

Vesa HytÄĳnen

List of Publications by Year in descending order

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200
papers

6,143
citations

81743

39
h-index

102304

66
g-index

206
all docs

206
docs citations

206
times ranked

7613
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetically engineered avidins and streptavidins. Cellular and Molecular Life Sciences, 2006, 63, 2992-3017.	2.4	286
2	3D-Printable Bioactivated Nanocellulose-Alginate Hydrogels. ACS Applied Materials & Interfaces, 2017, 9, 21959-21970.	4.0	252
3	Cell Adhesion by Integrins. Physiological Reviews, 2019, 99, 1655-1699.	13.1	250
4	Brave new (strept)avidins in biotechnology. Trends in Biotechnology, 2007, 25, 269-277.	4.9	168
5	Approaching infinite affinity through engineering of peptide-protein interaction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26523-26533.	3.3	163
6	Modern Tools for Rapid Diagnostics of Antimicrobial Resistance. Frontiers in Cellular and Infection Microbiology, 2020, 10, 308.	1.8	156
7	New PI(4,5)P2- and membrane proximal integrin-binding motifs in the talin head control β 3-integrin clustering. Journal of Cell Biology, 2009, 187, 715-731.	2.3	153
8	Dynamic piezoelectric stimulation enhances osteogenic differentiation of human adipose stem cells. Journal of Biomedical Materials Research - Part A, 2015, 103, 2172-2175.	2.1	148
9	How Force Might Activate Talin's Vinculin Binding Sites: SMD Reveals a Structural Mechanism. PLoS Computational Biology, 2008, 4, e24.	1.5	145
10	Internalization of novel non-viral vector TAT-streptavidin into human cells. BMC Biotechnology, 2007, 7, 1.	1.7	119
11	Cationic polymer brush-modified cellulose nanocrystals for high-affinity virus binding. Nanoscale, 2014, 6, 11871-11881.	2.8	92
12	Enhanced Gene Delivery by Avidin-Displaying Baculovirus. Molecular Therapy, 2004, 9, 282-291.	3.7	91
13	Mechanosensing in cell-matrix adhesions - Converting tension into chemical signals. Experimental Cell Research, 2016, 343, 35-41.	1.2	84
14	A comparison of immunogenicity of norovirus GII-4 virus-like particles and P-particles. Immunology, 2012, 135, 89-99.	2.0	83
15	Carbon Nanotubes as Electrodes for Dielectrophoresis of DNA. Nano Letters, 2006, 6, 1339-1343.	4.5	78
16	A comparison of methods for purification and concentration of norovirus GII-4 capsid virus-like particles. Archives of Virology, 2010, 155, 1855-1858.	0.9	77
17	Characterization of the first beta-class carbonic anhydrase from an arthropod (Drosophila) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Biochemistry, 2010, 11, 28.	4.4	72
18	Enteroviral proteases: structure, host interactions and pathogenicity. Reviews in Medical Virology, 2016, 26, 251-267.	3.9	72

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19	Trapping of 27 bp–8 kbp DNA and immobilization of thiol-modified DNA using dielectrophoresis. <i>Nanotechnology</i> , 2007, 18, 295204.	1.3	68
20	Dielectrophoresis of nanoscale double-stranded DNA and humidity effects on its electrical conductivity. <i>Applied Physics Letters</i> , 2005, 87, 183102.	1.5	67
21	Prevalence of norovirus GII.4 antibodies in Finnish children. <i>Journal of Medical Virology</i> , 2011, 83, 525-531.	2.5	67
22	Improved generation of recombinant baculovirus genomes in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2003, 31, 101e-101.	6.5	66
23	Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. <i>Nature Materials</i> , 2020, 19, 669-678.	13.3	66
24	Efficient production of active chicken avidin using a bacterial signal peptide in <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 2004, 384, 385-390.	1.7	64
25	Enhancement of adhesion and promotion of osteogenic differentiation of human adipose stem cells by poled electroactive poly(vinylidene fluoride). <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 919-928.	2.1	63
26	Rational Design of an Active Avidin Monomer. <i>Journal of Biological Chemistry</i> , 2003, 278, 4010-4014.	1.6	62
27	Mechanotransduction in talin through the interaction of the R8 domain with DLC1. <i>PLoS Biology</i> , 2018, 16, e2005599.	2.6	62
28	All Subdomains of the Talin Rod Are Mechanically Vulnerable and May Contribute To Cellular Mechanosensing. <i>ACS Nano</i> , 2016, 10, 6648-6658.	7.3	61
29	Novel Avidin-like Protein from a Root Nodule Symbiotic Bacterium, <i>Bradyrhizobium japonicum</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 13250-13255.	1.6	60
30	A Coxsackievirus B vaccine protects against virus-induced diabetes in an experimental mouse model of type 1 diabetes. <i>Diabetologia</i> , 2018, 61, 476-481.	2.9	58
31	A hexavalent Coxsackievirus B vaccine is highly immunogenic and has a strong protective capacity in mice and nonhuman primates. <i>Science Advances</i> , 2020, 6, eaaz2433.	4.7	55
32	Characterization of poultry egg-white avidins and their potential as a tool in pretargeting cancer treatment. <i>Biochemical Journal</i> , 2003, 372, 219-225.	1.7	52
33	Chicken avidin-related proteins show altered biotin-binding and physico-chemical properties as compared with avidin. <i>Biochemical Journal</i> , 2002, 363, 609-617.	1.7	47
34	Design and Construction of Highly Stable, Protease-resistant Chimeric Avidins. <i>Journal of Biological Chemistry</i> , 2005, 280, 10228-10233.	1.6	47
35	Chicken Avidin-related Protein 4/5 Shows Superior Thermal Stability when Compared with Avidin while Retaining High Affinity to Biotin. <i>Journal of Biological Chemistry</i> , 2004, 279, 9337-9343.	1.6	44
36	A multipurpose vector system for the screening of libraries in bacteria, insect and mammalian cells and expression in vivo. <i>Nucleic Acids Research</i> , 2005, 33, e42-e42.	6.5	44

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37	Crystal Structure of Rhizavidin: Insights into the Enigmatic High-Affinity Interaction of an Innate Biotin-Binding Protein Dimer. <i>Journal of Molecular Biology</i> , 2009, 386, 379-390.	2.0	44
38	Toward Single Electron Nanoelectronics Using Self-Assembled DNA Structure. <i>Nano Letters</i> , 2016, 16, 6780-6786.	4.5	44
39	SERS detection of cell surface and intracellular components of microorganisms using nano-aggregated Ag substrate. <i>Vibrational Spectroscopy</i> , 2016, 83, 36-45.	1.2	44
40	Mechanical stability of talin rod controls cell migration and substrate sensing. <i>Scientific Reports</i> , 2017, 7, 3571.	1.6	44
41	Global Analysis of Human Nonreceptor Tyrosine Kinase Specificity Using High-Density Peptide Microarrays. <i>Journal of Proteome Research</i> , 2014, 13, 4339-4346.	1.8	42
42	Talin-bound NPLY motif recruits integrin-signaling adapters to regulate cell spreading and mechanosensing. <i>Journal of Cell Biology</i> , 2014, 205, 265-281.	2.3	40
43	His-tagged norovirus-like particles: A versatile platform for cellular delivery and surface display. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 22-31.	2.0	39
44	Production and characterization of virus-like particles and the P domain protein of GII.4 norovirus. <i>Journal of Virological Methods</i> , 2012, 179, 1-7.	1.0	38
45	Talin-mediated force transmission and talin rod domain unfolding independently regulate adhesion signaling. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	38
46	Chicken avidin-related proteins show altered biotin-binding and physico-chemical properties as compared with avidin. <i>Biochemical Journal</i> , 2002, 363, 609.	1.7	37
47	Coxsackievirus B3 VLPs purified by ion exchange chromatography elicit strong immune responses in mice. <i>Antiviral Research</i> , 2014, 104, 93-101.	1.9	37
48	Protein conformation as a regulator of cell-matrix adhesion. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6342-6357.	1.3	37
49	Introduction of histidine residues into avidin subunit interfaces allows pH-dependent regulation of quaternary structure and biotin binding. <i>FEBS Letters</i> , 2003, 555, 449-454.	1.3	36
50	Binding Properties of HABA-Type Azo Derivatives to Avidin and Avidin-Related Protein 4. <i>Chemistry and Biology</i> , 2006, 13, 1029-1039.	6.2	36
51	Core-Shell Nanorod Columnar Array Combined with Gold Nanoplate-Nanosphere Assemblies Enable Powerful In Situ SERS Detection of Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24394-24403.	4.0	36
52	Synergistic enhancement via plasmonic nanoplate-bacteria-nanorod supercrystals for highly efficient SERS sensing of food-borne bacteria. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 515-525.	4.0	36
53	Construction of a Dual Chain Pseudotetrameric Chicken Avidin by Combining Two Circularly Permuted Avidins. <i>Journal of Biological Chemistry</i> , 2004, 279, 36715-36719.	1.6	35
54	Chimeric avidin shows stability against harsh chemical conditions-biochemical analysis and 3D structure. <i>Biotechnology and Bioengineering</i> , 2011, 108, 481-490.	1.7	35

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55	Talin and vinculin are downregulated in atherosclerotic plaque; Tampere Vascular Study. <i>Atherosclerosis</i> , 2016, 255, 43-53.	0.4	35
56	Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 507-514.	4.0	34
57	Tetravalent single-chain avidin: from subunits to protein domains via circularly permuted avidins. <i>Biochemical Journal</i> , 2005, 392, 485-491.	1.7	33
58	Association of Neuroimmune Guidance Cue Netrin-1 and Its Chemorepulsive Receptor UNC5B With Atherosclerotic Plaque Expression Signatures and Stability in Human(s). <i>Circulation: Cardiovascular Genetics</i> , 2013, 6, 579-587.	5.1	33
59	Talin2-mediated traction force drives matrix degradation and cell invasion. <i>Journal of Cell Science</i> , 2016, 129, 3661-3674.	1.2	32
60	Enhancing the Thermal Stability of Avidin. <i>Journal of Biological Chemistry</i> , 2003, 278, 2479-2483.	1.6	31
61	High-resolution crystal structure of an avidin-related protein: insight into high-affinity biotin binding and protein stability. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 528-538.	2.5	31
62	Purification of norovirus-like particles (VLPs) by ion exchange chromatography. <i>Journal of Virological Methods</i> , 2012, 181, 6-11.	1.0	31
63	Mutation of the important Tyr-33 residue of chicken avidin: functional and structural consequences. <i>Biochemical Journal</i> , 2003, 369, 249-254.	1.7	30
64	Analysis of a shortened form of human carbonic anhydrase VII expressed in vitro compared to the full-length enzyme. <i>Biochimie</i> , 2010, 92, 1072-1080.	1.3	29
65	Kindlin 3 (FERMT3) is associated with unstable atherosclerotic plaques, anti-inflammatory type II macrophages and upregulation of beta-2 integrins in all major arterial beds. <i>Atherosclerosis</i> , 2015, 242, 145-154.	0.4	29
66	Switchavidin: Reversible Biotin-Avidin Biotin Bridges with High Affinity and Specificity. <i>Bioconjugate Chemistry</i> , 2014, 25, 2233-2243.	1.8	28
67	Dual-affinity avidin molecules. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 597-607.	1.5	27
68	Protein-Protein Interactions: Inhibition of Mammalian Carbonic Anhydrases IX by the Murine Inhibitor of Carbonic Anhydrase and Other Members of the Transferrin Family. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 5529-5535.	2.9	27
69	PIP2 and Talin Join Forces to Activate Integrin. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12381-12389.	1.2	27
70	Optimized production and purification of Coxsackievirus B1 vaccine and its preclinical evaluation in a mouse model. <i>Vaccine</i> , 2017, 35, 3718-3725.	1.7	27
71	Bradavidin II from <i>Bradyrhizobium japonicum</i> : A new avidin-like biotin-binding protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1002-1010.	1.1	26
72	Crystal structure of the FERM-folded talin head reveals the determinants for integrin binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32402-32412.	3.3	26

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73	Avidin related protein 2 shows unique structural and functional features among the avidin protein family. <i>BMC Biotechnology</i> , 2005, 5, 28.	1.7	25
74	Structural and functional characteristics of xenavidin, the first frog avidin from <i>Xenopus tropicalis</i> . <i>BMC Structural Biology</i> , 2009, 9, 63.	2.3	25
75	GFP's Mechanical Intermediate States. <i>PLoS ONE</i> , 2012, 7, e46962.	1.1	25
76	Bi-layer Interferometry: A Novel Method to Elucidate Protein-Protein and Protein-DNA Interactions in the Mitochondrial DNA Replisome. <i>Methods in Molecular Biology</i> , 2016, 1351, 223-231.	0.4	25
77	Rational Modification of Ligand-Binding Preference of Avidin by Circular Permutation and Mutagenesis. <i>ChemBioChem</i> , 2008, 9, 1124-1135.	1.3	24
78	Beta carbonic anhydrases: novel targets for pesticides and anti-parasitic agents in agriculture and livestock husbandry. <i>Parasites and Vectors</i> , 2014, 7, 403.	1.0	24
79	Connection between Absorption Properties and Conformational Changes in <i>Deinococcus radiodurans</i> Phytochrome. <i>Biochemistry</i> , 2014, 53, 7076-7085.	1.2	24
80	Stable immobilisation of His-tagged proteins on BLI biosensor surface using cobalt. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 104-113.	4.0	24
81	Neutralized Chimeric Avidin Binding at a Reference Biosensor Surface. <i>Langmuir</i> , 2015, 31, 1921-1930.	1.6	23
82	Acetaldehyde-derived modifications on cytosolic human carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2011, 26, 862-870.	2.5	22
83	Induction of ligand promiscuity of $\alpha_5\beta_3$ integrin by mechanical force. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	22
84	Comparative analysis of two paradigm bacteriophytochromes reveals opposite functionalities in two-component signaling. <i>Nature Communications</i> , 2021, 12, 4394.	5.8	22
85	Improved antifouling properties and selective biofunctionalization of stainless steel by employing heterobifunctional silane-polyethylene glycol overlayers and avidin-biotin technology. <i>Scientific Reports</i> , 2016, 6, 29324.	1.6	21
86	Horizontal transfer of β -carbonic anhydrase genes from prokaryotes to protozoans, insects, and nematodes. <i>Parasites and Vectors</i> , 2016, 9, 152.	1.0	21
87	Identifying yeasts using surface enhanced Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 218, 299-307.	2.0	21
88	Cyanidin-3-O-glucoside binds to talin and modulates colon cancer cell adhesions and 3D growth. <i>FASEB Journal</i> , 2020, 34, 2227-2237.	0.2	21
89	A comparative study of the effect of UV and formalin inactivation on the stability and immunogenicity of a Coxsackievirus B1 vaccine. <i>Vaccine</i> , 2019, 37, 5962-5971.	1.7	19
90	Combination of three virus-derived nanoparticles as a vaccine against enteric pathogens; enterovirus, norovirus and rotavirus. <i>Vaccine</i> , 2019, 37, 7509-7518.	1.7	19

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91	Biochemical and structural characterisation of a protozoan beta-carbonic anhydrase from <i>Trichomonas vaginalis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1292-1299.	2.5	19
92	Coxsackievirus B Vaccines Prevent Infection-Accelerated Diabetes in NOD Mice and Have No Disease-Inducing Effect. <i>Diabetes</i> , 2021, 70, 2871-2878.	0.3	19
93	Zebavidin - An Avidin-Like Protein from Zebrafish. <i>PLoS ONE</i> , 2013, 8, e77207.	1.1	18
94	Phosphorylated immunoreceptor tyrosine-based activation motifs and integrin cytoplasmic domains activate spleen tyrosine kinase via distinct mechanisms. <i>Journal of Biological Chemistry</i> , 2018, 293, 4591-4602.	1.6	18
95	A novel rat CVB1-VP1 monoclonal antibody 3A6 detects a broad range of enteroviruses. <i>Scientific Reports</i> , 2018, 8, 33.	1.6	18
96	Competition for Membrane Receptors: Norovirus Detachment via Lectin Attachment. <i>Journal of the American Chemical Society</i> , 2019, 141, 16303-16311.	6.6	18
97	The F1 loop of the talin head domain acts as a gatekeeper in integrin activation and clustering. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	18
98	Cancer associated talin point mutations disorganise cell adhesion and migration. <i>Scientific Reports</i> , 2021, 11, 347.	1.6	18
99	β 21D-integrin splice variant stabilizes integrin dynamics and reduces integrin signaling by limiting paxillin recruitment. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	17
100	Structure and characterization of a novel chicken biotin-binding protein A (BBP-A). <i>BMC Structural Biology</i> , 2007, 7, 8.	2.3	16
101	Identification of proprotein convertase substrates using genome-wide expression correlation analysis. <i>BMC Genomics</i> , 2011, 12, 618.	1.2	16
102	The highly dynamic oligomeric structure of bradavidin II is unique among avidin proteins. <i>Protein Science</i> , 2013, 22, 980-994.	3.1	16
103	Synergistic Expression of Histone Deacetylase 9 and Matrix Metalloproteinase 12 in M4 Macrophages in Advanced Carotid Plaques. <i>European Journal of Vascular and Endovascular Surgery</i> , 2017, 53, 632-640.	0.8	16
104	Coordinated multi-cell resource allocation for 5G ultra-reliable low latency communications. , 2017, , .		16
105	Controlling Quaternary Structure Assembly: Subunit Interface Engineering and Crystal Structure of Dual Chain Avidin. <i>Journal of Molecular Biology</i> , 2006, 359, 1352-1363.	2.0	15
106	Defined-size DNA triple crossover construct for molecular electronics: modification, positioning and conductance properties. <i>Nanotechnology</i> , 2011, 22, 275610.	1.3	15
107	Structural and Functional Characteristics of Chimeric Avidins Physically Adsorbed onto Functionalized Polythiophene Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4067-4077.	4.0	15
108	Mechanical unfolding reveals stable 3-helix intermediates in talin and β -catenin. <i>PLoS Computational Biology</i> , 2018, 14, e1006126.	1.5	15

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109	Formalin treatment increases the stability and immunogenicity of coxsackievirus B1 VLP vaccine. <i>Antiviral Research</i> , 2019, 171, 104595.	1.9	15
110	Sulphonamide inhibition profile of <i>Staphylococcus aureus</i> β -carbonic anhydrase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1834-1839.	2.5	15
111	Modular vaccine platform based on the norovirus-like particle. <i>Journal of Nanobiotechnology</i> , 2021, 19, 25.	4.2	15
112	Structural and functional analysis of LIM domain-dependent recruitment of paxillin to β 3 integrin-positive focal adhesions. <i>Communications Biology</i> , 2021, 4, 380.	2.0	15
113	Polyphenols Epigallocatechin Gallate and Resveratrol, and Polyphenol-Functionalized Nanoparticles Prevent Enterovirus Infection through Clustering and Stabilization of the Viruses. <i>Pharmaceutics</i> , 2021, 13, 1182.	2.0	15
114	Bifunctional Avidin with Covalently Modifiable Ligand Binding Site. <i>PLoS ONE</i> , 2011, 6, e16576.	1.1	15
115	Chicken genome analysis reveals novel genes encoding biotin-binding proteins related to avidin family. <i>BMC Genomics</i> , 2005, 6, 41.	1.2	14
116	Reversible Biofunctionalization of Surfaces with a Switchable Mutant of Avidin. <i>Bioconjugate Chemistry</i> , 2013, 24, 1656-1668.	1.8	14
117	Proprotein Convertase Subtilisin/Kexin Type 7 (PCSK7) Is Essential for the Zebrafish Development and Bioavailability of Transforming Growth Factor β 1a (TGF β 1a)*. <i>Journal of Biological Chemistry</i> , 2013, 288, 36610-36623.	1.6	14
118	Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 440-448.	4.0	13
119	Peptide-functionalized chitosan-DNA nanoparticles for cellular targeting. <i>Carbohydrate Polymers</i> , 2012, 89, 948-954.	5.1	13
120	Search for KPNA7 cargo proteins in human cells reveals MVP and ZNF414 as novel regulators of cancer cell growth. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 211-219.	1.8	13
121	New Coxsackievirus 2Apro and 3Cpro protease antibodies for virus detection and discovery of pathogenic mechanisms. <i>Journal of Virological Methods</i> , 2018, 255, 29-37.	1.0	13
122	Involvement of β -Carbonic Anhydrase Genes in Bacterial Genomic Islands and Their Horizontal Transfer to Protists. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	13
123	Extrusion-Based Bioprinting of Multilayered Nanocellulose Constructs for Cell Cultivation Using <i>In Situ</i> Freezing and Preprint CaCl ₂ Cross-Linking. <i>ACS Omega</i> , 2021, 6, 569-578.	1.6	13
124	Versatile bio-ink for covalent immobilization of chimeric avidin on sol-gel substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 409-414.	2.5	12
125	DNA family shuffling within the chicken avidin protein family – A shortcut to more powerful protein tools. <i>Journal of Biotechnology</i> , 2012, 157, 38-49.	1.9	12
126	The talin-integrin interface under mechanical stress. <i>Molecular BioSystems</i> , 2014, 10, 3217-3228.	2.9	12

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127	Membrane Deformation Induces Clustering of Norovirus Bound to Glycosphingolipids in a Supported Cell-Membrane Mimic. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2278-2284.	2.1	12
128	Covalent Biofunctionalization of Cellulose Acetate with Thermostable Chimeric Avidin. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2240-2245.	4.0	11
129	Mixture of PLA-PEG and biotinylated albumin enables immobilization of avidins on electrospun fibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 356-362.	2.1	11
130	Intelectin 3 is dispensable for resistance against a mycobacterial infection in zebrafish (<i>Danio rerio</i>). <i>Scientific Reports</i> , 2019, 9, 995.	1.6	11
131	A Novel Chimeric Avidin with Increased Thermal Stability Using DNA Shuffling. <i>PLoS ONE</i> , 2014, 9, e92058.	1.1	11
132	pH-Dependent Deformations of the Energy Landscape of Avidin-like Proteins Investigated by Single Molecule Force Spectroscopy. <i>Molecules</i> , 2014, 19, 12531-12546.	1.7	10
133	Design of modular gellan gum hydrogel functionalized with avidin and biotinylated adhesive ligands for cell culture applications. <i>PLoS ONE</i> , 2019, 14, e0221931.	1.1	10
134	Inhibition of the newly discovered β -carbonic anhydrase from the protozoan pathogen <i>Trichomonas vaginalis</i> with inorganic anions and small molecules. <i>Journal of Inorganic Biochemistry</i> , 2020, 213, 111274.	1.5	10
135	Surface Modification of Bioresorbable Phosphate Glasses for Controlled Protein Adsorption. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4483-4493.	2.6	10
136	Modification of the loops in the ligand-binding site turns avidin into a steroid-binding protein. <i>BMC Biotechnology</i> , 2011, 11, 64.	1.7	9
137	Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 120, 102-109.	2.5	9
138	The molecular basis of talin2's high affinity toward β 1-integrin. <i>Scientific Reports</i> , 2017, 7, 41989.	1.6	9
139	Improving the Immunogenicity of the <i>Mycobacterium bovis</i> BCG Vaccine by Non-Genetic Bacterial Surface Decoration Using the Avidin-Biotin System. <i>PLoS ONE</i> , 2015, 10, e0145833.	1.1	9
140	Dielectrophoresis as a tool for nanoscale DNA manipulation. <i>International Journal of Nanotechnology</i> , 2005, 2, 280.	0.1	8
141	Factors Dictating the Pseudocatalytic Efficiency of Avidins. <i>Journal of Molecular Biology</i> , 2006, 358, 754-763.	2.0	8
142	WINSE: WiMAX NS-2 extension. <i>Simulation</i> , 2011, 87, 24-44.	1.1	8
143	Regenerative biosensor chips based on switchable mutants of avidin: A systematic study. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 646-654.	4.0	8
144	A DNA-nanoparticle actuator enabling optical monitoring of nanoscale movements induced by an electric field. <i>Nanoscale</i> , 2018, 10, 19297-19309.	2.8	8

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145	Molecular tools for selective recovery and detection of lignin-derived molecules. <i>Green Chemistry</i> , 2018, 20, 2829-2839.	4.6	8
146	Structural Insight into CVB3-VLP Non-Adjuvanted Vaccine. <i>Microorganisms</i> , 2020, 8, 1287.	1.6	8
147	Surface Modification of Bioactive Glass Promotes Cell Attachment and Spreading. <i>ACS Omega</i> , 2021, 6, 22635-22642.	1.6	8
148	Structure of Bradavidin – C-Terminal Residues Act as Intrinsic Ligands. <i>PLoS ONE</i> , 2012, 7, e35962.	1.1	8
149	Identification and characterization of a novel zebrafish (<i>Danio rerio</i>) pentraxin – carbonic anhydrase. <i>PeerJ</i> , 2017, 5, e4128.	0.9	8
150	Antigenicity and immunogenicity of HA2 and M2e influenza virus antigens conjugated to norovirus-like, VP1 capsid-based particles by the SpyTag/SpyCatcher technology. <i>Virology</i> , 2022, 566, 89-97.	1.1	8
151	Positive association between biotin and the abundance of root-feeding nematodes. <i>Soil Biology and Biochemistry</i> , 2014, 73, 93-95.	4.2	7
152	Efficient preparation of shuffled DNA libraries through recombination (Gateway) cloning. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 23-28.	1.0	7
153	Host Cell Calpains Can Cleave Structural Proteins from the Enterovirus Polyprotein. <i>Viruses</i> , 2019, 11, 1106.	1.5	7
154	Mechanical Unfolding of Proteins – A Comparative Nonequilibrium Molecular Dynamics Study. <i>Biophysical Journal</i> , 2020, 119, 939-949.	0.2	7
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