Jin K Montclare

List of Publications by Year
in descending order

63	1,697	236925 25	302126 39
papers	citations	h-index	g-index

66	66	66	2019
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein based biomaterials for therapeutic and diagnostic applications. Progress in Biomedical Engineering, 2022, 4, 012003.	4.9	7
2	From concept to reality: the use and impact of 3D prints as academic tools for high school biology education. Journal of Biological Education, 2022, 56, 528-539.	1.5	4
3	Injectable recombinant block polymer gel for sustained delivery of therapeutic protein in post traumatic osteoarthritis. Biomaterials, 2022, 281, 121370.	11.4	19
4	High-Throughput Microrheology for the Assessment of Protein Gelation Kinetics. Macromolecules, 2022, 55, 1239-1247.	4.8	8
5	Exploring the Viability and Role of Virtual Laboratories in Chemistry Education Using Two Original Modules. Journal of Chemical Education, 2022, 99, 1596-1603.	2.3	3
6	Engineered proteinâ€“iron oxide hybrid biomaterial for MRI-traceable drug encapsulation. Molecular Systems Design and Engineering, 2022, 7, 915-932.	3.4	4
7	Particle-Based Microrheology As a Tool for Characterizing Protein-Based Materials. ACS Biomaterials Science and Engineering, 2022, 8, 2747-2763.	5.2	8
8	Peptides as key components in the design of nonâ€viral vectors for gene delivery. Peptide Science, 2021, 113, e24189.	1.8	5
9	Effect of Divalent Metal Cations on the Conformation, Elastic Behavior, and Controlled Release of a Photocrosslinked Protein Engineered Hydrogel. ACS Applied Bio Materials, 2021, 4, 3587-3597.	4.6	5
10	Free-Standing Photocrosslinked Protein Polymer Hydrogels for Sustained Drug Release. Biomacromolecules, 2021, 22, 1509-1522.	5.4	7
11	Self-assembly of stimuli-responsive coiled-coil fibrous hydrogels. Soft Matter, 2021, 17, 6470-6476.	2.7	18
12	Controlling Drug Absorption, Release, and Erosion of Photopatterned Protein Engineered Hydrogels. Biomacromolecules, 2020, 21, 3608-3619.	5.4	9
13	Enhancing organophosphate hydrolase efficacy via protein engineering and immobilization strategies. Annals of the New York Academy of Sciences, 2020, 1480, 54-72.	3.8	11
14	Recent trends in peptide and protein-based hydrogels. Current Opinion in Structural Biology, 2020, 63, 97-105.	5.7	60
15	Enzyme Catalyzed Hydrolysis of Synthetic Polymers. ACS Symposium Series, 2020, , 47-63.	0.5	0
16	Self-Assembled Protein- and Peptide-Based Nanomaterials. ACS Biomaterials Science and Engineering, 2019, 5, 4132-4147.	5.2	55
17	Thermoresponsive Protein-Engineered Coiled-Coil Hydrogel for Sustained Small Molecule Release. Biomacromolecules, 2019, 20, 3340-3351.	5.4	45
18	A â€˜KAHOOT!â€™ Approach: The Effectiveness of Game-Based Learning for an Advanced Placement Biology Class. Simulation and Gaming, 2019, 50, 832-847.	1.9	29

#	Article	IF	Citations
19	Efficient siRNA delivery and gene silencing using a lipopolypeptide hybrid vector mediated by a caveolae-mediated and temperature-dependent endocytic pathway. Journal of Nanobiotechnology, 2019, 17, 11.	9.1	27
20	Engineered Proteins: Proteinâ€Engineered Functional Materials (Adv. Healthcare Mater. 11/2019). Advanced Healthcare Materials, 2019, 8, 1970047.	7.6	0
21	Proteinâ€Engineered Functional Materials. Advanced Healthcare Materials, 2019, 8, e1801374.	7.6	48
22	Protein-Engineered Nanoscale Micelles for Dynamic ¹⁹F Magnetic Resonance and Therapeutic Drug Delivery. ACS Nano, 2019, 13, 2969-2985.	14.6	39
23	Protein biomaterials for theranostic applications. Molecular Systems Design and Engineering, 2019, 4, 1074-1094.	3.4	4
24	Engineered Coiled-Coil Protein for Delivery of Inverse Agonist for Osteoarthritis. Biomacromolecules, 2018, 19, 1614-1624.	5.4	19
25	Protein Engineered Triblock Polymers Composed of Two SADs: Enhanced Mechanical Properties and Binding Abilities. Biomacromolecules, 2018, 19, 1552-1561.	5.4	26
26	Perspectives on blended learning through the on-line platform, LabLessons, for Chemistry. Journal of Technology and Science Education, 2018, 8, 34.	1.2	3
27	Design and Characterization of Fibers and Bionanocomposites Using the Coiled-Coil Domain of Cartilage Oligomeric Matrix Protein. Methods in Molecular Biology, 2018, 1798, 239-263.	0.9	3
28	Protein based therapeutic delivery agents: Contemporary developments and challenges. Biomaterials, 2017, 134, 91-116.	11.4	75
29	Novel lipoproteoplex delivers Keap1 siRNA based gene therapy to accelerate diabetic wound healing. Biomaterials, 2017, 132, 1-15.	11.4	105
30	Impact of phenylalanines outside the dimer interface on phosphotriesterase stability and function. Molecular BioSystems, 2017, 13, 2092-2106.	2.9	4
31	Efficient Dual siRNA and Drug Delivery Using Engineered Lipoproteoplexes. Biomacromolecules, 2017, 18, 2688-2698.	5.4	14
32	Interactive online physics labs increase high school studentsâ€™ interest. Journal of Technology and Science Education, 2016, 6, 166.	1.2	5
33	Natural Composite Systems for Bioinspired Materials. Advances in Experimental Medicine and Biology, 2016, 940, 143-166.	1.6	7
34	LabLessons: Effects of Electronic Prelabs on Student Engagement and Performance. Journal of Chemical Education, 2016, 93, 2012-2017.	2.3	9
35	Influence of Fluorination on Protein-Engineered Coiled-Coil Fibers. Biomacromolecules, 2015, 16, 1210-1217.	5.4	31
36	Exploring the potential of engineered coiled-coil protein microfibers in drug delivery. Therapeutic Delivery, 2015, 6, 643-646.	2.2	7

#	Article	IF	Citations
37	Tunable Conformation-Dependent Engineered ProteinÂ·Gold Nanoparticle Nanocomposites. Biomacromolecules, 2015, 16, 1706-1713.	5.4	15
38	Long-term efficient gene delivery using polyethylenimine with modified Tat peptide. Biomaterials, 2014, 35, 1705-1715.	11.4	87
39	Using Touch-Screen Technology, Apps, and Blogs To Engage and Sustain High School Studentsâ€™ Interest in Chemistry Topics. Journal of Chemical Education, 2014, 91, 1818-1822.	2.3	16
40	Engineered Coiled-Coil Protein Microfibers. Biomacromolecules, 2014, 15, 3503-3510.	5.4	70
41	Improved Stability and Halfâ€Life of Fluorinated Phosphotriesterase Using Rosetta. ChemBioChem, 2014, 15, 1761-1764.	2.6	16
42	Gene delivery from supercharged coiled-coil protein and cationic lipid hybrid complex. Biomaterials, 2014, 35, 7188-7193.	11.4	23
43	Bionanocomposites: Differential Effects of Cellulose Nanocrystals on Protein Diblock Copolymers. Biomacromolecules, 2013, 14, 4360-4367.	5.4	39
44	Anisotropic nanocrystal arrays organized on protein lattices formed by recombinant clathrin fragments. Journal of Materials Chemistry, 2012, 22, 23335.	6.7	10
45	Characterization and identification of the protein partners of Fn3 domain in FnTm2. Protein Expression and Purification, 2012, 81, 42-48.	1.3	0
46	Development and Implementation of High School Chemistry Modules Using Touch-Screen Technologies. Journal of Chemical Education, 2012, 89, 1012-1018.	2.3	22
47	Modulating Supramolecular Assemblies and Mechanical Properties of Engineered Protein Materials by Fluorinated Amino Acids. Biomacromolecules, 2012, 13, 2273-2278.	5.4	28
48	Effects of Divalent Metals on Nanoscopic Fiber Formation and Small Molecule Recognition of Helical Proteins. Advanced Functional Materials, 2012, 22, 2154-2159.	14.9	30
49	Implementing and Evaluating Mentored Chemistryâ"Biology Technology Lab Modules To Promote Early Interest in Science. Journal of Chemical Education, 2011, 88, 751-754.	2.3	11
50	Artificial Protein Block Polymer Libraries Bearing Two SADs: Effects of Elastin Domain Repeats. Biomacromolecules, 2011, 12, 4240-4246.	5.4	34
51	Modified Tat peptide with cationic lipids enhances gene transfection efficiency via temperature-dependent and caveolae-mediated endocytosis. Journal of Controlled Release, 2011, 152, 278-285.	9.9	55
52	Enhanced Refoldability and Thermoactivity of Fluorinated Phosphotriesterase. ChemBioChem, 2011, 12, 1845-1848.	2.6	45
53	Incorporation of unnatural amino acids for synthetic biology. Molecular BioSystems, 2010, 6, 65-80.	2.9	72
54	Supramolecular assembly and small molecule recognition by genetically engineered protein block polymers composed of two SADs. Molecular BioSystems, 2010, 6, 1662.	2.9	33

#	Article	IF	Citations
55	Biosynthesis and Stability of Coiledâ€Coil Peptides Containing (2S,4R)â€5,5,5â€Trifluoroleucine and (2S,4S)â€5,5,5â€Trifluoroleucine. ChemBioChem, 2009, 10, 84-86.	2.6	67
56	Artificial Protein Block Copolymers Blocks Comprising Two Distinct Selfâ€Assembling Domains. ChemBioChem, 2009, 10, 2733-2735.	2.6	44
57	Positional effects of monofluorinated phenylalanines on histone acetyltransferase stability and activity. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5449-5451.	2.2	24
58	N-Terminal Aliphatic Residues Dictate the Structure, Stability, Assembly, and Small Molecule Binding of the Coiled-Coil Region of Cartilage Oligomeric Matrix Protein. Biochemistry, 2009, 48, 8559-8567.	2.5	68
59	Assembly of bioinspired helical protein fibers. Polymers for Advanced Technologies, 2008, 19, 454-468.	3.2	28
60	Elastin-Based Protein Polymers. ACS Symposium Series, 2008, , 37-51.	0.5	6
61	Fluorinated chloramphenicol acetyltransferase thermostability and activity profile: Improved thermostability by a single-isoleucine mutant. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 5907-5911.	2.2	13
62	Influence of global fluorination on chloramphenicol acetyltransferase activity and stability. Biotechnology and Bioengineering, 2006, 94, 921-930.	3.3	32
63	Evolving Proteins of Novel Composition. Angewandte Chemie - International Edition, 2006, 45, 4518-4521.	13.8	65