

Matt Baker

List of Publications by Year in descending order

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47
papers

1,961
citations

257450

24
h-index

254184

43
g-index

52
all docs

52
docs citations

52
times ranked

2913
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning Hydrogels by Mixing Dynamic Cross-Linkers: Enabling Cell-Instructive Hydrogels and Advanced Bioinks. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101576.	7.6	34
2	Desymmetrization via Activated Esters Enables Rapid Synthesis of Multifunctional Benzene-1,3,5-tricarboxamides and Creation of Supramolecular Hydrogelators. <i>Journal of the American Chemical Society</i> , 2022, 144, 4057-4070.	13.7	13
3	Supramolecular Biomaterials in the Netherlands. <i>Tissue Engineering - Part A</i> , 2022, , .	3.1	3
4	Soft, Dynamic Hydrogel Confinement Improves Kidney Organoid Lumen Morphology and Reduces Epithelial-Mesenchymal Transition in Culture. <i>Advanced Science</i> , 2022, 9, e2200543.	11.2	29
5	4D Printed Shape Morphing Biocompatible Materials Based on Anisotropic Ferromagnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
6	Trends in Double Networks as Bioprintable and Injectable Hydrogel Scaffolds for Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4077-4101.	5.2	37
7	Realizing tissue integration with supramolecular hydrogels. <i>Acta Biomaterialia</i> , 2021, 124, 1-14.	8.3	29
8	Bioprinting Via a Dual-Gel Bioink Based on Poly(Vinyl Alcohol) and Solubilized Extracellular Matrix towards Cartilage Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3901.	4.1	27
9	Bioinspired Development of an In Vitro Engineered Fracture Callus for the Treatment of Critical Long Bone Defects. <i>Advanced Functional Materials</i> , 2021, 31, 2104159.	14.9	4
10	Thiol-ene cross-linked alginate hydrogel encapsulation modulates the extracellular matrix of kidney organoids by reducing abnormal type 1a1 collagen deposition. <i>Biomaterials</i> , 2021, 275, 120976.	11.4	36
11	An efficient and easily adjustable heating stage for digital light processing set-ups. <i>Additive Manufacturing</i> , 2021, 46, 102102.	3.0	8
12	A comparative study of mesenchymal stem cells cultured as cell-only aggregates and in encapsulated hydrogels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, , .	2.7	5
13	Biomimetic double network hydrogels: Combining dynamic and static crosslinks to enable biofabrication and control cell-matrix interactions. <i>Journal of Polymer Science</i> , 2021, 59, 2832-2843.	3.8	18
14	Effects of Fiber Alignment and Coculture with Endothelial Cells on Osteogenic Differentiation of Mesenchymal Stromal Cells. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 11-22.	2.1	9
15	A three-dimensional biomimetic peripheral nerve model for drug testing and disease modelling. <i>Biomaterials</i> , 2020, 257, 120230.	11.4	24
16	Bioprinting: From Tissue and Organ Development to <i>in Vitro</i> Models. <i>Chemical Reviews</i> , 2020, 120, 10547-10607.	47.7	185
17	Strategies to Improve Nanofibrous Scaffolds for Vascular Tissue Engineering. <i>Nanomaterials</i> , 2020, 10, 887.	4.1	30
18	Fabrication of a self-assembled honeycomb nanofibrous scaffold to guide endothelial morphogenesis. <i>Biofabrication</i> , 2020, 12, 045001.	7.1	10

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19	Multivalency Enables Dynamic Supramolecular Host-Guest Hydrogel Formation. <i>Biomacromolecules</i> , 2020, 21, 2208-2217.	5.4	34
20	Dynamic Bioinks to Advance Bioprinting. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901798.	7.6	141
21	Biomedical Uses of Sulfobetaine-Based Zwitterionic Materials. <i>Organic Materials</i> , 2020, 02, 342-357.	2.0	8
22	Self-assembly of electrospun nanofibers into gradient honeycomb structures. <i>Materials and Design</i> , 2019, 168, 107614.	7.0	35
23	Polymers for biology, medicine and sustainability. <i>Polymer International</i> , 2019, 68, 1219-1219.	3.1	1
24	Poly(<i>caprolactone-co</i> -trimethylenecarbonate) urethane acrylate resins for digital light processing of bioresorbable tissue engineering implants. <i>Biomaterials Science</i> , 2019, 7, 4984-4989.	5.4	30
25	Fragmentation of organic ions bearing fixed multiple charges observed in MALDI MS. <i>Journal of Mass Spectrometry</i> , 2018, 53, 39-47.	1.6	3
26	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , 2018, 4, 85.	4.5	68
27	Inherently chiral cone-calix[4]arenes via a subsequent upper rim ring-closing/opening methodology. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7255-7264.	2.8	3
28	Thiol-Ene Alginate Hydrogels as Versatile Bioinks for Bioprinting. <i>Biomacromolecules</i> , 2018, 19, 3390-3400.	5.4	146
29	Dynamic diversity of synthetic supramolecular polymers in water as revealed by hydrogen/deuterium exchange. <i>Nature Communications</i> , 2017, 8, 15420.	12.8	54
30	Hydrogels that listen to cells: a review of cell-responsive strategies in biomaterial design for tissue regeneration. <i>Materials Horizons</i> , 2017, 4, 1020-1040.	12.2	144
31	Tailoring surface nanoroughness of electrospun scaffolds for skeletal tissue engineering. <i>Acta Biomaterialia</i> , 2017, 59, 82-93.	8.3	93
32	Patterning Vasculature: The Role of Biofabrication to Achieve an Integrated Multicellular Ecosystem. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1694-1709.	5.2	25
33	Selective and Sequential Aminolysis of Benzotrifuranone: Synergism of Electronic Effects and Ring Strain Gradient. <i>Journal of Organic Chemistry</i> , 2016, 81, 9279-9288.	3.2	12
34	Effect of H-Bonding on Order Amplification in the Growth of a Supramolecular Polymer in Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 13985-13995.	13.7	88
35	Exposing Differences in Monomer Exchange Rates of Multicomponent Supramolecular Polymers in Water. <i>ChemBioChem</i> , 2016, 17, 207-213.	2.6	30
36	Supramolecular polymerisation in water; elucidating the role of hydrophobic and hydrogen-bond interactions. <i>Soft Matter</i> , 2016, 12, 2887-2893.	2.7	72

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37	Supramolecular polymers for organocatalysis in water. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7711-7719.	2.8	44
38	ACE2/Ang-(1-7)/Mas axis stimulates vascular repair-relevant functions of CD34 ⁺ cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1697-H1707.	3.2	40
39	Synthesis, Optical Properties, and Electronic Structures of Nucleobase-Containing π -Conjugated Oligomers. <i>Journal of Organic Chemistry</i> , 2015, 80, 1828-1840.	3.2	27
40	Consequences of chirality on the dynamics of a water-soluble supramolecular polymer. <i>Nature Communications</i> , 2015, 6, 6234.	12.8	111
41	Supramolecular copolymers with stimuli-responsive sequence control. <i>Chemical Communications</i> , 2015, 51, 16166-16168.	4.1	18
42	From supramolecular polymers to hydrogel materials. <i>Materials Horizons</i> , 2014, 1, 116-120.	12.2	46
43	Molecular multifunctionalization via electronically coupled lactones. <i>Chemical Science</i> , 2012, 3, 1095.	7.4	13
44	ACE2 Activation Promotes Antithrombotic Activity. <i>Molecular Medicine</i> , 2010, 16, 210-215.	4.4	122
45	Rapid access to C 3- and C s-symmetric AAT organogelators via ring opening of a common benzotrifuranone precursor. <i>Supramolecular Chemistry</i> , 2010, 22, 789-802.	1.2	8
46	Benzotrifuranone: Synthesis, Structure, and Access to Polycyclic Heteroaromatics. <i>Organic Letters</i> , 2009, 11, 4314-4317.	4.6	27
47	Electrospun Scaffolds Functionalized with a Hydrogen Sulfide Donor Stimulate Angiogenesis. <i>ACS Applied Materials & Interfaces</i> , 0, , .	8.0	2