

Jenny J Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3501805/publications.pdf>

Version: 2024-02-01

106
papers

4,021
citations

109321

35
h-index

144013

57
g-index

106
all docs

106
docs citations

106
times ranked

4826
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-invasive detection and complementary diagnosis of liver metastases via chemokine receptor 4 imaging. <i>Cancer Gene Therapy</i> , 2022, 29, 1827-1839.	4.6	2
2	Modulation of Cancer-Associated Fibrotic Stroma by An Integrin $\alpha 5 \beta 1$ Targeting Protein for Pancreatic Cancer Treatment. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 11, 161-179.	4.5	20
3	Simultaneously targeting cancer-associated fibroblasts and angiogenic vessel as a treatment for TNBC. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	28
4	Rapid subcellular calcium responses and dynamics by calcium sensor G-CatchER+. <i>IScience</i> , 2021, 24, 102129.	4.1	19
5	Electronic Cigarette Exposure Enhances Lung Inflammatory and Fibrotic Responses in COPD Mice. <i>Frontiers in Pharmacology</i> , 2021, 12, 726586.	3.5	18
6	Targeting integrin $\alpha 5 \beta 1$ by a rationally designed protein for chronic liver disease treatment. <i>Communications Biology</i> , 2021, 4, 1087.	4.4	10
7	Tuning Protein Dynamics to Sense Rapid Endoplasmic Reticulum Calcium Dynamics. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23289-23298.	13.8	10
8	Tuning Protein Dynamics to Sense Rapid Endoplasmic Reticulum Calcium Dynamics. <i>Angewandte Chemie</i> , 2021, 133, 23477.	2.0	2
9	Extracellular PKM2 facilitates organ-tissue fibrosis progression. <i>IScience</i> , 2021, 24, 103165.	4.1	6
10	Redox-Inactive Metalloproteins and Metalloenzymes. , 2021, , 878-899.		0
11	Structural Aspects and Prediction of Calmodulin-Binding Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 308.	4.1	27
12	Pyruvate kinase M2 regulates fibrosis development and progression by controlling glycine auxotrophy in myofibroblasts. <i>Theranostics</i> , 2021, 11, 9331-9341.	10.0	17
13	Extracellular calcium alters calcium-sensing receptor network integrating intracellular calcium-signaling and related key pathway. <i>Scientific Reports</i> , 2021, 11, 20576.	3.3	8
14	Structural mechanism of cooperative regulation of calcium-sensing receptor-mediated cellular signaling. <i>Current Opinion in Physiology</i> , 2020, 17, 269-277.	1.8	10
15	Design of Calcium-Binding Proteins to Sense Calcium. <i>Molecules</i> , 2020, 25, 2148.	3.8	15
16	Molecular imaging of extracellular matrix proteins with targeted probes using magnetic resonance imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1622.	6.1	15
17	Chemokine receptor 4 targeted protein MRI contrast agent for early detection of liver metastases. <i>Science Advances</i> , 2020, 6, eaav7504.	10.3	17
18	Early detection and staging of chronic liver diseases with a protein MRI contrast agent. <i>Nature Communications</i> , 2019, 10, 4777.	12.8	54

#	ARTICLE	IF	CITATIONS
19	Precision detection of liver metastasis by collagen-targeted protein MRI contrast agent. <i>Biomaterials</i> , 2019, 224, 119478.	11.4	19
20	Designing Calcium-Binding Proteins for Molecular MR Imaging. <i>Methods in Molecular Biology</i> , 2019, 1929, 111-125.	0.9	1
21	Interactome Analysis Reveals Regulator of G Protein Signaling 14 (RGS14) is a Novel Calcium/Calmodulin (Ca ²⁺ /CaM) and CaM Kinase II (CaMKII) Binding Partner. <i>Journal of Proteome Research</i> , 2018, 17, 1700-1711.	3.7	21
22	Radiologic and Histopathologic Correlation of Different Growth Patterns of Metastatic Uveal Melanoma to the Liver. <i>Ophthalmology</i> , 2018, 125, 597-605.	5.2	15
23	Direct visualization of interaction between calmodulin and connexin45. <i>Biochemical Journal</i> , 2017, 474, 4035-4051.	3.7	26
24	Monitoring ER/SR Calcium Release with the Targeted Ca ²⁺ Sensor CatchER ⁺ . <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	6
25	Molecular Basis for Modulation of Metabotropic Glutamate Receptors and Their Drug Actions by Extracellular Ca ²⁺ . <i>International Journal of Molecular Sciences</i> , 2017, 18, 672.	4.1	7
26	Calcium Dynamics Mediated by the Endoplasmic/Sarcoplasmic Reticulum and Related Diseases. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1024.	4.1	59
27	Calmodulin (CALM1)., 2017, , 1-10.		1
28	Molecular Basis of the Extracellular Ligands Mediated Signaling by the Calcium Sensing Receptor. <i>Frontiers in Physiology</i> , 2016, 7, 441.	2.8	48
29	Defining potential roles of Pb ²⁺ in neurotoxicity from a calciomics approach. <i>Metallomics</i> , 2016, 8, 563-578.	2.4	50
30	ProCA1.GRPR: a new imaging agent in cancer detection. <i>Biomarkers in Medicine</i> , 2016, 10, 449-452.	1.4	4
31	Structural basis for regulation of human calcium-sensing receptor by magnesium ions and an unexpected tryptophan derivative co-agonist. <i>Science Advances</i> , 2016, 2, e1600241.	10.3	116
32	Rational design of a protein that binds integrin $\alpha_3\beta_1$ outside the ligand binding site. <i>Nature Communications</i> , 2016, 7, 11675.	12.8	31
33	The hills and valleys of calcium signaling. <i>Science China Life Sciences</i> , 2016, 59, 743-748.	4.9	7
34	Prostate-specific membrane antigen targeted protein contrast agents for molecular imaging of prostate cancer by MRI. <i>Nanoscale</i> , 2016, 8, 12668-12682.	5.6	34
35	Towards the Molecular Imaging of Prostate Cancer Biomarkers Using Protein-based MRI Contrast Agents. <i>Current Protein and Peptide Science</i> , 2016, 17, 519-533.	1.4	10
36	GRPR-targeted Protein Contrast Agents for Molecular Imaging of Receptor Expression in Cancers by MRI. <i>Scientific Reports</i> , 2015, 5, 16214.	3.3	22

#	ARTICLE	IF	CITATIONS
37	Effect of Ca ²⁺ on the Steady-State and Time-Resolved Emission Properties of the Genetically Encoded Fluorescent Sensor CatchER. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2103-2111.	2.6	18
38	The calcium sensing receptor: from calcium sensing to signaling. <i>Science China Life Sciences</i> , 2015, 58, 14-27.	4.9	44
39	Protein MRI contrast agent with unprecedented metal selectivity and sensitivity for liver cancer imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6607-6612.	7.1	78
40	Monitoring channel activities of proteoliposomes with SecA and Cx26 gap junction in single oocytes. <i>Analytical Biochemistry</i> , 2015, 480, 58-66.	2.4	4
41	Fast kinetics of calcium signaling and sensor design. <i>Current Opinion in Chemical Biology</i> , 2015, 27, 90-97.	6.1	21
42	Role of Ca ²⁺ and L-Phe in Regulating Functional Cooperativity of Disease-Associated "Toggle" Calcium-Sensing Receptor Mutations. <i>PLoS ONE</i> , 2014, 9, e113622.	2.5	18
43	Direct Determination of Multiple Ligand Interactions with the Extracellular Domain of the Calcium-sensing Receptor. <i>Journal of Biological Chemistry</i> , 2014, 289, 33529-33542.	3.4	23
44	Pyruvate Kinase M2 in Blood Circulation Facilitates Tumor Growth by Promoting Angiogenesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 25812-25821.	3.4	67
45	Myoplasmic resting Ca ²⁺ regulation by ryanodine receptors is under the control of a novel Ca ²⁺ -binding region of the receptor. <i>Biochemical Journal</i> , 2014, 460, 261-271.	3.7	13
46	Design of ProCAs (Protein-Based Gd ³⁺ MRI Contrast Agents) with High Dose Efficiency and Capability for Molecular Imaging of Cancer Biomarkers. <i>Medicinal Research Reviews</i> , 2014, 34, 1070-1099.	10.5	30
47	Extracellular Calcium Modulates Actions of Orthosteric and Allosteric Ligands on Metabotropic Glutamate Receptor 1 \pm . <i>Journal of Biological Chemistry</i> , 2014, 289, 1649-1661.	3.4	22
48	Molecular imaging of EGFR/HER2 cancer biomarkers by protein MRI contrast agents. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 259-270.	2.6	21
49	Gap junction regulation by calmodulin. <i>FEBS Letters</i> , 2014, 588, 1430-1438.	2.8	48
50	Biochemical and Biophysical Investigation of the Brain-derived Neurotrophic Factor Mimetic 7,8-Dihydroxyflavone in the Binding and Activation of the TrkB Receptor. <i>Journal of Biological Chemistry</i> , 2014, 289, 27571-27584.	3.4	88
51	Identification of an l-Phenylalanine Binding Site Enhancing the Cooperative Responses of the Calcium-sensing Receptor to Calcium. <i>Journal of Biological Chemistry</i> , 2014, 289, 5296-5309.	3.4	30
52	Prostate Cancer Metastatic to Bone has Higher Expression of the Calcium-Sensing Receptor (CaSR) than Primary Prostate Cancer. <i>Receptors & Clinical Investigation</i> , 2014, 1, .	0.9	14
53	Design of a novel class of protein-based magnetic resonance imaging contrast agents for the molecular imaging of cancer biomarkers. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013, 5, 163-179.	6.1	37
54	Metal toxicity and opportunistic binding of Pb ²⁺ in proteins. <i>Journal of Inorganic Biochemistry</i> , 2013, 125, 40-49.	3.5	66

#	ARTICLE	IF	CITATIONS
55	Calciomics: integrative studies of Ca ²⁺ -binding proteins and their interactomes in biological systems. <i>Metallomics</i> , 2013, 5, 29-42.	2.4	77
56	Structural basis for a hand-like site in the calcium sensor CatchER with fast kinetics. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 2309-2319.	2.5	6
57	Calcium and Viruses. , 2013, , 415-424.		6
58	Probing Ca ²⁺ -Binding Capability of Viral Proteins with the EF-Hand Motif by Grafting Approach. <i>Methods in Molecular Biology</i> , 2013, 963, 37-53.	0.9	6
59	Gating of connexin 43 gap junctions by a cytoplasmic loop calmodulin binding domain. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1548-C1556.	4.6	53
60	Identification of 70 calcium-sensing receptor mutations in hyper- and hypo-calcaemic patients: evidence for clustering of extracellular domain mutations at calcium-binding sites. <i>Human Molecular Genetics</i> , 2012, 21, 2768-2778.	2.9	154
61	Role of Calcium in Metalloenzymes: Effects of Calcium Removal on the Axial Ligation Geometry and Magnetic Properties of the Catalytic Diheme Center in MauG. <i>Biochemistry</i> , 2012, 51, 1586-1597.	2.5	30
62	Predicting Ca ²⁺ -binding sites using refined carbon clusters. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2666-2679.	2.6	15
63	PEGylation of protein-based MRI contrast agents improves relaxivities and biocompatibilities. <i>Journal of Inorganic Biochemistry</i> , 2012, 107, 111-118.	3.5	24
64	Residual sarcoplasmic reticulum Ca ²⁺ concentration after Ca ²⁺ release in skeletal myofibers from young adult and old mice. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 463, 615-624.	2.8	15
65	HER2 Targeted Molecular MR Imaging Using a De Novo Designed Protein Contrast Agent. <i>PLoS ONE</i> , 2011, 6, e18103.	2.5	40
66	Molecular interaction and functional regulation of connexin50 gap junctions by calmodulin. <i>Biochemical Journal</i> , 2011, 435, 711-722.	3.7	45
67	Protein-Based MRI Contrast Agents for Molecular Imaging of Prostate Cancer. <i>Molecular Imaging and Biology</i> , 2011, 13, 416-423.	2.6	24
68	Design and application of a class of sensors to monitor Ca ²⁺ dynamics in high Ca ²⁺ concentration cellular compartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16265-16270.	7.1	96
69	Integration of Diverse Research Methods to Analyze and Engineer Ca ²⁺ - Binding Proteins: From Prediction to Production. <i>Current Bioinformatics</i> , 2010, 5, 68-80.	1.5	8
70	Site-specific modification of calmodulin Ca ²⁺ affinity tunes the skeletal muscle ryanodine receptor activation profile. <i>Biochemical Journal</i> , 2010, 432, 89-99.	3.7	18
71	Analysis and prediction of calcium-binding pockets from apo-protein structures exhibiting calcium-induced localized conformational changes. <i>Protein Science</i> , 2010, 19, 1180-1190.	7.6	26
72	Elucidation of a Novel Extracellular Calcium-binding Site on Metabotropic Glutamate Receptor 1 \pm (mGluR1 \pm) That Controls Receptor Activation*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33463-33474.	3.4	27

#	ARTICLE	IF	CITATIONS
73	Calmodulin Regulates Ca ²⁺ -sensing Receptor-mediated Ca ²⁺ Signaling and Its Cell Surface Expression. <i>Journal of Biological Chemistry</i> , 2010, 285, 35919-35931.	3.4	27
74	Viral calciomics: Interplays between Ca ²⁺ and virus. <i>Cell Calcium</i> , 2009, 46, 1-17.	2.4	286
75	Towards predicting Ca ²⁺ -binding sites with different coordination numbers in proteins with atomic resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 75, 787-798.	2.6	51
76	Inverse tuning of metal binding affinity and protein stability by altering charged coordination residues in designed calcium binding proteins. <i>PMC Biophysics</i> , 2009, 2, 11.	2.3	12
77	A single EF-hand isolated from STIM1 forms dimer in the absence and presence of Ca ²⁺ . <i>FEBS Journal</i> , 2009, 276, 5589-5597.	4.7	33
78	Designing Protease Sensors for Real-Time Imaging of Trypsin Activation in Pancreatic Cancer Cells. <i>Biochemistry</i> , 2009, 48, 3519-3526.	2.5	28
79	Multiple Ca ²⁺ -Binding Sites in the Extracellular Domain of the Ca ²⁺ -Sensing Receptor Corresponding to Cooperative Ca ²⁺ Response. <i>Biochemistry</i> , 2009, 48, 388-398.	2.5	115
80	Calmodulin Mediates the Ca ²⁺ -Dependent Regulation of Cx44 Gap Junctions. <i>Biophysical Journal</i> , 2009, 96, 2832-2848.	0.5	42
81	Structural differences between Pb ²⁺ - and Ca ²⁺ -binding sites in proteins: Implications with respect to toxicity. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1901-1909.	3.5	63
82	Rational design of a novel calcium-binding site adjacent to the ligand-binding site on CD2 increases its CD48 affinity. <i>Protein Science</i> , 2008, 17, 439-449.	7.6	16
83	Rational design of a conformation-switchable Ca ²⁺ - and Tb ³⁺ -binding protein without the use of multiple coupled metal-binding sites. <i>FEBS Journal</i> , 2008, 275, 5048-5061.	4.7	12
84	Statistical analysis of structural characteristics of protein Ca ²⁺ -binding sites. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1169-1181.	2.6	52
85	Rational Design of Protein-Based MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2008, 130, 9260-9267.	13.7	111
86	Identification of the Calmodulin Binding Domain of Connexin 43. <i>Journal of Biological Chemistry</i> , 2007, 282, 35005-35017.	3.4	79
87	Identification and Dissection of Ca ²⁺ -binding Sites in the Extracellular Domain of Ca ²⁺ -sensing Receptor. <i>Journal of Biological Chemistry</i> , 2007, 282, 19000-19010.	3.4	93
88	Identification of a Ca ²⁺ -Binding Domain in the Rubella Virus Nonstructural Protease. <i>Journal of Virology</i> , 2007, 81, 7517-7528.	3.4	29
89	Developing Sensors for Real-Time Measurement of High Ca ²⁺ Concentrations. <i>Biochemistry</i> , 2007, 46, 12275-12288.	2.5	45
90	Using Protein Design To Dissect the Effect of Charged Residues on Metal Binding and Protein Stability. <i>Biochemistry</i> , 2006, 45, 5848-5856.	2.5	18

#	ARTICLE	IF	CITATIONS
91	Predicting calcium-binding sites in proteins—A graph theory and geometry approach. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 34-42.	2.6	62
92	Prediction of EF-hand calcium-binding proteins and analysis of bacterial EF-hand proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 65, 643-655.	2.6	136
93	Amyloid Fibril Formation by a Domain of Rat Cell Adhesion Molecule. <i>Cell Biochemistry and Biophysics</i> , 2006, 44, 241-250.	1.8	7
94	Calcium and lanthanide affinity of the EF-loops from the C-terminal domain of calmodulin. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1376-1383.	3.5	22
95	Design of a Calcium-Binding Protein with Desired Structure in a Cell Adhesion Molecule. <i>Journal of the American Chemical Society</i> , 2005, 127, 2085-2093.	13.7	60
96	The Effects of Ca ²⁺ Binding on the Dynamic Properties of a Designed Ca ²⁺ -Binding Protein. <i>Biochemistry</i> , 2005, 44, 8267-8273.	2.5	16
97	Probing Site-Specific Calmodulin Calcium and Lanthanide Affinity by Grafting. <i>Journal of the American Chemical Society</i> , 2005, 127, 3743-3750.	13.7	96
98	Rational Design of a Calcium-Binding Protein. <i>Journal of the American Chemical Society</i> , 2003, 125, 6165-6171.	13.7	60
99	A grafting approach to obtain site-specific metal-binding properties of EF-hand proteins. <i>Protein Engineering, Design and Selection</i> , 2003, 16, 429-434.	2.1	25
100	Obtaining Site-Specific Calcium-Binding Affinities Of Calmodulin. <i>Protein and Peptide Letters</i> , 2003, 10, 331-345.	0.9	32
101	Metal-binding studies for a de novo designed calcium-binding protein. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 571-574.	2.1	12
102	Structural analysis, identification, and design of calcium-binding sites in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 47, 344-356.	2.6	125
103	Temperature-Induced Formation of a Non-Native Intermediate State of the All- β -Sheet Protein CD2. <i>Cell Biochemistry and Biophysics</i> , 2002, 36, 01-18.	1.8	7
104	Structural Biology of the Cell Adhesion Protein CD2 Alternatively Folded States and Structure-function Relation. <i>Current Protein and Peptide Science</i> , 2001, 2, 1-17.	1.4	26
105	Metal binding affinity and structural properties of an isolated EF-loop in a scaffold protein. <i>Protein Engineering, Design and Selection</i> , 2001, 14, 1001-1013.	2.1	35
106	Conformational Properties of Four Peptides Spanning the Sequence of Hen Lysozyme. <i>Journal of Molecular Biology</i> , 1995, 252, 483-491.	4.2	121