Sidi Ahmed Bencherif

List of Publications by Year in Descending Order

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	Engineering hyaluronic acid-based cryogels for CD44-mediated breast tumor reconstruction.. *Materials Today Bio*, **2022**, 13, 100207	9.9	1
66	Polymeric scaffolds for antitumor immune cell priming **2022**, 63-95		
65	Avian Egg: A Multifaceted Biomaterial for Tissue Engineering.. *Industrial & Engineering Chemistry Research*, **2021**, 60, 17348-17364	3.9	3
64	3D-Printed Hydrogel-Filled Microneedle Arrays. *Advanced Healthcare Materials*, **2021**, 10, e2001922	10.1	6
63	Oxygen-Generating Cryogels Restore T Cell Mediated Cytotoxicity in Hypoxic Tumors. *Advanced Functional Materials*, **2021**, 31, 2102234	15.6	4
62	Cryogel-Integrated Biochip for Liver Tissue Engineering.. *ACS Applied Bio Materials*, **2021**, 4, 5617-5626	4.1	5
61	Biomaterials and Oxygen Join Forces to Shape the Immune Response and Boost COVID-19 Vaccines. *Advanced Science*, **2021**, 8, 2100316	13.6	4
60	Hyaluronic Acid-Based Shape-Memory Cryogel Scaffolds for Focal Cartilage Defect Repair. *Tissue Engineering - Part A*, **2021**, 27, 748-760	3.9	10
59	Harnessing biomaterials for therapeutic strategies against COVID-19. *Emergent Materials*, **2021**, 4, 1-10	3.5	3
58	Edge-Enhanced Microwell Immunoassay for Highly Sensitive Protein Detection. *Analytical Chemistry* , **2021**, 93, 10292-10300	7.8	2
57	Oxygen-Generating Cryogels Restore T Cell Mediated Cytotoxicity in Hypoxic Tumors (Adv. Funct. Mater. 37/2021). *Advanced Functional Materials*, **2021**, 31, 2170274	15.6	
56	Injectable Lignin--Gelatin Cryogels with Antioxidant and Antibacterial Properties for Biomedical Applications. *Biomacromolecules*, **2021**, 22, 4110-4121	6.9	7
55	Vascularization strategies for skin tissue engineering. *Biomaterials Science*, **2020**, 8, 4073-4094	7.4	36
54	Oxygen-Releasing Antibacterial Nanofibrous Scaffolds for Tissue Engineering Applications. *Polymers*, **2020**, 12,	4.5	22
53	Effect of Polymer Concentration on Autoclaved Cryogel Properties. *Macromolecular Materials and Engineering*, **2020**, 305, 1900824	3.9	12
52	Antimicrobial Hydrogels: Key Considerations and Engineering Strategies for Biomedical Applications **2020**, 511-542		5
51	Injectable Cryogels for Biomedical Applications. *Trends in Biotechnology*, **2020**, 38, 418-431	15.1	74

50	Engineering a macroporous fibrin-based sequential interpenetrating polymer network for dermal tissue engineering. *Biomaterials Science*, **2020**, 8, 7106-7116	7.4	7
49	Needle-injectable microcomposite cryogel scaffolds with antimicrobial properties. *Scientific Reports* , **2020**, 10, 18370	4.9	9
48	Supramolecular Self-Assembled Peptide-Based Vaccines: Current State and Future Perspectives. *Frontiers in Chemistry*, **2020**, 8, 598160	5	16
47	Electroconductive Hydrogels for Tissue Engineering: Current Status and Future Perspectives. *Bioelectricity*, **2020**, 2, 279-292	2	18
46	Latest Progress in Electrospun Nanofibers for Wound Healing Applications.. *ACS Applied Bio Materials*, **2019**, 2, 952-969	4.1	142
45	Strategies to prevent dopamine oxidation and related cytotoxicity using various antioxidants and nitrogenation. *Emergent Materials*, **2019**, 2, 209-217	3.5	0
44	Autoclavable and Injectable Cryogels for Biomedical Applications. *Advanced Healthcare Materials*, **2019**, 8, e1900679	10.1	21
43	Graphene and Graphene-Based Materials in Biomedical Applications. *Current Medicinal Chemistry*, **2019**, 26, 6834-6850	4.3	11
42	Latest Advances in Cryogel Technology for Biomedical Applications. *Advanced Therapeutics*, **2019**, 2, 1800114	4.9	105
41	A bioinspired, photostable UV-filter that protects mammalian cells against UV-induced cellular damage. *Chemical Communications*, **2019**, 55, 12036-12039	5.8	2
40	Injectable, Tough Alginate Cryogels as Cancer Vaccines. *Advanced Healthcare Materials*, **2018**, 7, e1701469	10.1	63
39	The Effect of Poly (Glycerol Sebacate) Incorporation within Hybrid Chitin-Lignin Sol-Gel Nanofibrous Scaffolds. *Materials*, **2018**, 11,	3.5	17
38	Injectable Hyaluronic Acid--Gelatin Cryogels for Tissue-Engineering Applications. *Materials*, **2018**, 11,	3.5	54
37	Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties. *Nanomaterials*, **2017**, 7,	5.4	17
36	Evaluation of Fibrin-Based Interpenetrating Polymer Networks as Potential Biomaterials for Tissue Engineering. *Nanomaterials*, **2017**, 7,	5.4	31
35	Hydrogels with tunable stress relaxation regulate stem cell fate and activity. *Nature Materials*, **2016** , 15, 326-34	27	1153
34	Extracellular matrix-based cryogels for cartilage tissue engineering. *International Journal of Biological Macromolecules*, **2016**, 93, 1410-1419	7.9	43
33	Soft nanofluidics governing minority ion exclusion in charged hydrogels. *Soft Matter*, **2015**, 11, 4081-90	3.6	6

32	Injectable cryogel-based whole-cell cancer vaccines. *Nature Communications*, **2015**, 6, 7556	17.4	237
31	A compressible scaffold for minimally invasive delivery of large intact neuronal networks. *Advanced Healthcare Materials*, **2015**, 4, 301-12	10.1	52
30	Substrate stress relaxation regulates cell spreading. *Nature Communications*, **2015**, 6, 6364	17.4	485
29	Cell-friendly inverse opal-like hydrogels for a spatially separated co-culture system. *Macromolecular Rapid Communications*, **2014**, 35, 1578-86	4.8	31
28	Rapid and extensive collapse from electrically responsive macroporous hydrogels. *Advanced Healthcare Materials*, **2014**, 3, 500-7	10.1	32
27	Advances in the design of macroporous polymer scaffolds for potential applications in dentistry. *Journal of Periodontal and Implant Science*, **2013**, 43, 251-61	2	78
26	Injectable preformed scaffolds with shape-memory properties. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 19590-5	11.5	322
25	Shear-activated nanotherapeutics for drug targeting to obstructed blood vessels. *Science*, **2012**, 337, 738-42	33.3	347
24	Thermoresponsive hydrogel scaffolds with tailored hydrophilic pores. *Chemistry - an Asian Journal*, **2011**, 6, 128-36	4.5	31
23	Harnessing traction-mediated manipulation of the cell/matrix interface to control stem-cell fate. *Nature Materials*, **2010**, 9, 518-26	27	1126
22	Complex fluids based on methacrylated hyaluronic acid. *Biomacromolecules*, **2010**, 11, 769-75	6.9	29
21	Rapid cellular internalization of multifunctional star polymers prepared by atom transfer radical polymerization. *Biomacromolecules*, **2010**, 11, 2199-203	6.9	44
20	Design principles for cytokine-neutralizing gels: Cross-linking effects. *Acta Biomaterialia*, **2010**, 6, 4708-15	10.8	8
19	Biological activities of cytokine-neutralizing hyaluronic acid-antibody conjugates. *Wound Repair and Regeneration*, **2010**, 18, 302-10	3.6	15
18	Influence of cross-linker chemistry on release kinetics of PEG-co-PGA hydrogels. *Journal of Biomedical Materials Research - Part A*, **2009**, 90, 142-53	5.4	34
17	Atom transfer radical polymerization in inverse miniemulsion: A versatile route toward preparation and functionalization of microgels/nanogels for targeted drug delivery applications. *Polymer*, **2009**, 50, 4407-4423	3.9	117
16	Nanostructured hybrid hydrogels prepared by a combination of atom transfer radical polymerization and free radical polymerization. *Biomaterials*, **2009**, 30, 5270-8	15.6	110
15	End-group effects on the properties of PEG-co-PGA hydrogels. *Acta Biomaterialia*, **2009**, 5, 1872-83	10.8	42

14	Cellular uptake of functional nanogels prepared by inverse miniemulsion ATRP with encapsulated proteins, carbohydrates, and gold nanoparticles. *Biomacromolecules*, **2009**, 10, 2300-9	6.9	79
13	Cell-adhesive star polymers prepared by ATRP. *Biomacromolecules*, **2009**, 10, 1795-803	6.9	37
12	Synthesis by AGET ATRP of degradable nanogel precursors for in situ formation of nanostructured hyaluronic acid hydrogel. *Biomacromolecules*, **2009**, 10, 2499-507	6.9	89
11	Biotin-, Pyrene-, and GRGDS-Functionalized Polymers and Nanogels via ATRP and End Group Modification. *Macromolecular Chemistry and Physics*, **2008**, 209, 2179-2193	2.6	55
10	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. *Journal of Biomedical Materials Research - Part A*, **2008**, 87, 345-58	5.4	56
9	Influence of the degree of methacrylation on hyaluronic acid hydrogels properties. *Biomaterials*, **2008**, 29, 1739-49	15.6	195
8	Graft Copolymers by a Combination of ATRP and Two Different Consecutive Click Reactions. *Macromolecules*, **2007**, 40, 4439-4445	5.5	251
7	Examination of the Covalent Cationization Method Using Narrow Polydisperse Polystyrene. *Macromolecules*, **2005**, 38, 1564-1572	5.5	17
6	Synthesis and Characterization of Poly(ethylene glycol) Dimethacrylate Hydrogels. *Macromolecular Symposia*, **2005**, 227, 243-254	0.8	16
5	Tunable CO2 transport through mixed polyether membranes. *Journal of Membrane Science*, **2005**, 251, 51-57	9.6	56
4	Synthesis and characterization of PEG dimethacrylates and their hydrogels. *Biomacromolecules*, **2004**, 5, 1280-7	6.9	205
3	MALDI□TOF Mass Spectral Characterization of Covalently Cationized Polystyrene. *Macromolecules*, **2003**, 36, 4669-4671	5.5	7
2	Oxygen-generating cryogels restore T cell-mediated cytotoxicity in hypoxic tumors		3
1	Latest Advances in 3D Bioprinting of Cardiac Tissues. *Advanced Materials Technologies*,2101636	6.8	2