Steven R Van Doren

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Matrix metalloproteinase interactions with collagen and elastin. Matrix Biology, 2015, 44-46, 224-231.	3.6	278
2	Thebc 1 complexes ofRhodobacter sphaeroides andRhodobacter capsulatus. Journal of Bioenergetics and Biomembranes, 1993, 25, 195-209.	2.3	152
3	Phenotypic and genetic characterization of cytochrome c2-deficient mutants of Rhodobacter sphaeroides. Biochemistry, 1988, 27, 1918-1925.	2.5	121
4	Rapid determination of enzyme kinetics from fluorescence: Overcoming the inner filter effect. Analytical Biochemistry, 2007, 371, 43-51.	2.4	118
5	Folding and characterization of the amino-terminal domain of human tissue inhibitor of metalloproteinases-1 (TIMP-1) expressed at high yield inE. coli. FEBS Letters, 1996, 384, 155-161.	2.8	99
6	Solution structure of the catalytic domain of human stromelysin complexed with a hydrophobic inhibitor. Protein Science, 1995, 4, 2487-2498.	7.6	80
7	Increased Backbone Mobility in β-Barrel Enhances Entropy Gain Driving Binding of N-TIMP-1 to MMP-3. Journal of Molecular Biology, 2003, 327, 719-734.	4.2	78
8	Catalytic Sites for Reduction and Oxidation of Quinones. , 1987, , 617-624.		72
9	Eukaryotic cyclophilin as a molecular switch for effector activation. Molecular Microbiology, 2006, 61, 1485-1496.	2.5	64
10	Fusion Peptide of SARS-CoV-2 Spike Rearranges into a Wedge Inserted in Bilayered Micelles. Journal of the American Chemical Society, 2021, 143, 13205-13211.	13.7	54
11	TIMP-1 Contact Sites and Perturbations of Stromelysin 1 Mapped by NMR and a Paramagnetic Surface Probeâ€. Biochemistry, 1998, 37, 9650-9657.	2.5	52
12	Mechanistic Insights into Phosphoprotein-Binding FHA Domains. Accounts of Chemical Research, 2008, 41, 991-999.	15.6	49
13	Phosphoprotein and Phosphopeptide Interactions with the FHA Domain from Arabidopsis Kinase-Associated Protein Phosphataseâ€. Biochemistry, 2007, 46, 2684-2696.	2.5	48
14	Ambidextrous binding of cell and membrane bilayers by soluble matrix metalloproteinase-12. Nature Communications, 2014, 5, 5552.	12.8	44
15	NMR structure of the forkhead-associated domain from the Arabidopsis receptor kinase-associated protein phosphatase. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11261-11266.	7.1	43
16	Assembly of the Rieske iron-sulfur subunit of the cytochrome bc1 complex in the Escherichia coli and Rhodobacter sphaeroides membranes independent of the cytochrome b and c1 subunits. Biochemistry, 1993, 32, 628-636.	2.5	42
17	NMR structure of tissue inhibitor of metalloproteinases-1 implicates localized induced fit in recognition of matrix metalloproteinases. Journal of Molecular Biology, 2000, 295, 257-268.	4.2	40
18	Assignments for the main-chain nuclear magnetic resonances and delineation of the secondary structure of the catalytic domain of human stromelysin-1 as obtained from triple-resonance 3D NMR experiments. Biochemistry, 1993, 32, 13109-13122.	2.5	39

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19	MMP-12 Catalytic Domain Recognizes Triple Helical Peptide Models of Collagen V with Exosites and High Activity. Journal of Biological Chemistry, 2008, 283, 21779-21788.	3.4	39
20	NMR Structure of the N-terminal J Domain of Murine Polyomavirus T Antigens. Journal of Biological Chemistry, 2000, 275, 36094-36103.	3.4	35
21	Hsc70 Contacts Helix III of the J Domain from Polyomavirus T Antigens:  Addressing a Dilemma in the Chaperone Hypothesis of How They Release E2F from pRb. Biochemistry, 2006, 45, 6917-6929.	2.5	35
22	Structural Basis for a Lethal Mutation in U6 RNAâ€,â \in_i . Biochemistry, 2003, 42, 1470-1477.	2.5	30
23	Transient Collagen Triple Helix Binding to a Key Metalloproteinase in Invasion and Development. Structure, 2015, 23, 257-269.	3.3	30
24	An examination of the proteolytic activity for bovine pregnancy-associated glycoproteins 2 and 12. Biological Chemistry, 2010, 391, 259-270.	2.5	27
25	Tissue inhibitor of metalloproteinases-1 undergoes microsecond to millisecond motions at sites of matrix metalloproteinase-induced fit 1 1Edited by P. E. Wright. Journal of Molecular Biology, 2000, 301, 537-552.	4.2	24
26	Charge-Triggered Membrane Insertion of Matrix Metalloproteinase-7, Supporter of Innate Immunity and Tumors. Structure, 2015, 23, 2099-2110.	3.3	24
27	PhosphoThr Peptide Binding Globally Rigidifies Much of the FHA Domain from Arabidopsis Receptor Kinase-Associated Protein Phosphatase,. Biochemistry, 2005, 44, 10119-10134.	2.5	23
28	Docking of acetyl-CoA carboxylase to the plastid envelope membrane attenuates fatty acid production in plants. Nature Communications, 2020, 11, 6191.	12.8	23
29	NMR and Bioinformatics Discovery of Exosites That Tune Metalloelastase Specificity for Solubilized Elastin and Collagen Triple Helices. Journal of Biological Chemistry, 2010, 285, 30918-30930.	3.4	22
30	Remote Exosites of the Catalytic Domain of Matrix Metalloproteinase-12 Enhance Elastin Degradation. Biochemistry, 2011, 50, 9488-9499.	2.5	22
31	Global Orientation of Bound MMP-3 and N-TIMP-1 in Solution via Residual Dipolar Couplings,. Biochemistry, 2003, 42, 7950-7958.	2.5	20
32	Solution Structure of Inhibitor-Free Human Metalloelastase (MMP-12) Indicates an Internal Conformational Adjustment. Journal of Molecular Biology, 2007, 374, 1333-1344.	4.2	20
33	The BADC and BCCP subunits of chloroplast acetyl-CoA carboxylase sense the pH changes of the light–dark cycle. Journal of Biological Chemistry, 2020, 295, 9901-9916.	3.4	20
34	Binding Isotherms and Time Courses Readily from Magnetic Resonance. Analytical Chemistry, 2016, 88, 8172-8178.	6.5	19
35	Inactivation of Nâ€TIMPâ€1 by Nâ€terminal acetylation when expressed in bacteria. Biopolymers, 2008, 89, 960-968	2.4	16
36	Peripheral membrane associations of matrix metalloproteinases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1964-1973.	4.1	16

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37	NMR-based fragment screening and lead discovery accelerated by principal component analysis. Journal of Biomolecular NMR, 2019, 73, 675-685.	2.8	16
38	Hsc70-interacting HPD Loop of the J Domain of Polyomavirus T Antigens Fluctuates in ps to ns and μs to ms. Journal of Molecular Biology, 2002, 321, 503-516.	4.2	15
39	Structure of the UGAGAU hexaloop that braces Bacillus RNase P for action. Nature Structural Biology, 2002, 9, 397-403.	9.7	15
40	Apparent Tradeoff of Higher Activity in MMP-12 for Enhanced Stability and Flexibility in MMP-3. Biophysical Journal, 2010, 99, 273-283.	0.5	15
41	MT1-MMP Binds Membranes by Opposite Tips of Its β Propeller to Position It for Pericellular Proteolysis. Structure, 2019, 27, 281-292.e6.	3.3	15
42	Phosphorylation in the Catalytic Cleft Stabilizes and Attracts Domains of a Phosphohexomutase. Biophysical Journal, 2015, 108, 325-337.	0.5	14
43	Tracking Equilibrium and Nonequilibrium Shifts inÂData with TREND. Biophysical Journal, 2017, 112, 224-233.	0.5	14
44	Solution NMR of a 463-Residue Phosphohexomutase: Domain 4 Mobility, Substates, and Phosphoryl Transfer Defect. Biochemistry, 2012, 51, 807-819.	2.5	12
45	Heparinoids Activate a Protease, Secreted by Mucosa and Tumors, via Tethering Supplemented by Allostery. ACS Chemical Biology, 2014, 9, 957-966.	3.4	12
46	Glycan Activation of a Sheddase: Electrostatic Recognition between Heparin and proMMP-7. Structure, 2017, 25, 1100-1110.e5.	3.3	11
47	Breaking the covalent connection: Chain connectivity and the catalytic reaction of PMM/PGM. Protein Science, 2010, 19, 1235-1242.	7.6	10
48	Path to Collagenolysis. Journal of Biological Chemistry, 2016, 291, 7888-7901.	3.4	9
49	Entropy Increases from Different Sources Support the High-affinity Binding of the N-terminal Inhibitory Domains of Tissue Inhibitors of Metalloproteinases to the Catalytic Domains of Matrix Metalloproteinases-1 and -3. Journal of Biological Chemistry, 2011, 286, 16891-16899.	3.4	8
50	The Role of Collagen Charge Clusters in the Modulation of Matrix Metalloproteinase Activity. Journal of Biological Chemistry, 2014, 289, 1981-1992.	3.4	8
51	Partially Unfolded Forms and Non-two-state Folding of a Î ² -Sandwich: FHA Domain from Arabidopsis Receptor Kinase-associated Protein Phosphatase. Journal of Molecular Biology, 2006, 364, 225-240.	4.2	7
52	Solubilized elastin substrate for continuous fluorimetric assay of kinetics of elastases. Analytical Biochemistry, 2011, 408, 172-174.	2.4	7
53	Noninvasive Recognition and Biomarkers of Early Allergic Asthma in Cats Using Multivariate Statistical Analysis of NMR Spectra of Exhaled Breath Condensate. PLoS ONE, 2016, 11, e0164394.	2.5	7
54	Multiple Ligand-Bound States of a Phosphohexomutase Revealed by Principal Component Analysis of NMR Peak Shifts. Scientific Reports, 2017, 7, 5343.	3.3	7

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55	Affinities and Comparisons of Enzyme States by Principal Component Analysis of NMR Spectra, Automated using TREND Software. Methods in Enzymology, 2018, 607, 217-240.	1.0	7
56	Mapping Lipid Bilayer Recognition Sites of Metalloproteinases and Other Prospective Peripheral Membrane Proteins. Methods in Molecular Biology, 2017, 1579, 61-86.	0.9	6
57	MMP-7 marks severe pancreatic cancer and alters tumor cell signaling by proteolytic release of ectodomains. Biochemical Society Transactions, 2022, 50, 839-851.	3.4	6
58	1H, 13C and 15N resonance assignments and secondary structure of the N-terminal domain of human tissue inhibitor of metalloproteinases-1. Journal of Biomolecular NMR, 1999, 14, 289-290.	2.8	5
59	1H, 13C and 15N resonance assignments of the kinase-interacting FHA domain of Arabidopsis thaliana kinase-associated protein phosphatase. Journal of Biomolecular NMR, 2003, 25, 253-254.	2.8	5
60	1H, 13C, and 15N peak assignments and secondary structure of human macrophage metalloelastase (MMP-12) in its inhibitor-free state. Journal of Biomolecular NMR, 2006, 36, 55-55.	2.8	5
61	Development of a Therapeutic Peptide for Cachexia Suggests a Platform Approach for Drug-like Peptides. ACS Pharmacology and Translational Science, 2022, 5, 344-361.	4.9	5
62	Modern NMR spectroscopy of proteins and peptides in solution and its relevance to drug design. Journal of Computer - Aided Molecular Design, 1993, 1, 391-417.	1.0	4
63	Chemical shift assignments of domain 4 from the phosphohexomutase from Pseudomonas aeruginosa suggest that freeing perturbs its coevolved domain interface. Biomolecular NMR Assignments, 2014, 8, 329-333.	0.8	4
64	Phosphorylation-Dependent Effects on the Structural Flexibility of Phosphoglucosamine Mutase from <i>Bacillus anthracis</i> . ACS Omega, 2017, 2, 8445-8452.	3.5	4
65	Modern multidimensional protein NMR spectroscopy. TrAC - Trends in Analytical Chemistry, 1994, 13, 24-36.	11.4	3
66	An Auxiliary RF Channel with Convenient Phase Control for NMR Spectrometers. Journal of Magnetic Resonance Series A, 1993, 104, 222-225.	1.6	2
67	Structural Basis of Extracellular Matrix Interactions with Matrix Metalloproteinases. , 2011, , 123-143.		2
68	Domain Gymnastics of an ABC Transporter. Structure, 2018, 26, 917-918.	3.3	1
69	FHA Domain of Kinase Associated Protein Phosphatase (KAPP): Interactions with PhosphoThr Peptides and a Receptor Kinase and Dynamics by NMR. FASEB Journal, 2006, 20, A465.	0.5	1
70	Solution Structure and Dynamics of Human MMPâ€12 (Metalloelastase) in its Inhibitorâ€Free State. FASEB Journal, 2006, 20, LB51.	0.5	0
71	Nuclear magnetic resonance captures the elusive. F1000 Biology Reports, 2009, 1, 24.	4.0	0