

Kaitlin M Bratlie

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

2,805

citations

25

h-index

52

g-index

66

ext. papers

3,105

ext. citations

8.8

avg, IF

5.23

L-index

#	Paper	IF	Citations
63	Platinum nanoparticle shape effects on benzene hydrogenation selectivity. <i>Nano Letters</i> , 2007 , 7, 3097-1015	10.1	747
62	Combinatorial hydrogel library enables identification of materials that mitigate the foreign body response in primates. <i>Nature Biotechnology</i> , 2016 , 34, 345-52	44.5	302
61	A reactive oxide overlayer on rhodium nanoparticles during CO oxidation and its size dependence studied by in situ ambient-pressure X-ray photoelectron spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8893-6	16.4	245
60	Polymeric multifunctional nanomaterials for theranostics. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6856-6870	7.9	122
59	Core-shell hydrogel microcapsules for improved islets encapsulation. <i>Advanced Healthcare Materials</i> , 2013 , 2, 667-72	10.1	118
58	Materials for diabetes therapeutics. <i>Advanced Healthcare Materials</i> , 2012 , 1, 267-84	10.1	111
57	Real-time in vivo detection of biomaterial-induced reactive oxygen species. <i>Biomaterials</i> , 2011 , 32, 1796-806	8.0	96
56	Structure effects of benzene hydrogenation studied with sum frequency generation vibrational spectroscopy and kinetics on Pt(111) and Pt(100) single-crystal surfaces. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17925-30	3.4	78
55	Hydrogen and deuterium exchange on Pt(111) and its poisoning by carbon monoxide studied by surface sensitive high-pressure techniques. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13229-34	16.4	75
54	Dynamics of surface catalyzed reactions; the roles of surface defects, surface diffusion, and hot electrons. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20014-22	3.4	59
53	Rapid biocompatibility analysis of materials via in vivo fluorescence imaging of mouse models. <i>PLoS ONE</i> , 2010 , 5, e10032	3.7	52
52	Chemically Modified Gellan Gum Hydrogels with Tunable Properties for Use as Tissue Engineering Scaffolds. <i>ACS Omega</i> , 2018 , 3, 6998-7007	3.9	47
51	Methods for Implant Acceptance and Wound Healing: Material Selection and Implant Location Modulate Macrophage and Fibroblast Phenotypes. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2575-2594	10.1	45
50	Development of cationic polymer coatings to regulate foreign-body responses. <i>Advanced Materials</i> , 2011 , 23, H189-94	24	43
49	Click Chemistry and Material Selection for Fabrication of Hydrogels in Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2276-2291	5.5	43
48	Altering in vivo macrophage responses with modified polymer properties. <i>Biomaterials</i> , 2015 , 56, 187-97	15.6	42
47	Hydrogenation and dehydrogenation of cyclohexene on Pt(1 0 0): A sum frequency generation vibrational spectroscopic and kinetic study. <i>Surface Science</i> , 2005 , 599, 93-106	1.8	41

46	Macrophage reprogramming: influence of latex beads with various functional groups on macrophage phenotype and phagocytic uptake in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 262-8	5.4	38
45	Sum Frequency Generation Vibrational Spectroscopy of Pyridine Hydrogenation on Platinum Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11865-11868	3.8	36
44	Sum frequency generation vibrational spectroscopic and high-pressure scanning tunneling microscopic studies of benzene hydrogenation on Pt(111). <i>Journal of the American Chemical Society</i> , 2006 , 128, 12810-6	16.4	36
43	pH sensitive methacrylated chitosan hydrogels with tunable physical and chemical properties. <i>Biochemical Engineering Journal</i> , 2018 , 132, 38-46	4.2	33
42	Spatiotemporal effects of a controlled-release anti-inflammatory drug on the cellular dynamics of host response. <i>Biomaterials</i> , 2011 , 32, 4464-70	15.6	31
41	Quantitative Characterization of Collagen in the Fibrotic Capsule Surrounding Implanted Polymeric Microparticles through Second Harmonic Generation Imaging. <i>PLoS ONE</i> , 2015 , 10, e0130386	3.7	29
40	The effect of chemically modified alginates on macrophage phenotype and biomolecule transport. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1707-19	5.4	29
39	Microfabrication of homogenous, asymmetric cell-laden hydrogel capsules. <i>Biomaterials</i> , 2009 , 30, 6896-908	9.0	28
38	In situ sum frequency generation vibrational spectroscopy observation of a reactive surface intermediate during high-pressure benzene hydrogenation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10051-7	3.4	24
37	Effect of surface modification and macrophage phenotype on particle internalization. <i>Biomacromolecules</i> , 2014 , 15, 4102-10	6.9	22
36	The significance of macrophage phenotype in cancer and biomaterials. <i>Clinical and Translational Medicine</i> , 2014 , 3, 62	5.7	20
35	Poly-L-arginine based materials as instructive substrates for fibroblast synthesis of collagen. <i>Biomaterials</i> , 2015 , 63, 47-57	15.6	18
34	Influence of Polymer Chemistry on Cytokine Secretion from Polarized Macrophages. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 166-174	5.5	14
33	Second harmonic generation microscopy of collagen organization in tunable, environmentally responsive alginate hydrogels. <i>Biomaterials Science</i> , 2019 , 7, 1188-1199	7.4	13
32	Improving selective targeting to macrophage subpopulations through modifying liposomes with arginine based materials. <i>Integrative Biology (United Kingdom)</i> , 2017 , 9, 58-67	3.7	13
31	Compensation Effect of Benzene Hydrogenation on Pt(111) and Pt(100) Analyzed by the Selective Energy Transfer Model. <i>Catalysis Letters</i> , 2008 , 121, 173-178	2.8	13
30	Physicochemical properties of liposomal modifiers that shift macrophage phenotype. <i>Materials Science and Engineering C</i> , 2017 , 79, 237-244	8.3	10
29	Investigating the Synergistic Effects of Combined Modified Alginates on Macrophage Phenotype. <i>Polymers</i> , 2016 , 8,	4.5	10

28	How Cross-Linking Mechanisms of Methacrylated Gellan Gum Hydrogels Alter Macrophage Phenotype.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 217-225	4.1	10
27	A Sum Frequency Generation Vibrational Spectroscopic Study of the Adsorption and Reactions of C6Hydrocarbons at High Pressures on Pt(100). <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6837-6845	3.8	9
26	Dead zones in porous catalysts: Concentration profiles and efficiency factors. <i>Catalysis Today</i> , 2011 , 160, 204-212	5.3	8
25	The Influence of Polysaccharides-Based Material on Macrophage Phenotypes. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100031	5.5	8
24	Collagen organization deposited by fibroblasts encapsulated in pH responsive methacrylated alginate hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2934-2943	5.4	8
23	Vitamin C and B as new biomaterials to alter intestinal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1886-1897	5.4	7
22	Soft materials as biological and artificial membranes. <i>Chemical Society Reviews</i> , 2021 , 50, 12679-12701	58.5	6
21	Modeling of reaction-diffusion transport into a core-shell geometry. <i>Journal of Theoretical Biology</i> , 2019 , 460, 204-208	2.3	6
20	Manipulate intestinal organoids with niobium carbide nanosheets. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 479-487	5.4	6
19	Alter macrophage adhesion and modulate their response on hydrophobically modified hydrogels. <i>Biochemical Engineering Journal</i> , 2021 , 165, 107821	4.2	5
18	Effects of arginine-based surface modifications of liposomes for drug delivery in Caco-2 colon carcinoma cells. <i>Biochemical Engineering Journal</i> , 2018 , 139, 8-14	4.2	4
17	Degradation and Remodeling of Epitaxially Grown Collagen Fibrils. <i>Cellular and Molecular Bioengineering</i> , 2019 , 12, 69-84	3.9	4
16	Multimodal imaging of harmonophores and application of high content imaging for early cancer detection. <i>Materials Discovery</i> , 2015 , 1, 10-20		4
15	Fibroblasts treated with macrophage conditioned medium results in phenotypic shifts and changes in collagen organization. <i>Materials Science and Engineering C</i> , 2021 , 122, 111915	8.3	4
14	Identifying Factors of Microparticles Modified with Arginine Derivatives That Induce Phenotypic Shifts in Macrophages. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 946-953	5.5	3
13	Cell Delivery: CoreShell Hydrogel Microcapsules for Improved Islets Encapsulation (Adv. Healthcare Mater. 5/2013). <i>Advanced Healthcare Materials</i> , 2013 , 2, 768-768	10.1	3
12	Transfer of assembled collagen fibrils to flexible substrates for mechanically tunable contact guidance cues. <i>Integrative Biology (United Kingdom)</i> , 2018 , 10, 705-718	3.7	3
11	Effect of surface morphologies and chemistry of paper on deposited collagen. <i>Applied Surface Science</i> , 2019 , 484, 461-469	6.7	2

10	Supramolecular assemblies of alkane functionalized polyethylene glycol copolymers for drug delivery. <i>Materials Science and Engineering C</i> , 2017 , 81, 432-442	8.3	2
9	Poly-l-arginine modifications alter the organization and secretion of collagen in SKH1-E mice. <i>Materials Science and Engineering C</i> , 2020 , 106, 110143	8.3	2
8	The effect of polarized light on the organization of collagen secreted by fibroblasts. <i>Lasers in Medical Science</i> , 2018 , 33, 539-547	3.1	2
7	Effect of RGD functionalization and stiffness of gellan gum hydrogels on macrophage polarization and function. <i>Materials Science and Engineering C</i> , 2021 , 128, 112303	8.3	2
6	Gellan gum-gelatin viscoelastic hydrogels as scaffolds to promote fibroblast differentiation. <i>Materials Science and Engineering C</i> , 2021 , 129, 112370	8.3	2
5	Macrophage Phenotypic Changes on FN-Coated Physical Gradient Hydrogels.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6758-6768	4.1	0
4	Inhibition of MMP-13 with modified polymer particles. <i>Surface Science</i> , 2016 , 648, 371-375	1.8	
3	Regulating Foreign-Body Responses: Development of Cationic Polymer Coatings to Regulate Foreign-Body Responses (Adv. Mater. 24/2011). <i>Advanced Materials</i> , 2011 , 23, H129-H129	24	
2	Microfabrication of Asymmetric, Homogeneous Cell-laden Hydrogel Microcapsules. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1239, 1		
1	Improving selective targeting to cancer-associated fibroblasts by modifying liposomes with arginine based materials. <i>Journal of Drug Targeting</i> , 2021 , 1-14	5.4	