

Contents

About the Special Issue Editor	vii
Preface to "Hydrogels in Tissue Engineering"	ix
Esmail Jabbari	
Hydrogels for Cell Delivery	
Reprinted from: <i>Gels</i> 2018 , 4, 58, doi: 10.3390/gels4030058	1
Maurizio Ventre and Paolo A. Netti	
Controlling Cell Functions and Fate with Surfaces and Hydrogels: The Role of Material Features in Cell Adhesion and Signal Transduction	
Reprinted from: <i>Gels</i> 2016 , 2, 12, doi: 10.3390/gels2010012	3
Laura A. Smith Callahan	
Combinatorial Method/High Throughput Strategies for Hydrogel Optimization in Tissue Engineering Applications	
Reprinted from: <i>Gels</i> 2016 , 2, 18, doi: 10.3390/gels2020018	29
Eva C. González-Díaz and Shyni Varghese	
Hydrogels as Extracellular Matrix Analogs	
Reprinted from: <i>Gels</i> 2016 , 2, 20, doi: 10.3390/gels2030020	45
Antonella Sgambato, Laura Cipolla and Laura Russo	
Bioresponsive Hydrogels: Chemical Strategies and Perspectives in Tissue Engineering	
Reprinted from: <i>Gels</i> 2016 , 2, 28, doi: 10.3390/gels2040028	63
Qinyuan Chai, Yang Jiao and Xinjun Yu	
Hydrogels for Biomedical Applications: Their Characteristics and the Mechanisms behind Them	
Reprinted from: <i>Gels</i> 2017 , 3, 6, doi: 10.3390/gels3010006	77
Ivan Hernandez, Alok Kumar and Binata Joddar	
A Bioactive Hydrogel and 3D Printed Polycaprolactone System for Bone Tissue Engineering	
Reprinted from: <i>Gels</i> 2017 , 3, 26, doi: 10.3390/gels3030026	92
Stephanie L. Haag and Matthew T. Bernards	
Polyampholyte Hydrogels in Biomedical Applications	
Reprinted from: <i>Gels</i> 2017 , 3, 41, doi: 10.3390/gels3040041	105
Tao Sun, Qing Shi, Huaping Wang, Xingfu Li, Qiang Huang and Toshio Fukuda	
Microfluidic Spun Alginate Hydrogel Microfibers and Their Application in Tissue Engineering	
Reprinted from: <i>Gels</i> 2018 , 4, 38, doi: 10.3390/gels4020038	119
Hiroyuki Ijima, Shintaro Nakamura, Ronald Bual, Nana Shirakigawa and Shuichi Tanoue	
Physical Properties of the Extracellular Matrix of Decellularized Porcine Liver	
Reprinted from: <i>Gels</i> 2018 , 4, 39, doi: 10.3390/gels4020039	130