

# Jin Kim Montclare

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,418  
citations

279798

23  
h-index

330143

37  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1624  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and Functional Studies of <i>Aspergillus oryzae</i> Cutinase: Enhanced Thermostability and Hydrolytic Activity of Synthetic Ester and Polyester Degradation. <i>Journal of the American Chemical Society</i> , 2009, 131, 15711-15716.	13.7	112
2	Identification and comparison of cutinases for synthetic polyester degradation. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 229-240.	3.6	95
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-Trifluoro-leucine and (2 <i>S</i> ,4 <i>S</i> )-5,5-Trifluoro-leucine. <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	Miniature Homeodomains: High Specificity without an N-Terminal Arm. <i>Journal of the American Chemical Society</i> , 2003, 125, 3416-3417.	13.7	64
10	Recent trends in peptide and protein-based hydrogels. <i>Current Opinion in Structural Biology</i> , 2020, 63, 97-105.	5.7	60
11	Protein-Engineered Functional Materials. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801374.	7.6	48
12	Enhanced Refoldability and Thermoactivity of Fluorinated Phosphotriesterase. <i>ChemBioChem</i> , 2011, 12, 1845-1848.	2.6	45
13	Thermoresponsive Protein-Engineered Coiled-Coil Hydrogel for Sustained Small Molecule Release. <i>Biomacromolecules</i> , 2019, 20, 3340-3351.	5.4	45
14	Bionanocomposites: Differential Effects of Cellulose Nanocrystals on Protein Diblock Copolymers. <i>Biomacromolecules</i> , 2013, 14, 4360-4367.	5.4	39
15	Protein-Engineered Nanoscale Micelles for Dynamic <sup>19</sup> F Magnetic Resonance and Therapeutic Drug Delivery. <i>ACS Nano</i> , 2019, 13, 2969-2985.	14.6	39
16	Artificial Protein Block Polymer Libraries Bearing Two SADs: Effects of Elastin Domain Repeats. <i>Biomacromolecules</i> , 2011, 12, 4240-4246.	5.4	34
17	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
18	Influence of global fluorination on chloramphenicol acetyltransferase activity and stability. <i>Biotechnology and Bioengineering</i> , 2006, 94, 921-930.	3.3	32

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19	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
20	Assembly of bioinspired helical protein fibers. <i>Polymers for Advanced Technologies</i> , 2008, 19, 454-468.	3.2	28
21	Modulating Supramolecular Assemblies and Mechanical Properties of Engineered Protein Materials by Fluorinated Amino Acids. <i>Biomacromolecules</i> , 2012, 13, 2273-2278.	5.4	28
22	Protein Engineered Triblock Polymers Composed of Two SADs: Enhanced Mechanical Properties and Binding Abilities. <i>Biomacromolecules</i> , 2018, 19, 1552-1561.	5.4	26
23	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
24	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
25	Injectable recombinant block polymer gel for sustained delivery of therapeutic protein in post traumatic osteoarthritis. <i>Biomaterials</i> , 2022, 281, 121370.	11.4	19
26	Self-assembly of stimuli-responsive coiled-coil fibrous hydrogels. <i>Soft Matter</i> , 2021, 17, 6470-6476.	2.7	18
27	Improved Stability and Half-Life of Fluorinated Phosphotriesterase Using Rosetta. <i>ChemBioChem</i> , 2014, 15, 1761-1764.	2.6	16
28	Tunable Conformation-Dependent Engineered Protein-Gold Nanoparticle Nanocomposites. <i>Biomacromolecules</i> , 2015, 16, 1706-1713.	5.4	15
29	Efficient Dual siRNA and Drug Delivery Using Engineered Lipoproteoplexes. <i>Biomacromolecules</i> , 2017, 18, 2688-2698.	5.4	14
30	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
31	Modulating substrate specificity of histone acetyltransferase with unnatural amino acids. <i>Molecular BioSystems</i> , 2011, 7, 3050.	2.9	12
32	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
33	Integrating Technology in STEM Education. <i>Journal of Technology and Science Education</i> , 2015, 5, .	1.2	7
34	Exploring the potential of engineered coiled-coil protein microfibers in drug delivery. <i>Therapeutic Delivery</i> , 2015, 6, 643-646.	2.2	7
35	Natural Composite Systems for Bioinspired Materials. <i>Advances in Experimental Medicine and Biology</i> , 2016, 940, 143-166.	1.6	7
36	Free-Standing Photocrosslinked Protein Polymer Hydrogels for Sustained Drug Release. <i>Biomacromolecules</i> , 2021, 22, 1509-1522.	5.4	7

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37	Protein based biomaterials for therapeutic and diagnostic applications. <i>Progress in Biomedical Engineering</i> , 2022, 4, 012003.	4.9	7
38	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
39	Impact of phenylalanines outside the dimer interface on phosphotriesterase stability and function. <i>Molecular BioSystems</i> , 2017, 13, 2092-2106.	2.9	4
40	Protein biomaterials for theranostic applications. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 1074-1094.	3.4	4
41	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
42	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
43	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
44	Bioinspired Artificial Protein Materials: Self-Assembly and Order from Nano to Macroscale. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1301, 155.	0.1	0