

# Sidi Ahmed Bencherif

## List of Publications by Citations

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67  
papers

6,136  
citations

31  
h-index

72  
g-index

72  
ext. papers

7,168  
ext. citations

7.9  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
67	Hydrogels with tunable stress relaxation regulate stem cell fate and activity. <i>Nature Materials</i> , <b>2016</b> , 15, 326-34	27	1153
66	Harnessing traction-mediated manipulation of the cell/matrix interface to control stem-cell fate. <i>Nature Materials</i> , <b>2010</b> , 9, 518-26	27	1126
65	Substrate stress relaxation regulates cell spreading. <i>Nature Communications</i> , <b>2015</b> , 6, 6364	17.4	485
64	Shear-activated nanotherapeutics for drug targeting to obstructed blood vessels. <i>Science</i> , <b>2012</b> , 337, 738-42	33.3	347
63	Injectable preformed scaffolds with shape-memory properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19590-5	11.5	322
62	Graft Copolymers by a Combination of ATRP and Two Different Consecutive Click Reactions. <i>Macromolecules</i> , <b>2007</b> , 40, 4439-4445	5.5	251
61	Injectable cryogel-based whole-cell cancer vaccines. <i>Nature Communications</i> , <b>2015</b> , 6, 7556	17.4	237
60	Synthesis and characterization of PEG dimethacrylates and their hydrogels. <i>Biomacromolecules</i> , <b>2004</b> , 5, 1280-7	6.9	205
59	Influence of the degree of methacrylation on hyaluronic acid hydrogels properties. <i>Biomaterials</i> , <b>2008</b> , 29, 1739-49	15.6	195
58	Latest Progress in Electrospun Nanofibers for Wound Healing Applications.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 952-969	4.1	142
57	Atom transfer radical polymerization in inverse miniemulsion: A versatile route toward preparation and functionalization of microgels/nanogels for targeted drug delivery applications. <i>Polymer</i> , <b>2009</b> , 50, 4407-4423	3.9	117
56	Nanostructured hybrid hydrogels prepared by a combination of atom transfer radical polymerization and free radical polymerization. <i>Biomaterials</i> , <b>2009</b> , 30, 5270-8	15.6	110
55	Latest Advances in Cryogel Technology for Biomedical Applications. <i>Advanced Therapeutics</i> , <b>2019</b> , 2, 1800114	4.9	105
54	Synthesis by AGET ATRP of degradable nanogel precursors for in situ formation of nanostructured hyaluronic acid hydrogel. <i>Biomacromolecules</i> , <b>2009</b> , 10, 2499-507	6.9	89
53	Cellular uptake of functional nanogels prepared by inverse miniemulsion ATRP with encapsulated proteins, carbohydrates, and gold nanoparticles. <i>Biomacromolecules</i> , <b>2009</b> , 10, 2300-9	6.9	79
52	Advances in the design of macroporous polymer scaffolds for potential applications in dentistry. <i>Journal of Periodontal and Implant Science</i> , <b>2013</b> , 43, 251-61	2	78
51	Injectable Cryogels for Biomedical Applications. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 418-431	15.1	74

50	Injectable, Tough Alginate Cryogels as Cancer Vaccines. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1701469.	6.1	63
49	Synthesis, characterization, and in vitro cell culture viability of degradable poly(N-isopropylacrylamide-co-5,6-benzo-2-methylene-1,3-dioxepane)-based polymers and crosslinked gels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 87, 345-58	5.4	56
48	Tunable CO <sub>2</sub> transport through mixed polyether membranes. <i>Journal of Membrane Science</i> , <b>2005</b> , 251, 51-57	9.6	56
47	Biotin-, Pyrene-, and GRGDS-Functionalized Polymers and Nanogels via ATRP and End Group Modification. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 2179-2193	2.6	55
46	Injectable Hyaluronic Acid-Gelatin Cryogels for Tissue-Engineering Applications. <i>Materials</i> , <b>2018</b> , 11,	3.5	54
45	A compressible scaffold for minimally invasive delivery of large intact neuronal networks. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 301-12	10.1	52
44	Rapid cellular internalization of multifunctional star polymers prepared by atom transfer radical polymerization. <i>Biomacromolecules</i> , <b>2010</b> , 11, 2199-203	6.9	44
43	Extracellular matrix-based cryogels for cartilage tissue engineering. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 93, 1410-1419	7.9	43
42	End-group effects on the properties of PEG-co-PGA hydrogels. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 1872-83	10.8	42
41	Cell-adhesive star polymers prepared by ATRP. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1795-803	6.9	37
40	Vascularization strategies for skin tissue engineering. <i>Biomaterials Science</i> , <b>2020</b> , 8, 4073-4094	7.4	36
39	Influence of cross-linker chemistry on release kinetics of PEG-co-PGA hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 90, 142-53	5.4	34
38	Rapid and extensive collapse from electrically responsive macroporous hydrogels. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 500-7	10.1	32
37	Cell-friendly inverse opal-like hydrogels for a spatially separated co-culture system. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 1578-86	4.8	31
36	Evaluation of Fibrin-Based Interpenetrating Polymer Networks as Potential Biomaterials for Tissue Engineering. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	31
35	Thermoresponsive hydrogel scaffolds with tailored hydrophilic pores. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 128-36	4.5	31
34	Complex fluids based on methacrylated hyaluronic acid. <i>Biomacromolecules</i> , <b>2010</b> , 11, 769-75	6.9	29
33	Oxygen-Releasing Antibacterial Nanofibrous Scaffolds for Tissue Engineering Applications. <i>Polymers</i> , <b>2020</b> , 12,	4.5	22

32	Autoclavable and Injectable Cryogels for Biomedical Applications. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900679	10.1	21
31	Electroconductive Hydrogels for Tissue Engineering: Current Status and Future Perspectives. <i>Bioelectricity</i> , <b>2020</b> , 2, 279-292	2	18
30	The Effect of Poly (Glycerol Sebacate) Incorporation within Hybrid Chitin-Lignin Sol-Gel Nanofibrous Scaffolds. <i>Materials</i> , <b>2018</b> , 11,	3.5	17
29	Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	17
28	Examination of the Covalent Cationization Method Using Narrow Polydisperse Polystyrene. <i>Macromolecules</i> , <b>2005</b> , 38, 1564-1572	5.5	17
27	Synthesis and Characterization of Poly(ethylene glycol) Dimethacrylate Hydrogels. <i>Macromolecular Symposia</i> , <b>2005</b> , 227, 243-254	0.8	16
26	Supramolecular Self-Assembled Peptide-Based Vaccines: Current State and Future Perspectives. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 598160	5	16
25	Biological activities of cytokine-neutralizing hyaluronic acid-antibody conjugates. <i>Wound Repair and Regeneration</i> , <b>2010</b> , 18, 302-10	3.6	15
24	Effect of Polymer Concentration on Autoclaved Cryogel Properties. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 1900824	3.9	12
23	Graphene and Graphene-Based Materials in Biomedical Applications. <i>Current Medicinal Chemistry</i> , <b>2019</b> , 26, 6834-6850	4.3	11
22	Hyaluronic Acid-Based Shape-Memory Cryogel Scaffolds for Focal Cartilage Defect Repair. <i>Tissue Engineering - Part A</i> , <b>2021</b> , 27, 748-760	3.9	10
21	Needle-injectable microcomposite cryogel scaffolds with antimicrobial properties. <i>Scientific Reports</i> , <b>2020</b> , 10, 18370	4.9	9
20	Design principles for cytokine-neutralizing gels: Cross-linking effects. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 4708-150.8	15.8	8
19	MALDI-TOF Mass Spectral Characterization of Covalently Cationized Polystyrene. <i>Macromolecules</i> , <b>2003</b> , 36, 4669-4671	5.5	7
18	Engineering a macroporous fibrin-based sequential interpenetrating polymer network for dermal tissue engineering. <i>Biomaterials Science</i> , <b>2020</b> , 8, 7106-7116	7.4	7
17	Injectable Lignin-Gelatin Cryogels with Antioxidant and Antibacterial Properties for Biomedical Applications. <i>Biomacromolecules</i> , <b>2021</b> , 22, 4110-4121	6.9	7
16	Soft nanofluidics governing minority ion exclusion in charged hydrogels. <i>Soft Matter</i> , <b>2015</b> , 11, 4081-90	3.6	6
15	3D-Printed Hydrogel-Filled Microneedle Arrays. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001922	10.1	6

14	Antimicrobial Hydrogels: Key Considerations and Engineering Strategies for Biomedical Applications <b>2020</b> , 511-542		5
13	Cryogel-Integrated Biochip for Liver Tissue Engineering.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 5617-5626	4.1	5
12	Oxygen-Generating Cryogels Restore T Cell Mediated Cytotoxicity in Hypoxic Tumors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102234	15.6	4
11	Biomaterials and Oxygen Join Forces to Shape the Immune Response and Boost COVID-19 Vaccines. <i>Advanced Science</i> , <b>2021</b> , 8, 2100316	13.6	4
10	Avian Egg: A Multifaceted Biomaterial for Tissue Engineering.. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 17348-17364	3.9	3
9	Oxygen-generating cryogels restore T cell-mediated cytotoxicity in hypoxic tumors		3
8	Harnessing biomaterials for therapeutic strategies against COVID-19. <i>Emergent Materials</i> , <b>2021</b> , 4, 1-10	3.5	3
7	A bioinspired, photostable UV-filter that protects mammalian cells against UV-induced cellular damage. <i>Chemical Communications</i> , <b>2019</b> , 55, 12036-12039	5.8	2
6	Edge-Enhanced Microwell Immunoassay for Highly Sensitive Protein Detection. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10292-10300	7.8	2
5	Latest Advances in 3D Bioprinting of Cardiac Tissues. <i>Advanced Materials Technologies</i> , 2101636	6.8	2
4	Engineering hyaluronic acid-based cryogels for CD44-mediated breast tumor reconstruction.. <i>Materials Today Bio</i> , <b>2022</b> , 13, 100207	9.9	1
3	Strategies to prevent dopamine oxidation and related cytotoxicity using various antioxidants and nitrogenation. <i>Emergent Materials</i> , <b>2019</b> , 2, 209-217	3.5	0
2	Oxygen-Generating Cryogels Restore T Cell Mediated Cytotoxicity in Hypoxic Tumors (Adv. Funct. Mater. 37/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170274	15.6	
1	Polymeric scaffolds for antitumor immune cell priming <b>2022</b> , 63-95		