

# Sylwia Rodziewicz-Motowidła, o

## List of Publications by Year in descending order

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86  
papers

1,531  
citations

361045

20  
h-index

360668

35  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyproline II conformation is one of many local conformational states and is not an overall conformation of unfolded peptides and proteins. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1744-1749.	3.3	156
2	Prevention of Domain Swapping Inhibits Dimerization and Amyloid Fibril Formation of Cystatin C. Journal of Biological Chemistry, 2004, 279, 24236-24245.	1.6	102
3	Molecular simulation study of cooperativity in hydrophobic association. Protein Science, 2000, 9, 1235-1245.	3.1	90
4	HTCC as a Polymeric Inhibitor of SARS-CoV-2 and MERS-CoV. Journal of Virology, 2021, 95, .	1.5	64
5	Disruption of Ionic Interactions between the Nucleotide Binding Domain 1 (NBD1) and Middle (M) Domain in Hsp100 Disaggregase Unleashes Toxic Hyperactivity and Partial Independence from Hsp70. Journal of Biological Chemistry, 2013, 288, 2857-2869.	1.6	61
6	Further Evidence for the Absence of Polyproline II Stretch in the XAO Peptide. Biophysical Journal, 2007, 92, 2904-2917.	0.2	51
7	Binding Epitopes and Interaction Structure of the Neuroprotective Protease Inhibitor Cystatin C with $\beta^2$ -Amyloid Revealed by Proteolytic Excision Mass Spectrometry and Molecular Docking Simulation. Journal of Medicinal Chemistry, 2009, 52, 2420-2428.	2.9	50
8	Isolation and characterization of a thermally stable collagen preparation from the outer skin of the silver carp <i>Hypophthalmichthys molitrix</i> . Aquaculture, 2008, 285, 130-134.	1.7	38
9	Can cooperativity in hydrophobic association be reproduced correctly by implicit solvation models?. International Journal of Quantum Chemistry, 2002, 88, 41-55.	1.0	36
10	African Viper Poly-His Tag Peptide Fragment Efficiently Binds Metal Ions and Is Folded into an $\alpha$ -Helical Structure. Inorganic Chemistry, 2015, 54, 7692-7702.	1.9	35
11	Molecular Simulation Study of the Potentials of Mean Force for the Interactions between Models of Like-Charged and between Charged and Nonpolar Amino Acid Side Chains in Water. Journal of Physical Chemistry B, 2003, 107, 13496-13504.	1.2	33
12	Proteins, peptides and peptidomimetics as active agents in implant surface functionalization. Advances in Colloid and Interface Science, 2020, 276, 102083.	7.0	33
13	Immunophenotyping and transcriptional profiling of in vitro cultured human adipose tissue derived stem cells. Scientific Reports, 2018, 8, 11339.	1.6	31
14	Molecular simulation study of cooperativity in hydrophobic association: clusters of four hydrophobic particles. Biophysical Chemistry, 2003, 105, 339-359.	1.5	30
15	Governing the monomer-dimer ratio of human cystatin c by single amino acid substitution in the hinge region.. Acta Biochimica Polonica, 2009, 56, .	0.3	30
16	Design of short peptides to block BTLA/HVEM interactions for promoting anticancer T-cell responses. PLoS ONE, 2017, 12, e0179201.	1.1	28
17	Checking the conformational stability of cystatin C and its L68Q variant by molecular dynamics studies: Why is the L68Q variant amyloidogenic?. Journal of Structural Biology, 2006, 154, 68-78.	1.3	26
18	The role of the Val57 amino acid residue in the hinge loop of the human cystatin C. Conformational studies of the beta2 and beta3 segments of wild-type human cystatin C and its mutants. Biopolymers, 2009, 91, 373-383.	1.2	24

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19	Influence of point mutations on the stability, dimerization, and oligomerization of human cystatin C and its L68Q variant. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 82.	1.4	24
20	Antibacterial Peptides in Dermatology – Strategies for Evaluation of Allergic Potential. <i>Molecules</i> , 2018, 23, 414.	1.7	24
21	Human cystatin C monomer, dimer, oligomer, and amyloid structures are related to health and disease. <i>FEBS Letters</i> , 2016, 590, 4192-4201.	1.3	21
22	Synthesis and antimicrobial activity of truncated fragments and analogs of citropin 1.1: The solution structure of the SDS micelle-bound citropin-like peptides. <i>Journal of Structural Biology</i> , 2009, 168, 250-258.	1.3	20
23	Antimicrobial and conformational studies of the active and inactive analogues of the protegrin peptide. <i>FEBS Journal</i> , 2010, 277, 1010-1022.	2.2	20
24	Comment on “Anti-cooperativity in hydrophobic interactions: A simulation study of spatial dependence of three-body effects and beyond”. <i>J. Chem. Phys.</i> 115, 1414 (2001)]. <i>Journal of Chemical Physics</i> , 2002, 116, 2665-2667.	1.2	19
25	Conformational studies of vasopressin and mesotocin using NMR spectroscopy and molecular modelling methods. Part I: studies in water. <i>Journal of Peptide Science</i> , 2008, 14, 76-84.	0.8	19
26	An enormously active and selective azapeptide inhibitor of cathepsin B. <i>Journal of Peptide Science</i> , 2007, 13, 536-543.	0.8	18
27	Conformational studies of vasopressin and mesotocin using NMR spectroscopy and molecular modelling methods. Part II: studies in the SDS micelle. <i>Journal of Peptide Science</i> , 2008, 14, 85-96.	0.8	18
28	Development of a Peptide Derived from Platelet-Derived Growth Factor (PDGF-BB) into a Potential Drug Candidate for the Treatment of Wounds. <i>Advances in Wound Care</i> , 2020, 9, 657-675.	2.6	18
29	Ultrasensitive electrochemical determination of the cancer biomarker protein sPD-L1 based on a BMS-8-modified gold electrode. <i>Bioelectrochemistry</i> , 2021, 139, 107742.	2.4	18
30	Conformational solution studies of neuropeptide $\gamma$ using CD and NMR spectroscopy. <i>Journal of Peptide Science</i> , 2002, 8, 211-226.	0.8	17
31	Conformational solution studies of the SDS micelle-bound 11-28 fragment of two Alzheimer's $\beta$ -amyloid variants (E22K and A21G) using CD, NMR, and MD techniques. <i>Biopolymers</i> , 2007, 87, 23-39.	1.2	17
32	Deltorphin analogs restricted via a urea bridge: structure and opioid activity. <i>Journal of Peptide Science</i> , 2008, 14, 830-837.	0.8	17
33	Application of amide hydrogen/deuterium exchange mass spectrometry for epitope mapping in human cystatin C. <i>Amino Acids</i> , 2016, 48, 2809-2820.	1.2	17
34	Epigenetic inhibitor zebularine activates ear pinna wound closure in the mouse. <i>EBioMedicine</i> , 2019, 46, 317-329.	2.7	17
35	Disulfide-Linked Peptides for Blocking BTLA/HVEM Binding. <i>International Journal of Molecular Sciences</i> , 2020, 21, 636.	1.8	15
36	Conformational stability of the full-atom hexameric model of the ClpB chaperone from <i>Escherichia coli</i> . <i>Biopolymers</i> , 2010, 93, 47-60.	1.2	14

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37	Governing the monomer-dimer ratio of human cystatin c by single amino acid substitution in the hinge region. <i>Acta Biochimica Polonica</i> , 2009, 56, 455-63.	0.3	13
38	Distance between the Basic Group of the Amino Acid Residue's Side Chain in Position P1 of Trypsin Inhibitor CMTI-III and Asp189 in the Substrate Pocket of Trypsin Has an Essential Influence on the Inhibitory Activity. <i>Biochemical and Biophysical Research Communications</i> , 1997, 240, 869-871.	1.0	11
39	Temporin A and its retro-analogues: synthesis, conformational analysis and antimicrobial activities. <i>Journal of Peptide Science</i> , 2006, 12, 533-537.	0.8	11
40	Synthesis, biological activity and solution structure of new analogues of the antimicrobial Gramicidin S. <i>Journal of Peptide Science</i> , 2011, 17, 211-217.	0.8	11
41	Specificity of the Zn <sup>2+</sup> , Cd <sup>2+</sup> and Ni <sup>2+</sup> ion binding sites in the loop domain of the HypA protein. <i>Dalton Transactions</i> , 2015, 44, 9887-9900.	1.6	11
42	Conformational studies of the 1-28 helical fragment of the B3 domain of the immunoglobulin binding protein G from <i>Streptococcus</i> . <i>Biopolymers</i> , 2008, 89, 1032-1044.	1.2	10
43	<sup>1</sup> H NMR and crystallographic structural studies of the extremely stable monomeric variant of human cystatin C with single amino acid substitution. <i>FEBS Journal</i> , 2020, 287, 361-376.	2.2	10
44	CD160 protein as a new therapeutic target in a battle against autoimmune, infectious and lifestyle diseases. Analysis of the structure, interactions and functions. <i>European Journal of Medicinal Chemistry</i> , 2021, 224, 113694.	2.6	10
45	Three Component Composite Scaffolds Based on PCL, Hydroxyapatite, and L-Lysine Obtained in TIPS-SL: Bioactive Material for Bone Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13589.	1.8	10
46	The Arctic mutation alters helix length and type in the 11-28 amyloid peptide monomer. CD, NMR and MD studies in an SDS micelle. <i>Journal of Structural Biology</i> , 2008, 164, 199-209.	1.3	9
47	Fragments of gD Protein as Inhibitors of BTLA/HVEM Complex Formation - Design, Synthesis, and Cellular Studies. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8876.	1.8	9
48	RESTRICTED ROTATION IN CHIRAL PEPTIDE NUCLEIC ACID (PNA) MONOMERS - INFLUENCE OF SUBSTITUENTS STUDIED BY MEANS OF <sup>1</sup> H NMR. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 1399-1402.	0.4	8
49	Characteristics of C-terminal, 1-28 amyloid peptide binding fragment of neuroprotective protease inhibitor, cystatin C. <i>Journal of Molecular Recognition</i> , 2017, 30, e2581.	1.1	8
50	Structure determination of UL49.5 transmembrane protein from bovine herpesvirus 1 by NMR spectroscopy and molecular dynamics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 926-938.	1.4	8
51	A vector-enzymatic DNA fragment amplification-expression technology for construction of artificial, concatemeric DNA, RNA and proteins for novel biomaterials, biomedical and industrial applications. <i>Materials Science and Engineering C</i> , 2020, 108, 110426.	3.8	8
52	Porous chitosan/ZnO doped bioglass composites as carriers of bioactive peptides. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2807-2816.	1.1	8
53	Imunofan RDKVYR Peptide Stimulates Skin Cell Proliferation and Promotes Tissue Repair. <i>Molecules</i> , 2020, 25, 2884.	1.7	8
54	Conformational solution studies of [Sar7]desamino- and [MeAla7]desamino- vasopressin analogues using NMR spectroscopy. <i>Journal of Peptide Science</i> , 2002, 8, 347-364.	0.8	7

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55	Structural studies of the C-terminal 19-peptide of serum amyloid A and its Pro $\alpha$ 1'Ala variants interacting with human cystatin C. <i>Journal of Molecular Recognition</i> , 2015, 28, 413-426.	1.1	7
56	Cystatin C peptidomimetic derivative with antimicrobial properties as a potential compound against wound infections. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1431-1439.	1.4	7
57	Targeting the HVEM protein using a fragment of glycoprotein D to inhibit formation of the BTLA/HVEM complex. <i>Bioorganic Chemistry</i> , 2022, 122, 105748.	2.0	7
58	Conformation-activity relationships of cyclo-constrained $\mu/\kappa$ opioid agonists derived from the N-terminal tetrapeptide segment of dermorphin/deltorphin. <i>Journal of Peptide Science</i> , 2008, 14, 898-902.	0.8	6
59	Combination of SAXS and NMR Techniques as a Tool for the Determination of Peptide Structure in Solution. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3128-3131.	2.1	6
60	Epitope location for two monoclonal antibodies against human cystatin C, representing opposite aggregation inhibitory properties. <i>Amino Acids</i> , 2016, 48, 1717-1729.	1.2	6
61	A structural model of the immune checkpoint CD160-HVEM complex derived from HDX-mass spectrometry and molecular modeling. <i>Oncotarget</i> , 2019, 10, 536-550.	0.8	6
62	Conformational solution studies of the anti-microbial temporin A retro-analogues by using NMR spectroscopy. <i>Journal of Peptide Science</i> , 2007, 13, 327-333.	0.8	5
63	Functionalized Peptide Fibrils as a Scaffold for Active Substances in Wound Healing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3818.	1.8	5
64	PTD4 Peptide Increases Neural Viability in an In Vitro Model of Acute Ischemic Stroke. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6086.	1.8	5
65	Data regarding a new, vector-enzymatic DNA fragment amplification-expression technology for the construction of artificial, concatemeric DNA, RNA and proteins, as well as biological effects of selected polypeptides obtained using this method. <i>Data in Brief</i> , 2020, 28, 105069.	0.5	4
66	Spectroscopic Methods Used in Implant Material Studies. <i>Molecules</i> , 2020, 25, 579.	1.7	4
67	The Influence of the Mixed DPC:SDS Micelle on the Structure and Oligomerization Process of the Human Cystatin C. <i>Membranes</i> , 2021, 11, 17.	1.4	4
68	Assessment of the Toxicity of Biocompatible Materials Supporting Bone Regeneration: Impact of the Type of Assay and Used Controls. <i>Toxics</i> , 2022, 10, 20.	1.6	4
69	Solution conformations of bradykinin antagonists modified with C $\alpha$ -C $\beta$ cyclized nonaromatic residues. <i>Journal of Peptide Science</i> , 2008, 14, 819-829.	0.8	3
70	Conformational studies of [Abu <sup>3,11</sup> ]-SFTIa, an analogue of the trypsin inhibitor isolated from sunflower seeds. <i>Journal of Peptide Science</i> , 2008, 14, 911-916.	0.8	3
71	Isolation and characterization of autoantibodies against human cystatin C. <i>Amino Acids</i> , 2016, 48, 2501-2518.	1.2	3
72	HENRYK "An endless source of metal coordination surprises. <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 258-265.	1.5	3

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73	Differential effects of various soy isoflavone dietary supplements (nutraceuticals) on bacterial growth and human fibroblast viability. <i>Acta Biochimica Polonica</i> , 2018, 65, 325-332.	0.3	3
74	Cyclic trimer of human cystatin C, an amyloidogenic protein - molecular dynamics and experimental studies. <i>Journal of Applied Physics</i> , 2018, 123, 174701.	1.1	3
75	Structural Characterization of Covalently Stabilized Human Cystatin C Oligomers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5860.	1.8	3
76	Expression, purification, and efficient refolding of the extracellular domain of Escherichia coli-expressed signaling receptor herpesvirus entry mediator. <i>Protein Expression and Purification</i> , 2019, 164, 105450.	0.6	2
77	Molecular Dynamics Studies on Amyloidogenic Proteins. <i>Springer Series in Bio-/neuroinformatics</i> , 2014, , 445-481.	0.1	2
78	Hyphenated Mass Spectrometry Techniques in the Diagnosis of Amyloidosis. <i>Current Medicinal Chemistry</i> , 2019, 26, 104-120.	1.2	2
79	Regenerative Drug Discovery Using Ear Pinna Punch Wound Model in Mice. <i>Pharmaceuticals</i> , 2022, 15, 610.	1.7	2
80	Conformational studies of tachykinin peptides using NMR spectroscopy. <i>International Journal of Peptide Research and Therapeutics</i> , 1998, 5, 429-432.	0.1	1
81	Investigation of the Effects of Primary Structure Modifications within the RRE Motif on the Conformation of Synthetic Bovine Herpesvirus 1-Encoded UL49.5 Protein Fragments. <i>Chemistry and Biodiversity</i> , 2021, 18, e2000883.	1.0	1
82	Conformation-activity relationships of cyclo-constrained $\mu$ /5 opioid agonists derived from the N-terminal tetrapeptide segment of dermorphin/deltorphan. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 489-490.	0.8	1
83	Effect of antisense peptide binding on the dimerization of human cystatin C-gel electrophoresis and molecular modeling studies.. <i>Acta Biochimica Polonica</i> , 2004, 51, 153-160.	0.3	1
84	Identification and characterization of antibodies elicited by human cystatin C fragment. <i>Journal of Molecular Recognition</i> , 2018, 31, e2689.	1.1	0
85	Molecular Dynamics Studies on Amyloidogenic Proteins. <i>Springer Series on Bio- and Neurosystems</i> , 2019, , 467-499.	0.2	0
86	Synthesis and SAR Studies of Antibacterial Peptidyl Derivatives Based upon the Binding Site of Human Cystatin C. <i>Protein and Peptide Letters</i> , 2019, 26, 423-434.	0.4	0