

Jin K Montclare

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,697
citations

236925

25
h-index

302126

39
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66
all docs

66
docs citations

66
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel lipoproteoplex delivers Keap1 siRNA based gene therapy to accelerate diabetic wound healing. <i>Biomaterials</i> , 2017, 132, 1-15.	11.4	105
2	Long-term efficient gene delivery using polyethylenimine with modified Tat peptide. <i>Biomaterials</i> , 2014, 35, 1705-1715.	11.4	87
3	Protein based therapeutic delivery agents: Contemporary developments and challenges. <i>Biomaterials</i> , 2017, 134, 91-116.	11.4	75
4	Incorporation of unnatural amino acids for synthetic biology. <i>Molecular BioSystems</i> , 2010, 6, 65-80.	2.9	72
5	Engineered Coiled-Coil Protein Microfibers. <i>Biomacromolecules</i> , 2014, 15, 3503-3510.	5.4	70
6	N-Terminal Aliphatic Residues Dictate the Structure, Stability, Assembly, and Small Molecule Binding of the Coiled-Coil Region of Cartilage Oligomeric Matrix Protein. <i>Biochemistry</i> , 2009, 48, 8559-8567.	2.5	68
7	Biosynthesis and Stability of Coiled-Coil Peptides Containing (2 <i>S</i> ,4 <i>R</i>)-5,5-Trifluoroisoleucine and (2 <i>S</i> ,4 <i>S</i>)-5,5-Trifluoroisoleucine. <i>ChemBioChem</i> , 2009, 10, 84-86.	2.6	67
8	Evolving Proteins of Novel Composition. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4518-4521.	13.8	65
9	Recent trends in peptide and protein-based hydrogels. <i>Current Opinion in Structural Biology</i> , 2020, 63, 97-105.	5.7	60
10	Modified Tat peptide with cationic lipids enhances gene transfection efficiency via temperature-dependent and caveolae-mediated endocytosis. <i>Journal of Controlled Release</i> , 2011, 152, 278-285.	9.9	55
11	Self-Assembled Protein- and Peptide-Based Nanomaterials. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4132-4147.	5.2	55
12	Protein-Engineered Functional Materials. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801374.	7.6	48
13	Enhanced Refoldability and Thermoactivity of Fluorinated Phosphotriesterase. <i>ChemBioChem</i> , 2011, 12, 1845-1848.	2.6	45
14	Thermoresponsive Protein-Engineered Coiled-Coil Hydrogel for Sustained Small Molecule Release. <i>Biomacromolecules</i> , 2019, 20, 3340-3351.	5.4	45
15	Artificial Protein Block Copolymers Blocks Comprising Two Distinct Self-Assembling Domains. <i>ChemBioChem</i> , 2009, 10, 2733-2735.	2.6	44
16	Bionanocomposites: Differential Effects of Cellulose Nanocrystals on Protein Diblock Copolymers. <i>Biomacromolecules</i> , 2013, 14, 4360-4367.	5.4	39
17	Protein-Engineered Nanoscale Micelles for Dynamic ¹⁹ F Magnetic Resonance and Therapeutic Drug Delivery. <i>ACS Nano</i> , 2019, 13, 2969-2985.	14.6	39
18	Artificial Protein Block Polymer Libraries Bearing Two SADs: Effects of Elastin Domain Repeats. <i>Biomacromolecules</i> , 2011, 12, 4240-4246.	5.4	34

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19	Supramolecular assembly and small molecule recognition by genetically engineered protein block polymers composed of two SADs. <i>Molecular BioSystems</i> , 2010, 6, 1662.	2.9	33
20	Influence of global fluorination on chloramphenicol acetyltransferase activity and stability. <i>Biotechnology and Bioengineering</i> , 2006, 94, 921-930.	3.3	32
21	Influence of Fluorination on Protein-Engineered Coiled-Coil Fibers. <i>Biomacromolecules</i> , 2015, 16, 1210-1217.	5.4	31
22	Effects of Divalent Metals on Nanoscopic Fiber Formation and Small Molecule Recognition of Helical Proteins. <i>Advanced Functional Materials</i> , 2012, 22, 2154-2159.	14.9	30
23	A "KAHOOT!"™ Approach: The Effectiveness of Game-Based Learning for an Advanced Placement Biology Class. <i>Simulation and Gaming</i> , 2019, 50, 832-847.	1.9	29
24	Assembly of bioinspired helical protein fibers. <i>Polymers for Advanced Technologies</i> , 2008, 19, 454-468.	3.2	28
25	Modulating Supramolecular Assemblies and Mechanical Properties of Engineered Protein Materials by Fluorinated Amino Acids. <i>Biomacromolecules</i> , 2012, 13, 2273-2278.	5.4	28
26	Efficient siRNA delivery and gene silencing using a lipopolyptide hybrid vector mediated by a caveolae-mediated and temperature-dependent endocytic pathway. <i>Journal of Nanobiotechnology</i> , 2019, 17, 11.	9.1	27
27	Protein Engineered Triblock Polymers Composed of Two SADs: Enhanced Mechanical Properties and Binding Abilities. <i>Biomacromolecules</i> , 2018, 19, 1552-1561.	5.4	26
28	Positional effects of monofluorinated phenylalanines on histone acetyltransferase stability and activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 5449-5451.	2.2	24
29	Gene delivery from supercharged coiled-coil protein and cationic lipid hybrid complex. <i>Biomaterials</i> , 2014, 35, 7188-7193.	11.4	23
30	Development and Implementation of High School Chemistry Modules Using Touch-Screen Technologies. <i>Journal of Chemical Education</i> , 2012, 89, 1012-1018.	2.3	22
31	Engineered Coiled-Coil Protein for Delivery of Inverse Agonist for Osteoarthritis. <i>Biomacromolecules</i> , 2018, 19, 1614-1624.	5.4	19
32	Injectable recombinant block polymer gel for sustained delivery of therapeutic protein in post traumatic osteoarthritis. <i>Biomaterials</i> , 2022, 281, 121370.	11.4	19
33	Self-assembly of stimuli-responsive coiled-coil fibrous hydrogels. <i>Soft Matter</i> , 2021, 17, 6470-6476.	2.7	18
34	Using Touch-Screen Technology, Apps, and Blogs To Engage and Sustain High School Students'™ Interest in Chemistry Topics. <i>Journal of Chemical Education</i> , 2014, 91, 1818-1822.	2.3	16
35	Improved Stability and Half-Life of Fluorinated Phosphotriesterase Using Rosetta. <i>ChemBioChem</i> , 2014, 15, 1761-1764.	2.6	16
36	Tunable Conformation-Dependent Engineered Protein-Gold Nanoparticle Nanocomposites. <i>Biomacromolecules</i> , 2015, 16, 1706-1713.	5.4	15

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37	Efficient Dual siRNA and Drug Delivery Using Engineered Lipoproteoplexes. <i>Biomacromolecules</i> , 2017, 18, 2688-2698.	5.4	14
38	Fluorinated chloramphenicol acetyltransferase thermostability and activity profile: Improved thermostability by a single-isoleucine mutant. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 5907-5911.	2.2	13
39	Implementing and Evaluating Mentored Chemistry~Biology Technology Lab Modules To Promote Early Interest in Science. <i>Journal of Chemical Education</i> , 2011, 88, 751-754.	2.3	11
40	Enhancing organophosphate hydrolase efficacy via protein engineering and immobilization strategies. <i>Annals of the New York Academy of Sciences</i> , 2020, 1480, 54-72.	3.8	11
41	Anisotropic nanocrystal arrays organized on protein lattices formed by recombinant clathrin fragments. <i>Journal of Materials Chemistry</i> , 2012, 22, 23335.	6.7	10
42	LabLessons: Effects of Electronic Prelabs on Student Engagement and Performance. <i>Journal of Chemical Education</i> , 2016, 93, 2012-2017.	2.3	9
43	Controlling Drug Absorption, Release, and Erosion of Photopatterned Protein Engineered Hydrogels. <i>Biomacromolecules</i> , 2020, 21, 3608-3619.	5.4	9
44	High-Throughput Microrheology for the Assessment of Protein Gelation Kinetics. <i>Macromolecules</i> , 2022, 55, 1239-1247.	4.8	8
45	Particle-Based Microrheology As a Tool for Characterizing Protein-Based Materials. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2747-2763.	5.2	8
46	Exploring the potential of engineered coiled-coil protein microfibers in drug delivery. <i>Therapeutic Delivery</i> , 2015, 6, 643-646.	2.2	7
47	Natural Composite Systems for Bioinspired Materials. <i>Advances in Experimental Medicine and Biology</i> , 2016, 940, 143-166.	1.6	7
48	Free-Standing Photocrosslinked Protein Polymer Hydrogels for Sustained Drug Release. <i>Biomacromolecules</i> , 2021, 22, 1509-1522.	5.4	7
49	Protein based biomaterials for therapeutic and diagnostic applications. <i>Progress in Biomedical Engineering</i> , 2022, 4, 012003.	4.9	7
50	Elastin-Based Protein Polymers. <i>ACS Symposium Series</i> , 2008, , 37-51.	0.5	6
51	Interactive online physics labs increase high school students's™ interest. <i>Journal of Technology and Science Education</i> , 2016, 6, 166.	1.2	5
52	Peptides as key components in the design of non~viral vectors for gene delivery. <i>Peptide Science</i> , 2021, 113, e24189.	1.8	5
53	Effect of Divalent Metal Cations on the Conformation, Elastic Behavior, and Controlled Release of a Photocrosslinked Protein Engineered Hydrogel. <i>ACS Applied Bio Materials</i> , 2021, 4, 3587-3597.	4.6	5
54	Impact of phenylalanines outside the dimer interface on phosphotriesterase stability and function. <i>Molecular BioSystems</i> , 2017, 13, 2092-2106.	2.9	4

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55	Protein biomaterials for theranostic applications. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 1074-1094.	3.4	4
56	From concept to reality: the use and impact of 3D prints as academic tools for high school biology education. <i>Journal of Biological Education</i> , 2022, 56, 528-539.	1.5	4
57	Engineered protein-iron oxide hybrid biomaterial for MRI-traceable drug encapsulation. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 915-932.	3.4	4
58	Perspectives on blended learning through the on-line platform, LabLessons, for Chemistry. <i>Journal of Technology and Science Education</i> , 2018, 8, 34.	1.2	3
59	Design and Characterization of Fibers and Bionanocomposites Using the Coiled-Coil Domain of Cartilage Oligomeric Matrix Protein. <i>Methods in Molecular Biology</i> , 2018, 1798, 239-263.	0.9	3
60	Exploring the Viability and Role of Virtual Laboratories in Chemistry Education Using Two Original Modules. <i>Journal of Chemical Education</i> , 2022, 99, 1596-1603.	2.3	3
61	Characterization and identification of the protein partners of Fn3 domain in FnTm2. <i>Protein Expression and Purification</i> , 2012, 81, 42-48.	1.3	0
62	Engineered Proteins: Protein-Engineered Functional Materials (<i>Adv. Healthcare Mater.</i> 11/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970047.	7.6	0
63	Enzyme Catalyzed Hydrolysis of Synthetic Polymers. <i>ACS Symposium Series</i> , 2020, , 47-63.	0.5	0