controllable laser patterning of polymers induced by graphene/polystyrene composites. <i>Materials and Design</i> , 2018, 141, 159-169.	3.3	34
27	A highly efficient waterborne photoinitiator for visible-light-induced three-dimensional printing of hydrogels. <i>Chemical Communications</i> , 2018, 54, 920-923.	2.2	77
28	Vinylsulfonateester: Effiziente Kettenübertragungsreagenzien für verzögerungsfreien 3D-Druck schlagzäher Photopolymere. <i>Angewandte Chemie</i> , 2018, 130, 9305-9310.	1.6	4
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30	Biofabrication strategies for 3D in vitro models and regenerative medicine. <i>Nature Reviews Materials</i> , 2018, 3, 21-37.	23.3	502
31	Hot Lithography vs. room temperature DLP 3D-printing of a dimethacrylate. <i>Additive Manufacturing</i> , 2018, 21, 209-214.	1.7	72
32	Correlating molecular and crystallization dynamics to macroscopic fusion and thermodynamic stability in fused deposition modeling; a model study on polylactides. <i>Polymer</i> , 2018, 142, 348-355.	1.8	61
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34	Tailoring the interfaces in glass fiber-reinforced photopolymer composites. <i>Polymer</i> , 2018, 141, 221-231.	1.8	19
35	Applicability of samarium(III) complexes for the role of luminescent molecular sensors for monitoring progress of photopolymerization processes and control of the thickness of polymer coatings. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 430-440.	2.0	21
36	A hybrid exposure concept for lithography-based additive manufacturing. <i>Additive Manufacturing</i> , 2018, 21, 413-421.	1.7	9

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38	Formulation of 3D Printed Tablet for Rapid Drug Release by Fused Deposition Modeling: Screening Polymers for Drug Release, Drug-Polymer Miscibility and Printability. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 390-401.	1.6	209
39	Fabrication of Metallic Lines by Aerosol Jet Printing: Study of the Effect of Substrate Temperature on the Aspect Ratio. <i>Oriental Journal of Chemistry</i> , 2018, 34, 2777-2781.	0.1	4
40	3D printing technology in orthodontics – review of current applications. <i>Journal of Stomatology</i> , 2018, 71, 356-364.	0.1	12
41	Hot Lithography - New Possibilities in Polymer 3D Printing. <i>Optik & Photonik</i> , 2018, 13, 99-101.	0.3	5
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47	A 3D Printed Cavity Backed 2 nd Order Slotted Waveguide Antenna Array. , 2018, , .		3
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51	3D printing for chemical, pharmaceutical and biological applications. <i>Nature Reviews Chemistry</i> , 2018, 2, 422-436.	13.8	210
52	Extremely Soft, Conductive, and Transparent Ionic Gels by 3D Optical Printing. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800216.	1.1	24
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87	3D-printed miniaturized fluidic tools in chemistry and biology. TrAC - Trends in Analytical Chemistry, 2018, 106, 37-52.	5.8	52
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