

Rostyslav Bilyy

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

4,668
citations

186265

28
h-index

106344

65
g-index

112
all docs

112
docs citations

112
times ranked

7319
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregated neutrophil extracellular traps limit inflammation by degrading cytokines and chemokines. <i>Nature Medicine</i> , 2014, 20, 511-517.	30.7	734
2	Host DNases prevent vascular occlusion by neutrophil extracellular traps. <i>Science</i> , 2017, 358, 1202-1206.	12.6	426
3	To NET or not to NET: current opinions and state of the science regarding the formation of neutrophil extracellular traps. <i>Cell Death and Differentiation</i> , 2019, 26, 395-408.	11.2	295
4	Cytotoxicity of crystals involves RIPK3-MLKL-mediated necroptosis. <i>Nature Communications</i> , 2016, 7, 10274.	12.8	220
5	PMA and crystal-induced neutrophil extracellular trap formation involves RIPK1-RIPK3-MLKL signaling. <i>European Journal of Immunology</i> , 2016, 46, 223-229.	2.9	200
6	Mitochondrial dynamics during cell cycling. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2016, 21, 1327-1335.	4.9	193
7	Patients with COVID-19: in the dark-NETs of neutrophils. <i>Cell Death and Differentiation</i> , 2021, 28, 3125-3139.	11.2	189
8	Lysosome-Targeting Amplifiers of Reactive Oxygen Species as Anticancer Prodrugs. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15545-15549.	13.8	132
9	Nanoparticles size-dependently initiate self-limiting NETosis-driven inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5856-E5865.	7.1	128
10	Neutrophil Extracellular Traps Initiate Gallstone Formation. <i>Immunity</i> , 2019, 51, 443-450.e4.	14.3	115
11	Decrease of sialic acid residues as an eat-me signal on the surface of apoptotic lymphocytes. <i>Journal of Cell Science</i> , 2010, 123, 3347-3356.	2.0	107
12	Macrophages Discriminate Glycosylation Patterns of Apoptotic Cell-derived Microparticles. <i>Journal of Biological Chemistry</i> , 2012, 287, 496-503.	3.4	85
13	Mitochondria Permeability Transition versus Necroptosis in Oxalate-Induced AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 1857-1869.	6.1	81
14	Thiazolylaminomannosides As Potent Antiadhesives of Type 1 Piliated <i>Escherichia coli</i> Isolated from Crohn's Disease Patients. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5395-5406.	6.4	79
15	Reduced Graphene-Oxide-Embedded Polymeric Nanofiber Mats: An On-Demand Photothermally Triggered Antibiotic Release Platform. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41098-41106.	8.0	75
16	ROS-Responsive N-Alkylaminoferrocenes for Cancer-Cell-Specific Targeting of Mitochondria. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11943-11946.	13.8	74
17	Plasmonic photothermal cancer therapy with gold nanorods/reduced graphene oxide core/shell nanocomposites. <i>RSC Advances</i> , 2016, 6, 1600-1610.	3.6	70
18	Sweet but dangerous – the role of immunoglobulin G glycosylation in autoimmunity and inflammation. <i>Lupus</i> , 2016, 25, 934-942.	1.6	69

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19	Altered glycosylation of complexed native IgG molecules is associated with disease activity of systemic lupus erythematosus. <i>Lupus</i> , 2015, 24, 569-581.	1.6	64
20	Glycopolymers as Antiadhesives of <i>E. coli</i> Strains Inducing Inflammatory Bowel Diseases. <i>Biomacromolecules</i> , 2015, 16, 1827-1836.	5.4	58
21	Neutrophil Extracellular Traps Form a Barrier between Necrotic and Viable Areas in Acute Abdominal Inflammation. <i>Frontiers in Immunology</i> , 2016, 7, 424.	4.8	58
22	Oxidative Burst-Dependent NETosis Is Implicated in the Resolution of Necrosis-Associated Sterile Inflammation. <i>Frontiers in Immunology</i> , 2016, 7, 557.	4.8	55
23	Water-Soluble Pristine Fullerenes C ₆₀ ; Increase the Specific Conductivity and Capacity of Lipid Model Membrane and form the Channels in Cellular Plasma Membrane. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 522-527.	1.1	55
24	The Antiadhesive Strategy in Crohn's Disease: Orally Active Mannosides to Decolonize Pathogenic <i>Escherichia coli</i> from the Gut. <i>ChemBioChem</i> , 2016, 17, 936-952.	2.6	46
25	Second generation of thiazolymannosides, FimH antagonists for <i>E. coli</i> -induced Crohn's disease. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3913-3925.	2.8	43
26	Flexible Nanoholey Patches for Antibiotic-Free Treatments of Skin Infections. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36665-36674.	8.0	42
27	An Endoplasmic Reticulum Specific Pro-amplicifier of Reactive Oxygen Species in Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11158-11162.	13.8	34
28	The Pathogenicity of Anti- β 2GP1-IgG Autoantibodies Depends on Fc Glycosylation. <i>Journal of Immunology Research</i> , 2015, 2015, 1-12.	2.2	33
29	Search for novel cell surface markers of apoptotic cells. <i>Autoimmunity</i> , 2007, 40, 249-253.	2.6	31
30	Aluminum oxide nanowires as safe and effective adjuvants for next-generation vaccines. <i>Materials Today</i> , 2019, 22, 58-66.	14.2	30
31	Inert Coats of Magnetic Nanoparticles Prevent Formation of Occlusive Intravascular Co-aggregates With Neutrophil Extracellular Traps. <i>Frontiers in Immunology</i> , 2018, 9, 2266.	4.8	29
32	Cytochemical study of role of β -d-mannose- and β -d-galactose-containing glycoproteins in apoptosis. <i>Journal of Molecular Histology</i> , 2004, 35, 829-838.	2.2	28
33	Blood-borne phagocytes internalize urate microaggregates and prevent intravascular NETosis by urate crystals. <i>Scientific Reports</i> , 2016, 6, 38229.	3.3	28
34	AMID: new insights on its intracellular localization and expression at apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2008, 13, 729-732.	4.9	26
35	UVB-irradiated apoptotic cells induce accelerated growth of co-implanted viable tumor cells in immune competent mice. <i>Autoimmunity</i> , 2013, 46, 317-322.	2.6	26
36	Sialylation of anti-histone immunoglobulin G autoantibodies determines their capabilities to participate in the clearance of late apoptotic cells. <i>Clinical and Experimental Immunology</i> , 2016, 184, 110-117.	2.6	26

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37	Altered glycan accessibility on native immunoglobulin G complexes in early rheumatoid arthritis and its changes during therapy. <i>Clinical and Experimental Immunology</i> , 2017, 189, 372-382.	2.6	26
38	Highly effective photodynamic inactivation of <i>E. coli</i> using gold nanorods/SiO ₂ core-shell nanostructures with embedded verteporfin. <i>Chemical Communications</i> , 2015, 51, 16365-16368.	4.1	25
39	Lysosome-Targeting Amplifiers of Reactive Oxygen Species as Anticancer Prodrugs. <i>Angewandte Chemie</i> , 2017, 129, 15751-15755.	2.0	25
40	Novel fluorescent poly(glycidyl methacrylate) - Silica microspheres. <i>European Polymer Journal</i> , 2014, 56, 92-104.	5.4	24
41	A blast without power - cell death induced by the tuberculosis-necrotizing toxin fails to elicit adequate immune responses. <i>Cell Death and Differentiation</i> , 2016, 23, 1016-1025.	11.2	22
42	Comparative study of membranotropic action of single- and multi-walled carbon nanotubes. <i>Journal of Bioscience and Bioengineering</i> , 2013, 115, 674-679.	2.2	21
43	ROS-Responsive N-Alkylaminoferrocenes for Cancer-Cell-Specific Targeting of Mitochondria. <i>Angewandte Chemie</i> , 2018, 130, 12119-12122.	2.0	21
44	The Progression of Cell Death Affects the Rejection of Allogeneic Tumors in Immune-Competent Mice - Implications for Cancer Therapy. <i>Frontiers in Immunology</i> , 2014, 5, 560.	4.8	20
45	Utilization of GaN:Eu ³⁺ nanocrystals for the detection of programmed cell death. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2096-2099.	2.7	19
46	Autoimmune, rheumatic, chronic inflammatory diseases: Neutrophil extracellular traps on parade. <i>Autoimmunity</i> , 2018, 51, 281-287.	2.6	19
47	In vivo expression and characteristics of novel β -mannose-rich glycoprotein markers of apoptotic cells. <i>Cell Biology International</i> , 2005, 29, 920-928.	3.0	18
48	Anti-histone H1 IgGs from blood serum of systemic lupus erythematosus patients are capable of hydrolyzing histone H1 and myelin basic protein. <i>Journal of Molecular Recognition</i> , 2010, 23, 495-502.	2.1	18
49	Inosine Released from Dying or Dead Cells Stimulates Cell Proliferation via Adenosine Receptors. <i>Frontiers in Immunology</i> , 2017, 8, 504.	4.8	18
50	Neutrophil-released enzymes can influence composition of circulating immune complexes in multiple sclerosis. <i>Autoimmunity</i> , 2018, 51, 297-303.	2.6	18
51	Programmable Hierarchical Construction of Mixed/Multilayered Polysaccharide Nanocapsules through Simultaneous/Sequential Nanoprecipitation Steps. <i>Biomacromolecules</i> , 2019, 20, 3915-3923.	5.4	18
52	Sweet kiss of dying cell: Sialidase activity on apoptotic cell is able to act toward its neighbors. <i>Autoimmunity</i> , 2012, 45, 574-578.	2.6	16
53	Brilliant glyconanocapsules for trapping of bacteria. <i>Chemical Communications</i> , 2015, 51, 13193-13196.	4.1	16
54	Affinity of Glycan-Modified Nanodiamonds towards Lectins and Uropathogenic <i>Escherichia Coli</i> . <i>ChemNanoMat</i> , 2016, 2, 307-314.	2.8	16

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55	Comparative study of human breast carcinoma MCF-7 cells differing in their resistance to doxorubicin: effect of ionizing radiation on apoptosis and TGF-beta production. <i>Experimental Oncology</i> , 2004, 26, 111-7.	0.1	16
56	Effect of iron-doped multi-walled carbon nanotubes on lipid model and cellular plasma membranes. <i>Materials Science and Engineering C</i> , 2012, 32, 1486-1489.	7.3	15
57	Surface Plasmon Resonance (SPR) for the Evaluation of Shear-Force-Dependent Bacterial Adhesion. <i>Biosensors</i> , 2015, 5, 276-287.	4.7	15
58	Desialylation of dying cells with catalytically active antibodies possessing sialidase activity facilitate their clearance by human macrophages. <i>Clinical and Experimental Immunology</i> , 2014, 179, 17-23.	2.6	15
59	Improved photodynamic effect through encapsulation of two photosensitizers in lipid nanocapsules. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5949-5963.	5.8	15
60	Oligomannose-Rich Membranes of Dying Intestinal Epithelial Cells Promote Host Colonization by Adherent-Invasive <i>E. coli</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 742.	3.5	15
61	Physiochemical Tuning of Potent <i>Escherichia coli</i> Adhesives by Microencapsulation and Methylene Homologation. <i>ChemMedChem</i> , 2017, 12, 986-998.	3.2	14
62	Neutrophils as Main Players of Immune Response towards Nondegradable Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1273.	4.1	14
63	A Novel Integrated Way for Deciphering the Glycan Code for the FimH Lectin. <i>Molecules</i> , 2018, 23, 2794.	3.8	13
64	Detection of dying cells using lectin-conjugated fluorescent and luminescent nanoparticles. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009, 40, 234-237.	0.9	12
65	Antibody-mediated sialidase activity in blood serum of patients with multiple myeloma. <i>Journal of Molecular Recognition</i> , 2011, 24, 576-584.	2.1	12
66	Glycosylation of random IgG distinguishes seropositive and seronegative rheumatoid arthritis. <i>Autoimmunity</i> , 2018, 51, 111-117.	2.6	12
67	Active NET formation in Libman-Sacks endocarditis without antiphospholipid antibodies: A dramatic onset of systemic lupus erythematosus. <i>Autoimmunity</i> , 2018, 51, 310-318.	2.6	11
68	Rapid Generation of Coronaviral Immunity Using Recombinant Peptide Modified Nanodiamonds. <i>Pathogens</i> , 2021, 10, 861.	2.8	10
69	Apoptosis-related changes in plasma membrane glycoconjugates of peripheral blood lymphocytes in rheumatoid arthritis. <i>Autoimmunity</i> , 2009, 42, 334-336.	2.6	9
70	Eu^{3+} -NaGdF ₄ :Eu ³⁺ nanocrystal markers for melanoma tumor imaging. <i>RSC Advances</i> , 2016, 6, 57854-57862.	3.6	9
71	Autoantibodies Recognizing Secondary Necrotic Cells Promote Neutrophilic Phagocytosis and Identify Patients With Systemic Lupus Erythematosus. <i>Frontiers in Immunology</i> , 2018, 9, 989.	4.8	9
72	(Invited) Lanthanides Fluorides Doped Nanocrystals for Biomedical Applications. <i>ECS Transactions</i> , 2014, 61, 115-125.	0.5	8

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73	The Potential of Developing Pan-Coronaviral Antibodies to Spike Peptides in Convalescent COVID-19 Patients. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2021, 69, 5.	2.3	8
74	Editorial: Nano- and Microparticle-Induced Cell Death, Inflammation and Immune Responses. <i>Frontiers in Immunology</i> , 2019, 10, 844.	4.8	7
75	Novel approach for discrimination of eosinophilic granulocytes and evaluation of their surface receptors in a multicolor fluorescent histological assessment. <i>Ukrainian Biochemical Journal</i> , 2020, 92, 99-106.	0.5	7
76	Visualization of melanoma tumor with lectin-conjugated rare-earth doped fluoride nanocrystals. <i>Croatian Medical Journal</i> , 2014, 55, 186-194.	0.7	6
77	Oligoperoxide Based Physically Detectable Nanocomposites for Cell Targeting, Visualization and Treatment. , 2010, , .		5
78	Can we use rare-earth nanocrystals to target glycans for the visualization of melanoma?. <i>Nanomedicine</i> , 2015, 10, 1997-2000.	3.3	5
79	An Endoplasmic Reticulum Specific Pro-amplicifier of Reactive Oxygen Species in Cancer Cells. <i>Angewandte Chemie</i> , 2021, 133, 11258-11262.	2.0	5
80	Anticancer Aminoferrocene Derivatives Inducing Production of Mitochondrial Reactive Oxygen Species. <i>Chemistry - A European Journal</i> , 2022, 28, e202104420.	3.3	5
81	Novel assay for direct fluorescent imaging of sialidase activity. , 2011, , .		4
82	Low amounts of bisecting glycans characterize cerebrospinal fluid-borne IgG. <i>Journal of Neuroimmunology</i> , 2018, 320, 19-24.	2.3	4
83	Interaction of 4 allotropic modifications of carbon nanoparticles with living tissues. <i>Ukrainian Biochemical Journal</i> , 2019, 91, 41-50.	0.5	4
84	Blood serum immunoglobulins of patients with multiple myeloma are capable of hydrolysing histone H1. <i>Experimental Oncology</i> , 2009, 31, 97-101.	0.1	4
85	Catch and release strategy of matrix metalloprotease aptamers <i>via</i> thiolâ€“disulfide exchange reaction on a graphene based electrochemical sensor. <i>Sensors & Diagnostics</i> , 2022, 1, 739-749.	3.8	4
86	<title>A new method of quantitative determination of apoptotic parameters in cellular suspensions</title>. , 2004, 5477, 530.		3
87	1.58â€“rheumatoid factor binding is influenced by the N-Glycans of their ICG targets. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, A25.1-A25.	0.9	3
88	Magnetic separation of apoptotic cells with lectinâ€“conjugated microparticles. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 189-192.	0.9	3
89	Sweet taste of cell death: role of carbohydrate recognition systems. <i>Ukrainian Biochemical Journal</i> , 2013, 85, 183-196.	0.5	3
90	A brief account of Julius Planer's life and research. <i>Condensed Matter Physics</i> , 2010, 13, 37003.	0.7	3

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91	Histone H1/MBP hydrolysing antibodies - novel potential marker in diagnosis of disease severity in systematic lupus erythematosus patients. Health, 2010, 02, 1204-1207.	0.3	2
92	Two-step chromatography purification of IgGs possessing sialidase activity from human blood serum. Biomedical Chromatography, 2015, 29, 328-332.	1.7	2
93	Nano- and Microparticles and Their Role in Inflammation and Immune Response: Focus on Neutrophil Extracellular Traps. , 2022, , 149-170.		2
94	Freezing influences, the exposure of IgG glycans in sera from multiple sclerosis patients. Ukrainian Biochemical Journal, 2020, 92, 21-31.	0.5	2
95	Light scattering application for bacterial cell monitoring during cultivation process. Proceedings of SPIE, 2007, 6631, 412.	0.8	1
96	Mice with pituitary tumor transforming gene (pttg) knockout demonstrate increased urinary space in renal corpuscles. Biopolymers and Cell, 2014, 30, 122-128.	0.4	1
97	FUNDAMENTAL AND APPLIED LECTINOLOGY: CONTRIBUTION OF LVIV SCIENTISTS (1972-2017) DEDICATED TO 75TH BIRTH ANNIVERSARY OF MAXYM D. LUTSIK " LVIV LECTINOLOGISTS TEAM FOUNDER. Proceedings of the Shevchenko Scientific Society Medical Sciences, 2017, 50, 10-22.	0.3	1
98	Proteolytic activity of IgG-antibodies of mice, immunized by calf thymus histones. Ukrainian Biochemical Journal, 2014, 86, 79-88.	0.5	1
99	Pathways of neutrophil activation by natural hydrophobic nanocrystals. Experimental and Clinical Physiology and Biochemistry, 2018, 2018, 68-73.	0.0	1
100	INVOLVEMENT OF NEUTROPHIL HYDROLYTIC ENZYMES IN THE MODIFICATION OF CIRCULATING IMMUNE COMPLEXES UNDER THE CIRCUMSTANCES OF EXPERIMENTAL SEPSIS. Proceedings of the Shevchenko Scientific Society Medical Sciences, 2019, 55, 31-39.	0.3	1
101	Light scattering application for quantitative estimation of apoptosis. , 2004, 5330, 132.		0
102	<title>Some new approaches to the detection of programmed cell death</title>. , 2006, 6163, 161.		0
103	Method of determination of aerosol microparticles' size distribution by iteration process. , 2006, , .		0
104	Rapid detection of bacterial cells by light scattering method. , 2008, , .		0
105	Enhanced cytotoxicity of anticancer drug delivered by novel nanoscale polymeric carrier. Journal of Physics: Conference Series, 2013, 429, 012038.	0.4	0
106	The interaction of the carbon nanoparticles with human cell plasma membrane. , 2013, , .		0
107	Die Rolle von Granulozyten-Chromatinnetzen ("NETs") bei der Entstehung von Gallensteinen. Zeitschrift Fur Gastroenterologie, 2021, 59, .	0.5	0
108	Interaction of Doxorubicine-Containing Lipophilic Nanocarriers with Human Breast Cancer Cells MCF-7. , 2012, , .		0

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109	Simple two-step covalent protein conjugation to PEG-coated nanocrystals. Ukrainian Biochemical Journal, 2018, 90, 8-12.	0.5	0
110	Висока ефективність та безпека використання наночастинок у лікуванні онкологічних захворювань. Український біохімічний журнал, 2020, 92, 65-70.		