

# Paweł, A Osmulski

## List of Publications by Year in descending order

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75  
papers

2,034  
citations

236612

25  
h-index

264894

42  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-cell analysis of circulating tumor cells identifies cumulative expression patterns of EMT-related genes in metastatic prostate cancer. <i>Prostate</i> , 2013, 73, 813-826.	1.2	207
2	Proline- and Arginine-Rich Peptides Constitute a Novel Class of Allosteric Inhibitors of Proteasome Activity. <i>Biochemistry</i> , 2003, 42, 8663-8670.	1.2	112
3	The central unit within the 19S regulatory particle of the proteasome. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 573-580.	3.6	103
4	Altered Composition of Liver Proteasome Assemblies Contributes to Enhanced Proteasome Activity in the Exceptionally Long-Lived Naked Mole-Rat. <i>PLoS ONE</i> , 2012, 7, e35890.	1.1	96
5	Caretaker or undertaker? The role of the proteasome in aging. <i>Mechanisms of Ageing and Development</i> , 2001, 122, 235-254.	2.2	84
6	A Tetrahedral Transition State at the Active Sites of the 20S Proteasome Is Coupled to Opening of the Î±-Ring Channel. <i>Structure</i> , 2009, 17, 1137-1147.	1.6	84
7	Amyloid beta and the longest-lived rodent: the naked mole-rat as a model for natural protection from Alzheimer's disease. <i>Neurobiology of Aging</i> , 2013, 34, 2352-2360.	1.5	76
8	Structure, function and physiological role of chironomus haemoglobin. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1986, 85, 701-722.	0.2	57
9	Nanoenzymology of the 20S Proteasome: Proteasomal Actions Are Controlled by the Allosteric Transition. <i>Biochemistry</i> , 2002, 41, 7047-7053.	1.2	56
10	Atomic Force Microscopy Reveals Two Conformations of the 20 S Proteasome from Fission Yeast. <i>Journal of Biological Chemistry</i> , 2000, 275, 13171-13174.	1.6	55
11	The Growth-Suppressive Function of the Polycomb Group Protein Polyhomeotic Is Mediated by Polymerization of Its Sterile Alpha Motif (SAM) Domain. <i>Journal of Biological Chemistry</i> , 2012, 287, 8702-8713.	1.6	54
12	Small Molecule Modulation of Proteasome Assembly. <i>Biochemistry</i> , 2018, 57, 4214-4224.	1.2	52
13	AFM of biological complexes: What can we learn?. <i>Current Opinion in Colloid and Interface Science</i> , 2008, 13, 351-367.	3.4	50
14	A cytosolic protein factor from the naked mole-rat activates proteasomes of other species and protects these from inhibition. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 2060-2072.	1.8	49
15	EpCAM-Regulated Transcription Exerts Influences on Nanomechanical Properties of Endometrial Cancer Cells That Promote Epithelial-to-Mesenchymal Transition. <i>Cancer Research</i> , 2016, 76, 6171-6182.	0.4	46
16	Phosphorylation by Nek1 regulates opening and closing of voltage dependent anion channel 1. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 798-803.	1.0	44
17	Single-Cell Proteomic Profiling Identifies Combined AXL and JAK1 Inhibition as a Novel Therapeutic Strategy for Lung Cancer. <i>Cancer Research</i> , 2020, 80, 1551-1563.	0.4	40
18	Small-Molecule Inhibitors of Proteasome Activity. , 2005, 301, 003-022.		38

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19	Atomic force microscopic analysis of the binding of the Schizosaccharomyces pombe origin recognition complex and the spOrc4 protein with origin DNA. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17952-17957.	3.3	37
20	Rapamycin Allosterically Inhibits the Proteasome. Molecular Pharmacology, 2013, 84, 104-113.	1.0	36
21	Nanomechanical biomarkers of single circulating tumor cells for detection of castration resistant prostate cancer. Prostate, 2014, 74, 1297-1307.	1.2	35
22	ENDOR Determination of Heme Ligation in Chloroperoxidase and Comparison with Cytochrome P-450Cam. Journal of the American Chemical Society, 1994, 116, 5989-5990.	6.6	34
23	The proteasome in health and disease. Current Pharmaceutical Design, 2013, 19, 1010-28.	0.9	34
24	DNA-looping by RXR Tetramers Permits Transcriptional Regulation at a Distance. Journal of Molecular Biology, 2004, 343, 327-338.	2.0	33
25	Proline- and Arginine-Rich Peptides as Flexible Allosteric Modulators of Human Proteasome Activity. Journal of Medicinal Chemistry, 2019, 62, 359-370.	2.9	32
26	Molecular mechanisms of proteasome plasticity in aging. Mechanisms of Ageing and Development, 2010, 131, 144-155.	2.2	31
27	High-Pressure-Assisted Reconstitution of Recombinant Chloroperoxidase. Biochemistry, 1995, 34, 12420-12425.	1.2	27
28	Contacts with Macrophages Promote an Aggressive Nanomechanical Phenotype of Circulating Tumor Cells in Prostate Cancer. Cancer Research, 2021, 81, 4110-4123.	0.4	25
29	Potential allosteric modulators of the proteasome activity. Biopolymers, 2010, 93, 481-495.	1.2	24
30	Characterization of Noncompetitive Regulators of Proteasome Activity. Methods in Enzymology, 2005, 398, 425-438.	0.4	23
31	Cholesterol Regulates Monocyte Rolling through CD44 Distribution. Biophysical Journal, 2017, 112, 1481-1488.	0.2	23
32	A new large proteolytic complex distinct from the proteasome is present in the cytosol of fission yeast. Current Biology, 1998, 8, 1023-1026.	1.8	22
33	Allosteric Regulators of the Proteasome: Potential Drugs and a Novel Approach for Drug Design. Current Medicinal Chemistry, 2006, 13, 155-165.	1.2	20
34	Genetic and pharmacologic proteasome augmentation ameliorates Alzheimer's-like pathology in mouse and fly APP overexpression models. Science Advances, 2022, 8, .	4.7	20
35	Harnessing Proteasome Dynamics and Allostery in Drug Design. Antioxidants and Redox Signaling, 2014, 21, 2286-2301.	2.5	19
36	Sustained NF- $\kappa$ B inhibition improves insulin sensitivity but is detrimental to muscle health. Aging Cell, 2017, 16, 847-858.	3.0	19

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37	The Proteasome in Health and Disease. <i>Current Pharmaceutical Design</i> , 2012, 19, 1010-1028.	0.9	19
38	Crosstalk between RON and androgen receptor signaling in the development of castration resistant prostate cancer. <i>Oncotarget</i> , 2016, 7, 14048-14063.	0.8	17
39	Adipokines Deregulate Cellular Communication via Epigenetic Repression of <i>Gap Junction</i> Loci in Obese Endometrial Cancer. <i>Cancer Research</i> , 2019, 79, 196-208.	0.4	16
40	TGF- $\beta$ 2 signal rewiring sustains epithelial-mesenchymal transition of circulating tumor cells in prostate cancer xenograft hosts. <i>Oncotarget</i> , 2016, 7, 77124-77137.	0.8	15
41	New Peptide-Based Pharmacophore Activates 20S Proteasome. <i>Molecules</i> , 2020, 25, 1439.	1.7	14
42	Radiation-induced changes of structural and functional properties of human hemoglobin. <i>Radiation and Environmental Biophysics</i> , 1989, 28, 39-46.	0.6	13
43	Atomic Force Microscopy of Proteasome Assemblies. <i>Methods in Molecular Biology</i> , 2011, 736, 117-132.	0.4	13
44	Targeting Protein-Protein Interactions in the Ubiquitin-Proteasome Pathway. <i>Advances in Protein Chemistry and Structural Biology</i> , 2018, 110, 123-165.	1.0	12
45	Interplay between Structure and Charge as a Key to Allosteric Modulation of Human 20S Proteasome by the Basic Fragment of HIV-1 Tat Protein. <i>PLoS ONE</i> , 2015, 10, e0143038.	1.1	12
46	Atomic Force Microscopy of the Proteasome. <i>Methods in Enzymology</i> , 2005, 398, 414-425.	0.4	11
47	Cellular cholesterol regulates monocyte deformation. <i>Journal of Biomechanics</i> , 2017, 52, 83-88.	0.9	11
48	Dissecting a role of a charge and conformation of Tat2 peptide in allosteric regulation of 20S proteasome. <i>Journal of Peptide Science</i> , 2014, 20, 649-656.	0.8	10
49	Pipelicolic esters as minimized templates for proteasome inhibition. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 2734-2746.	1.5	10
50	Targeting Protein-Protein Interactions in the Proteasome Super-Assemblies.. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 2056-2067.	1.0	10
51	Radiation-induced changes of structural and functional properties of human hemoglobin. <i>Radiation and Environmental Biophysics</i> , 1989, 28, 47-58.	0.6	8
52	Evidence for 2-Methoxyestradiol-Mediated Inhibition of Receptor Tyrosine Kinase RON in the Management of Prostate Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1852.	1.8	8
53	AFM Imaging Reveals Topographic Diversity of Wild Type and Z Variant Polymers of Human $\alpha$ 1-Proteinase Inhibitor. <i>PLoS ONE</i> , 2016, 11, e0151902.	1.1	7
54	The Proteasome in Health and Disease. <i>Current Pharmaceutical Design</i> , 2012, 19, 1010-1028.	0.9	7

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55	Spectroscopic studies of an insect hemoglobin from the backswimmer <i>Buenoa margaritacea</i> (hemiptera: notonectidae). <i>Biochemical and Biophysical Research Communications</i> , 1992, 187, 570-576.	1.0	5
56	Inhibitory Interplay of SULT2B1b Sulfotransferase with AKR1C3 Aldo-keto Reductase in Prostate Cancer. <i>Endocrinology</i> , 2020, 161, .	1.4	5
57	Highbrow proteasome in high-throughput technology. <i>Expert Review of Proteomics</i> , 2006, 3, 115-127.	1.3	3
58	EGFR-Dependent Regulated Intramembrane Proteolysis of EpCAM Response. <i>Cancer Research</i> , 2017, 77, 1777-1777.	0.4	3
59	Seasonal variability of hemoglobin content and component composition of <i>Chironomus thummi thummi</i> larvae. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1985, 80, 613-616.	0.2	2
60	Characterization of hemoglobin from the backswimmer <i>Buenoa margaritacea</i> (Hemiptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td Biology, 1993, 23, 421-429.	1.2	2
61	The Structure and Function of <i>Chironomus</i> Hemoglobins. , 1991, , 305-312.		2
62	Temperature dependence of the spin S=1/2 fluctuation rate and the low-spin versus high-spin transition in native chloroperoxidase. <i>Hyperfine Interactions</i> , 1994, 91, 865-874.	0.2	1
63	Anticancer applications of allosteric inhibitors of proteasome.. <i>Journal of Clinical Oncology</i> , 2017, 35, e23066-e23066.	0.8	1
64	Chapter 3 Atomic Force Microscopy as a Tool to Study the Proteasome Assemblies. <i>Methods in Cell Biology</i> , 2008, 90, 39-60.	0.5	0
65	Scanning Probe Microscopy of Serpin Polymers. <i>Biophysical Journal</i> , 2012, 102, 589a.	0.2	0
66	Atomic Force Microscopy reveals Diversity of Serpin Polymers. <i>Biophysical Journal</i> , 2013, 104, 513a.	0.2	0
67	Structural Dynamics of Proteasome: AFM Perspective. <i>Biophysical Journal</i> , 2014, 106, 799a.	0.2	0
68	Atomic Force Microscopy of Triple Negative Breast Cancer Cells: A Predictive Value of Mechanical Phenotype. <i>Biophysical Journal</i> , 2015, 108, 141a.	0.2	0
69	From Single Molecules to Single Cells: Biophysics of Interactions between Small Regulators and Proteasome. <i>Biophysical Journal</i> , 2016, 110, 218a.	0.2	0
70	Regulation of Proteasomal Catalytic Activity by Altering its Protein-Protein Interactions. <i>Biophysical Journal</i> , 2017, 112, 496a.	0.2	0
71	Epithelial-to-mesenchymal (EMT) markers and nanomechanical signatures of circulating tumor cells (CTC) for prediction of men with castrate-sensitive versus castration-resistant prostate cancer (PCa).. <i>Journal of Clinical Oncology</i> , 2014, 32, 11045-11045.	0.8	0
72	Abstract 5588: Epithelial-to-mesenchymal markers of circulating tumor cells for detection of castration-resistant prostate cancer. , 2014, , .		0

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73	Abstract P6-02-10: Targeting protein-protein interactions in the proteasome assemblies as a novel strategy to treat triple negative breast cancers. , 2015, , .		0
74	A new concept to target the proteasome: disrupting protein-protein interactions in the proteasome super-assembly as a way to stop the growth of cancer cells.. Journal of Clinical Oncology, 2016, 34, e14113-e14113.	0.8	0
75	Abstract 2871: Dual role of EpCAM cleavage in adhesion attenuation and transcription enhancement for cell migration. , 2016, , .		0