

Olga V Makhlynets

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

731
citations

687220

13
h-index

552653

26
g-index

30
all docs

30
docs citations

30
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Short Self-Assembling Peptides Are Able to Bind to Copper and Activate Oxygen. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9017-9020.	7.2	106
2	Zinc-binding structure of a catalytic amyloid from solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6191-6196.	3.3	102
3	Copper-Containing Catalytic Amyloids Promote Phosphoester Hydrolysis and Tandem Reactions. <i>ACS Catalysis</i> , 2018, 8, 59-62.	5.5	81
4	New Tricks for Old Proteins: Single Mutations in a Nonenzymatic Protein Give Rise to Various Enzymatic Activities. <i>Journal of the American Chemical Society</i> , 2015, 137, 14905-14911.	6.6	68
5	Design of Allosterically Regulated Protein Catalysts. <i>Biochemistry</i> , 2015, 54, 1444-1456.	1.2	52
6	Genetic Characterization and Role in Virulence of the Ribonucleotide Reductases of <i>Streptococcus sanguinis</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 6273-6287.	1.6	50
7	Design of Catalytic Peptides and Proteins Through Rational and Combinatorial Approaches. <i>Annual Review of Biomedical Engineering</i> , 2016, 18, 311-328.	5.7	48
8	<i>Streptococcus sanguinis</i> Class Ib Ribonucleotide Reductase. <i>Journal of Biological Chemistry</i> , 2014, 289, 6259-6272.	1.6	45
9	Nine-Residue Peptide Self-Assembles in the Presence of Silver to Produce a Self-Healing, Cytocompatible, Antimicrobial Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17091-17099.	4.0	36
10	Short Self-Assembling Peptides Are Able to Bind to Copper and Activate Oxygen. <i>Angewandte Chemie</i> , 2016, 128, 9163-9166.	1.6	20
11	Design of Catalytically Amplified Sensors for Small Molecules. <i>Biomolecules</i> , 2014, 4, 402-418.	1.8	18
12	A single amino acid enzyme. <i>Nature Catalysis</i> , 2019, 2, 949-950.	16.1	17
13	Peptide hydrogel with self-healing and redox-responsive properties. <i>Nano Convergence</i> , 2022, 9, 18.	6.3	14
14	Characteristics and therapeutic applications of antimicrobial peptides. <i>Biophysics Reviews</i> , 2021, 2, .	1.0	12
15	Functional Frankensteins. <i>Nature Chemistry</i> , 2016, 8, 823-824.	6.6	9
16	Beneficial Impacts of Incorporating the Non-Natural Amino Acid Azulenyl-Alanine into the Trp-Rich Antimicrobial Peptide buCATHL4B. <i>Biomolecules</i> , 2021, 11, 421.	1.8	9
17	Functional tuning of the catalytic residue pK _a in a <i>de novo</i> designed esterase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1656-1665.	1.5	8
18	Uno Ferro, a <i>de novo</i> Designed Protein, Binds Transition Metals with High Affinity and Stabilizes Semiquinone Radical Anion. <i>Chemistry - A European Journal</i> , 2019, 25, 15252-15256.	1.7	7

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19	Secretion of functional formate dehydrogenase in <i>Pichia pastoris</i> . <i>Protein Engineering, Design and Selection</i> , 2017, 30, 279-284.	1.0	6
20	Contributions of primary coordination ligands and importance of outer sphere interactions in UFsc, a de novo designed protein with high affinity for metal ions. <i>Journal of Inorganic Biochemistry</i> , 2020, 212, 111224.	1.5	5
21	Catalytic Amyloid Fibrils That Bind Copper to Activate Oxygen. <i>Methods in Molecular Biology</i> , 2017, 1596, 59-68.	0.4	3
22	Kemp Eliminases of the AlleyCat Family Possess High Substrate Promiscuity. <i>ChemCatChem</i> , 2019, 11, 1425-1430.	1.8	3
23	Covalent Linkage and Macrocyclization Preserve and Enhance Synergistic Interactions in Catalytic Amyloids. <i>ChemBioChem</i> , 2021, 22, 585-591.	1.3	3
24	Mechanistic studies of the cofactor assembly in class Ib ribonucleotide reductases and protein affinity for MnII and FeII. <i>Metallomics</i> , 2021, 13, .	1.0	3
25	Finding a Silver Bullet in a Stack of Proteins. <i>Biochemistry</i> , 2017, 56, 6627-6628.	1.2	2
26	A Designed Enzyme Promotes Selective Post-translational Acylation. <i>ChemBioChem</i> , 2018, 19, 1605-1608.	1.3	2
27	Kemp Eliminases of the AlleyCat Family Possess High Substrate Promiscuity. <i>ChemCatChem</i> , 2019, 11, 1377-1377.	1.8	0