

# Erik Sedlář

## List of Publications by Year in descending order

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74  
papers

1,787  
citations

257450

24  
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302126

39  
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74  
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74  
docs citations

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times ranked

2262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phospholipase A2 Digestion of Cardiolipin Bound to Bovine Cytochrome Oxidase Alters Both Activity and Quaternary Structure. <i>Biochemistry</i> , 1999, 38, 14966-14972.	2.5	147
2	Irreversible Thermal Denaturation of Glucose Oxidase from <i>Aspergillus niger</i> Is the Transition to the Denatured State with Residual Structure. <i>Journal of Biological Chemistry</i> , 2004, 279, 47601-47609.	3.4	122
3	Effect of Hofmeister ions on protein thermal stability: Roles of ion hydration and peptide groups?. <i>Archives of Biochemistry and Biophysics</i> , 2008, 479, 69-73.	3.0	94
4	Modulation of activity of NADH oxidase from <i>Thermus thermophilus</i> through change in flexibility in the enzyme active site induced by Hofmeister series anions. <i>FEBS Journal</i> , 2004, 271, 48-57.	0.2	69
5	Role of cardiolipin in stability of integral membrane proteins. <i>Biochimie</i> , 2017, 142, 102-111.	2.6	67
6	Directed evolution of G protein-coupled receptors in yeast for higher functional production in eukaryotic expression hosts. <i>Scientific Reports</i> , 2016, 6, 21508.	3.3	55
7	Photolabeling of Cardiolipin Binding Subunits within Bovine Heart Cytochrome Oxidase. <i>Biochemistry</i> , 2006, 45, 746-754.	2.5	52
8	Electrochemistry of Unfolded Cytochrome c in Neutral and Acidic Urea Solutions. <i>Journal of the American Chemical Society</i> , 2005, 127, 7638-7646.	13.7	51
9	The heme iron coordination of unfolded ferric and ferrous cytochrome c in neutral and acidic urea solutions. Spectroscopic and electrochemical studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1703, 31-41.	2.3	49
10	Release Factors 2 from <i>Escherichia coli</i> and <i>Thermus thermophilus</i> : structural, spectroscopic and microcalorimetric studies. <i>Nucleic Acids Research</i> , 2007, 35, 1343-1353.	14.5	43
11	Polyanion Hydrophobicity and Protein Basicity Affect Protein Stability in Protein-Polyanion Complexes. <i>Biomacromolecules</i> , 2009, 10, 2533-2538.	5.4	43
12	Destabilization of the A1 Domain in von Willebrand Factor Dissociates the A1A2A3 Tri-domain and Provokes Spontaneous Binding to Glycoprotein Ib and Platelet Activation under Shear Stress. <i>Journal of Biological Chemistry</i> , 2010, 285, 22831-22839.	3.4	43
13	Role of Copper in Thermal Stability of Human Ceruloplasmin. <i>Biophysical Journal</i> , 2008, 94, 1384-1391.	0.5	42
14	Flexibility and enzyme activity of NADH oxidase from <i>Thermus thermophilus</i> in the presence of monovalent cations of Hofmeister series. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 789-795.	2.3	41
15	Kinetics of cyanide binding as a probe of local stability/flexibility of cytochrome c. <i>Biophysical Chemistry</i> , 2009, 144, 21-26.	2.8	40
16	Changes in Thermodynamic Stability of von Willebrand Factor Differentially Affect the Force-Dependent Binding to Platelet GPIb. <i>Biophysical Journal</i> , 2009, 97, 618-627.	0.5	38
17	Role of conformational flexibility for enzymatic activity in NADH oxidase from <i>Thermus thermophilus</i> . <i>FEBS Journal</i> , 2003, 270, 4887-4897.	0.2	34
18	In vitro unfolding of yeast multicopper oxidase Fet3p variants reveals unique role of each metal site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19258-19263.	7.1	32

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19	Correlation of lysozyme activity and stability in the presence of Hofmeister series anions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 281-288.	2.3	32
20	Coulombic and noncoulombic effect of polyanions on cytochrome c structure. , 1998, 46, 145-154.		31
21	Molten globule-like state of cytochrome c induced by polyanion poly(vinylsulfate) in slightly acidic pH. <i>BBA - Proteins and Proteomics</i> , 1999, 1434, 347-355.	2.1	29
22	Lysozyme stability and amyloid fibrillization dependence on Hofmeister anions in acidic pH. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 921-933.	2.6	29
23	Stability and ATP Binding of the Nucleotide-binding Domain of the Wilson Disease Protein: Effect of the Common H1069Q Mutation. <i>Journal of Molecular Biology</i> , 2008, 383, 1097-1111.	4.2	28
24	Ferricytochrome c protects mitochondrial cytochrome c oxidase against hydrogen peroxide-induced oxidative damage. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1574-1581.	2.9	27
25	Discrete Roles of Copper Ions in Chemical Unfolding of Human Ceruloplasmin. <i>Biochemistry</i> , 2007, 46, 9638-9644.	2.5	26
26	The Kinetic Stability of Cytochrome c Oxidase: Effect of Bound Phospholipid and Dimerization. <i>Biophysical Journal</i> , 2014, 107, 2941-2949.	0.5	26
27	Conformational stability and dynamics of cytochrome c affect its alkaline isomerization. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 257-266.	2.6	23
28	Generation of Fluorogen-Activating Designed Ankyrin Repeat Proteins (FADAs) as Versatile Sensor Tools. <i>Journal of Molecular Biology</i> , 2016, 428, 1272-1289.	4.2	22
29	The fluorescence intensities ratio is not a reliable parameter for evaluation of protein unfolding transitions. <i>Protein Science</i> , 2017, 26, 1236-1239.	7.6	22
30	Peroxidase activity of cytochrome c in its compact state depends on dynamics of the heme region. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 1073-1083.	2.3	22
31	Dual effect of non-ionic detergent Triton X-100 on insulin amyloid formation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 709-718.	5.0	22
32	Interaction of ferricytochrome c with polyanion Nafion. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1997, 1319, 258-266.	1.0	19
33	Role of cations in stability of acidic protein <i>Desulfovibrio desulfuricans</i> apoflavodoxin. <i>Archives of Biochemistry and Biophysics</i> , 2008, 474, 128-135.	3.0	18
34	Methylation of Acridin-9-ylthioureas. Structure, Fluorescence and Biological Properties of Products. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 833-849.	1.0	17
35	Role of copper in folding and stability of cupredoxin-like copper-carrier protein CopC. <i>Archives of Biochemistry and Biophysics</i> , 2007, 467, 58-66.	3.0	17
36	Differential Stability of Dimeric and Monomeric Cytochrome c Oxidase Exposed to Elevated Hydrostatic Pressure. <i>Biochemistry</i> , 2007, 46, 7146-7152.	2.5	17

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37	Inner mechanism of protection of mitochondrial electron-transfer proteins against oxidative damage. Focus on hydrogen peroxide decomposition. <i>Biochimie</i> , 2017, 142, 152-157.	2.6	16
38	Rate of oxidative modification of cytochrome c by hydrogen peroxide is modulated by Hofmeister anions. <i>General Physiology and Biophysics</i> , 2010, 29, 255-265.	0.9	15
39	Hofmeister effect on catalytic properties of chymotrypsin is substrate-dependent. <i>Biophysical Chemistry</i> , 2018, 243, 8-16.	2.8	15
40	Dimers of <i>Thermus thermophilus</i> elongation factor Ts are required for its function as a nucleotide exchange factor of elongation factor Tu. <i>FEBS Journal</i> , 1998, 255, 81-86.	0.2	14
41	Analysis of IgG kinetic stability by differential scanning calorimetry, probe fluorescence and light scattering. <i>Protein Science</i> , 2017, 26, 2229-2239.	7.6	14
42	Advanced analyses of kinetic stabilities of iggs modified by mutations and glycosylation. <i>Protein Science</i> , 2015, 24, 1100-1113.	7.6	13
43	New Approach to Synthesis of N-Substituted 9-Amino/Iminoacridines with Important Fluorescence Properties. <i>Heterocycles</i> , 2001, 55, 279.	0.7	13
44	Modification of the kinetic stability of immunoglobulin G by solvent additives. <i>MAbs</i> , 2018, 10, 607-623.	5.2	12
45	Ion-Specific Protein/Water Interface Determines the Hofmeister Effect on the Kinetic Stability of Glucose Oxidase. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7965-7973.	2.6	12
46	Effect of the Central Disulfide Bond on the Unfolding Behavior of Elongation Factor Ts Homodimer from <i>Thermus thermophilus</i> . <i>Biochemistry</i> , 2001, 40, 9579-9586.	2.5	11
47	9-Isothiocyanatoanthracene as a Versatile Starting Compound in the Chemistry of Anthracen-9-yl Derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , 2002, 67, 665-678.	1.0	11
48	Cofactor assisted gating mechanism in the active site of NADH oxidase from <i>Thermus thermophilus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 465-476.	2.6	11
49	Unusual effect of salts on the homodimeric structure of NADH oxidase from <i>Thermus thermophilus</i> in acidic pH. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 129-137.	2.3	11
50	Sequential Dissociation of Subunits from Bovine Heart Cytochrome <i>c</i> Oxidase by Urea. <i>Biochemistry</i> , 2009, 48, 8143-8150.	2.5	10
51	Destabilization of the Quaternary Structure of Bovine Heart Cytochrome <i>c</i> Oxidase upon Removal of Tightly Bound Cardiolipin. <i>Biochemistry</i> , 2015, 54, 5569-5577.	2.5	10
52	Photoinduced damage of AsLOV2 domain is accompanied by increased singlet oxygen production due to flavin dissociation. <i>Scientific Reports</i> , 2020, 10, 4119.	3.3	10
53	Non-two-state thermal denaturation of ferricytochrome c at neutral and slightly acidic pH values. <i>Biophysical Chemistry</i> , 2015, 203-204, 41-50.	2.8	9
54	The molten-globule residual structure is critical for refluvination of glucose oxidase. <i>Biophysical Chemistry</i> , 2017, 230, 74-83.	2.8	9

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55	Activity of NADH oxidase from <i>Thermus thermophilus</i> in water/alcohol binary mixtures is limited by the stability of quaternary structure. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 64, 60-67.	1.8	8
56	Effect of N-domain on the stability of elongation factor Ts from <i>Thermus thermophilus</i> . <i>BBA - Proteins and Proteomics</i> , 2001, 1547, 117-126.	2.1	7
57	Characterization of the polyanion-induced molten globule-like state of cytochrome c. <i>Biopolymers</i> , 2007, 86, 119-126.	2.4	7
58	Core glycan in the yeast multicopper ferroxidase, Fet3p: A case study of N-linked glycosylation, protein maturation, and stability. <i>Protein Science</i> , 2010, 19, 1739-1750.	7.6	7
59	Early modification of cytochrome c by hydrogen peroxide triggers its fast degradation. <i>International Journal of Biological Macromolecules</i> , 2021, 174, 413-423.	7.5	7
60	Thermodynamic properties of nucleotide-free EF-Tu from <i>Thermus thermophilus</i> in the presence of low-molecular weight effectors of its GTPase activity. <i>BBA - Proteins and Proteomics</i> , 2002, 1597, 22-27.	2.1	5
61	Irreversible thermal denaturation of elongation factor Ts from <i>Thermus thermophilus</i> effect of the residual structure and intermonomer disulfide bond. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1277-1285.	2.3	5
62	Multidomain Initiation Factor 2 from <i>Thermus thermophilus</i> Consists of the Individual Autonomous Domains. <i>Biochemistry</i> , 2008, 47, 4992-5005.	2.5	5
63	The Interplay among Subunit Composition, Cardiolipin Content, and Aggregation State of Bovine Heart Cytochrome c Oxidase. <i>Cells</i> , 2020, 9, 2588.	4.1	5
64	Destabilization effect of imidazolium cation-Hofmeister anion salts on cytochrome c. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3808-3813.	7.5	5
65	Delipidation of cytochrome c oxidase from <i>Rhodobacter sphaeroides</i> destabilizes its quaternary structure. <i>Biochimie</i> , 2016, 125, 23-31.	2.6	3
66	Synergistic Effects of Copper Sites on Apparent Stability of Multicopper Oxidase, Fet3p. <i>International Journal of Molecular Sciences</i> , 2018, 19, 269.	4.1	3
67	Purification of MBP fusion proteins using engineered DARPin affinity matrix. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 105-112.	7.5	3
68	Specific anion effect on properties of HRV 3C protease. <i>Biophysical Chemistry</i> , 2022, 287, 106825.	2.8	3
69	Modulation of global stability, ligand binding and catalytic properties of trypsin by anions. <i>Biophysical Chemistry</i> , 2022, 288, 106856.	2.8	3
70	Conformational properties of LOV2 domain and its C450A variant within broad pH region. <i>Biophysical Chemistry</i> , 2020, 259, 106337.	2.8	2
71	Anion-Specific Effects on the Alkaline State of Cytochrome c. <i>Biochemistry (Moscow)</i> , 2021, 86, 59-73.	1.5	2
72	Heme is responsible for enhanced singlet oxygen deactivation in cytochrome c. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15557-15563.	2.8	1

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73	Singlet oxygen quenching as a probe for cytochrome <i>c</i> molten globule state formation. Physical Chemistry Chemical Physics, 2022, 24, 13317-13324.	2.8	1
74	Modulation of the Kinetic Stability of Immunoglobulin G by Solvent Additives. Biophysical Journal, 2016, 110, 211a-212a.	0.5	0