Rostyslav Bilyy

List of Publications by Year
in descending order

110	4,668	185998 28	106150 65
papers	citations	h-index	g-index

112	112	112	7319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aggregated neutrophil extracellular traps limit inflammation by degrading cytokines and chemokines. Nature Medicine, 2014, 20, 511-517.	15.2	734
2	Host DNases prevent vascular occlusion by neutrophil extracellular traps. Science, 2017, 358, 1202-1206.	6.0	426
3	To NET or not to NET:current opinions and state of the science regarding the formation of neutrophil extracellular traps. Cell Death and Differentiation, 2019, 26, 395-408.	5.0	295
4	Cytotoxicity of crystals involves RIPK3-MLKL-mediated necroptosis. Nature Communications, 2016, 7, 10274.	5.8	220
5	PMA and crystalâ€induced neutrophil extracellular trap formation involves RIPK1â€RIPK3â€MLKL signaling. European Journal of Immunology, 2016, 46, 223-229.	1.6	200
6	Mitochondrial dynamics during cell cycling. Apoptosis: an International Journal on Programmed Cell Death, 2016, 21, 1327-1335.	2.2	193
7	Patients with COVID-19: in the dark-NETs of neutrophils. Cell Death and Differentiation, 2021, 28, 3125-3139.	5.0	189
8	Lysosomeâ€Targeting Amplifiers of Reactive Oxygen Species as Anticancer Prodrugs. Angewandte Chemie - International Edition, 2017, 56, 15545-15549.	7.2	132
9	Nanoparticles size-dependently initiate self-limiting NETosis-driven inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5856-E5865.	3.3	128
10	Neutrophil Extracellular Traps Initiate Gallstone Formation. Immunity, 2019, 51, 443-450.e4.	6.6	115
11	Decrease of sialic acid residues as aneat-mesignal on the surface of apoptotic lymphocytes. Journal of Cell Science, 2010, 123, 3347-3356.	1.2	107
12	Macrophages Discriminate Glycosylation Patterns of Apoptotic Cell-derived Microparticles. Journal of Biological Chemistry, 2012, 287, 496-503.	1.6	85
13	Mitochondria Permeability Transition versus Necroptosis in Oxalate-Induced AKI. Journal of the American Society of Nephrology: JASN, 2019, 30, 1857-1869.	3.0	81
14	Thiazolylaminomannosides As Potent Antiadhesives of Type 1 Piliated Escherichia coli Isolated from Crohnâ€™s Disease Patients. Journal of Medicinal Chemistry, 2013, 56, 5395-5406.	2.9	79
15	Reduced Graphene-Oxide-Embedded Polymeric Nanofiber Mats: An â€œOn-Demandâ€•Photothermally Triggered Antibiotic Release Platform. ACS Applied Materials & Interfaces, 2018, 10, 41098-41106.	4.0	75
16	ROSâ€Responsive Nâ€Alkylaminoferrocenes for Cancerâ€Cellâ€Specific Targeting of Mitochondria. Angewandte Chemie - International Edition, 2018, 57, 11943-11946.	7.2	74
17	Plasmonic photothermal cancer therapy with gold nanorods/reduced graphene oxide core/shell nanocomposites. RSC Advances, 2016, 6, 1600-1610.	1.7	70
18	Sweet but dangerous â€“ the role of immunoglobulin G glycosylation in autoimmunity and inflammation. Lupus, 2016, 25, 934-942.	0.8	69

#	Article	IF	Citations
19	Altered glycosylation of complexed native IgG molecules is associated with disease activity of systemic lupus erythematosus. Lupus, 2015, 24, 569-581.	0.8	64
20	Glycopolymers as Antiadhesives of E. coli Strains Inducing Inflammatory Bowel Diseases. Biomacromolecules, 2015, 16, 1827-1836.	2.6	58
21	Neutrophil Extracellular Traps Form a Barrier between Necrotic and Viable Areas in Acute Abdominal Inflammation. Frontiers in Immunology, 2016, 7, 424.	2.2	58
22	Oxidative Burst-Dependent NETosis Is Implicated in the Resolution of Necrosis-Associated Sterile Inflammation. Frontiers in Immunology, 2016, 7, 557.	2.2	55
23	Water-Soluble Pristine Fullerenes C₆₀ Increase the Specific Conductivity and Capacity of Lipid Model Membrane and form the Channels in Cellular Plasma Membrane. Journal of Biomedical Nanotechnology, 2012, 8, 522-527.	0.5	55
24	The Antiadhesive Strategy in Crohnâ€²s Disease: Orally Active Mannosides to Decolonize Pathogenic Escherichia coli from the Gut. ChemBioChem, 2016, 17, 936-952.	1.3	46
25	Second generation of thiazolylmannosides, FimH antagonists for E. coli-induced Crohn's disease. Organic and Biomolecular Chemistry, 2016, 14, 3913-3925.	1.5	43
26	Flexible Nanoholey Patches for Antibiotic-Free Treatments of Skin Infections. ACS Applied Materials & Interfaces, 2017, 9, 36665-36674.	4.0	42
27	An Endoplasmic Reticulum Specific Proâ€amplifier of Reactive Oxygen Species in Cancer Cells. Angewandte Chemie - International Edition, 2021, 60, 11158-11162.	7.2	34
28	The Pathogenicity of Anti-Î²2GP1-IgG Autoantibodies Depends on Fc Glycosylation. Journal of Immunology Research, 2015, 2015, 1-12.	0.9	33
29	Search for novel cell surface markers of apoptotic cells. Autoimmunity, 2007, 40, 249-253.	1.2	31
30	Aluminum oxide nanowires as safe and effective adjuvants for next-generation vaccines. Materials Today, 2019, 22, 58-66.	8.3	30
31	Inert Coats of Magnetic Nanoparticles Prevent Formation of Occlusive Intravascular Co-aggregates With Neutrophil Extracellular Traps. Frontiers in Immunology, 2018, 9, 2266.	2.2	29
32	Cytochemical study of role of ?-d-mannose- and ?-d-galactose-containing glycoproteins in apoptosis. Journal of Molecular Histology, 2004, 35, 829-838.	1.0	28
33	Blood-borne phagocytes internalize urate microaggregates and prevent intravascular NETosis by urate crystals. Scientific Reports, 2016, 6, 38229.	1.6	28
34	AMID: new insights on its intracellular localization and expression at apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2008, 13, 729-732.	2.2	26
35	UVB-irradiated apoptotic cells induce accelerated growth of co-implanted viable tumor cells in immune competent mice. Autoimmunity, 2013, 46, 317-322.	1.2	26
36	Sialylation of anti-histone immunoglobulin G autoantibodies determines their capabilities to participate in the clearance of late apoptotic cells. Clinical and Experimental Immunology, 2016, 184, 110-117.	1.1	26

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37	Altered glycan accessibility on native immunoglobulin G complexes in early rheumatoid arthritis and its changes during therapy. Clinical and Experimental Immunology, 2017, 189, 372-382.	1.1	26
38	Highly effective photodynamic inactivation of E. coli using gold nanorods/SiO‹sub›2‹/sub› coreâ€“shell nanostructures with embedded verteporfin. Chemical Communications, 2015, 51, 16365-16368.	2.2	25
39	Lysosomeâ€Targeting Amplifiers of Reactive Oxygen Species as Anticancer Prodrugs. Angewandte Chemie, 2017, 129, 15751-15755.	1.6	25
40	Novel fluorescent poly(glycidyl methacrylate) â€“ Silica microspheres. European Polymer Journal, 2014, 56, 92-104.	2.6	24
41	A blast without power â€“ cell death induced by the tuberculosis-necrotizing toxin fails to elicit adequate immune responses. Cell Death and Differentiation, 2016, 23, 1016-1025.	5.0	22
42	Comparative study of membranotropic action of single- and multi-walled carbon nanotubes. Journal of Bioscience and Bioengineering, 2013, 115, 674-679.	1.1	21
43	ROSâ€Responsive Nâ€Alkylaminoferrocenes for Cancerâ€Cellâ€Specific Targeting of Mitochondria. Angewandte Chemie, 2018, 130, 12119-12122.	1.6	21
44	The Progression of Cell Death Affects the Rejection of Allogeneic Tumors in Immune-Competent Mice Ã¢â‚¬â€œ Implications for Cancer Therapy. Frontiers in Immunology, 2014, 5, 560.	2.2	20
45	Utilization of GaN:Eu3+ nanocrystals for the detection of programmed cell death. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2096-2099.	1.3	19
46	Autoimmune, rheumatic, chronic inflammatory diseases: Neutrophil extracellular traps on parade. Autoimmunity, 2018, 51, 281-287.	1.2	19
47	In vivo expression and characteristics of novel Î±-mannose-rich glycoprotein markers of apoptotic cells. Cell Biology International, 2005, 29, 920-928.	1.4	18
48	Antiâ€histone H1 IgGs from blood serum of systemic lupus erythematosus patients are capable of hydrolyzing histone H1 and myelin basic protein. Journal of Molecular Recognition, 2010, 23, 495-502.	1.1	18
49	Inosine Released from Dying or Dead Cells Stimulates Cell Proliferation via Adenosine Receptors. Frontiers in Immunology, 2017, 8, 504.	2.2	18
50	Neutrophil-released enzymes can influence composition of circulating immune complexes in multiple sclerosis. Autoimmunity, 2018, 51, 297-303.	1.2	18
51	Programmable Hierarchical Construction of Mixed/Multilayered Polysaccharide Nanocapsules through Simultaneous/Sequential Nanoprecipitation Steps. Biomacromolecules, 2019, 20, 3915-3923.	2.6	18
52	Sweet kiss of dying cell: Sialidase activity on apoptotic cell is able to act toward its neighbors. Autoimmunity, 2012, 45, 574-578.	1.2	16
53	Brilliant glyconanocapsules for trapping of bacteria. Chemical Communications, 2015, 51, 13193-13196.	2.2	16
54	Affinity of Glycanâ€Modified Nanodiamonds towards Lectins and Uropathogenic ‹i›Escherichia Coli‹/i›. ChemNanoMat, 2016, 2, 307-314.	1.5	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. Experimental Oncology, 2004, 26, 111-7.	0.4	16
56	Effect of iron-doped multi-walled carbon nanotubes on lipid model and cellular plasma membranes. Materials Science and Engineering C, 2012, 32, 1486-1489.	3.8	15
57	Surface Plasmon Resonance (SPR) for the Evaluation of Shear-Force-Dependent Bacterial Adhesion. Biosensors, 2015, 5, 276-287.	2.3	15
58	Desialylation of dying cells with catalytically active antibodies possessing sialidase activity facilitate their clearance by human macrophages. Clinical and Experimental Immunology, 2014, 179, 17-23.	1.1	15
59	Improved photodynamic effect through encapsulation of two photosensitizers in lipid nanocapsules. Journal of Materials Chemistry B, 2018, 6, 5949-5963.	2.9	15
60	Oligomannose-Rich Membranes of Dying Intestinal Epithelial Cells Promote Host Colonization by Adherent-Invasive E. coli. Frontiers in Microbiology, 2018, 9, 742.	1.5	15
61	Physiochemical Tuning of Potent Escherichia coli Antiâ€Adhesives by Microencapsulation and Methylene Homologation. ChemMedChem, 2017, 12, 986-998.	1.6	14
62	Neutrophils as Main Players of Immune Response towards Nondegradable Nanoparticles. Nanomaterials, 2020, 10, 1273.	1.9	14
63	A Novel Integrated Way for Deciphering the Glycan Code for the FimH Lectin. Molecules, 2018, 23, 2794.	1.7	13
64	Detection of dying cells using lectin-conjugated fluorescent and luminescent nanoparticles. Materialwissenschaft Und Werkstofftechnik, 2009, 40, 234-237.	0.5	12
65	Antibodyâ€mediated sialidase activity in blood serum of patients with multiple myeloma. Journal of Molecular Recognition, 2011, 24, 576-584.	1.1	12
66	Glycosylation of random IgG distinguishes seropositive and seronegative rheumatoid arthritis. Autoimmunity, 2018, 51, 111-117.	1.2	12
67	Active NET formation in Libmanâ€“Sacks endocarditis without antiphospholipid antibodies: A dramatic onset of systemic lupus erythematosus. Autoimmunity, 2018, 51, 310-318.	1.2	11
68	Rapid Generation of Coronaviral Immunity Using Recombinant Peptide Modified Nanodiamonds. Pathogens, 2021, 10, 861.	1.2	10
69	Apoptosis-related changes in plasma membrane glycoconjugates of peripheral blood lymphocytes in rheumatoid arthritis. Autoimmunity, 2009, 42, 334-336.	1.2	9
70	Î²-NaGdF4:Eu3+ nanocrystal markers for melanoma tumor imaging. RSC Advances, 2016, 6, 57854-57862.	1.7	9
71	Autoantibodies Recognizing Secondary NEcrotic Cells Promote Neutrophilic Phagocytosis and Identify Patients With Systemic Lupus Erythematosus. Frontiers in Immunology, 2018, 9, 989.	2.2	9
72	(Invited) Lanthanides Fluorides Doped Nanocrystals for Biomedical Applications. ECS Transactions, 2014, 61, 115-125.	0.3	8

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73	The Potential of Developing Pan-Coronaviral Antibodies to Spike Peptides in Convalescent COVID-19 Patients. Archivum Immunologiae Et Therapiae Experimentalis, 2021, 69, 5.	1.0	8
74	Editorial: Nano- and Microparticle-Induced Cell Death, Inflammation and Immune Responses. Frontiers in Immunology, 2019, 10, 844.	2.2	7
75	Novel approach for discrimination of eosinophilic granulocytes and evaluation of their surface receptors in a multicolor fluorescent histological assessment. Ukrainian Biochemical Journal, 2020, 92, 99-106.	0.1	7
76	Visualization of melanoma tumor with lectin-conjugated rare-earth doped fluoride nanocrystals. Croatian Medical Journal, 2014, 55, 186-194.	0.2	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?. Nanomedicine, 2015, 10, 1997-2000.	1.7	5
79	An Endoplasmic Reticulum Specific Proâ€amplifier of Reactive Oxygen Species in Cancer Cells. Angewandte Chemie, 2021, 133, 11258-11262.	1.6	5
80	Anticancer Aminoferrocene Derivatives Inducing Production of Mitochondrial Reactive Oxygen Species. Chemistry - A European Journal, 2022, 28, e202104420.	1.7	5
81	Novel assay for direct fluorescent imaging of sialidase activity. , 2011, , .		4
82	Low amounts of bisecting glycans characterize cerebrospinal fluid-borne IgG. Journal of Neuroimmunology, 2018, 320, 19-24.	1.1	4
83	Interaction of 4 allotropic modifications of carbon nanoparticles with living tissues. Ukrainian Biochemical Journal, 2019, 91, 41-50.	0.1	4
84	Blood serum immunoglobulins of patients with multiple myeloma are capable of hydrolysing histone H1. Experimental Oncology, 2009, 31, 97-101.	0.4	4
85	Catch and release strategy of matrix metalloprotease aptamers via thiolâ€“disulfide exchange reaction on a graphene based electrochemical sensor. Sensors & Diagnostics, 2022, 1, 739-749.	1.9	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 IGG targets. Annals of the Rheumatic Diseases, 2014, 73, A25.1-A25.	0.5	3
88	Magnetic separation of apoptotic cells with lectinâ€conjugated microparticles. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 189-192.	0.5	3
89	Sweet taste of cell death: role of carbohydrate recognition systems. Ukrainian Biochemical Journal, 2013, 85, 183-196.	0.1	3
90	A brief account of Julius Planer's life and research. Condensed Matter Physics, 2010, 13, 37003.	0.3	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.	0.1	2
92	Twoâ€step chromatography purification of IgGs possessing sialidase activity from human blood serum. Biomedical Chromatography, 2015, 29, 328-332.	0.8	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.	0.1	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.	0.1	1
97	FUNDAMENTAL AND APPLIED LECTINOLOGY: CONTRIBUTION OF LVIV SCIENTISTS (1972-2017) DEDICATED TO 75TH BIRTH ANNIVERSARY OF MAXYM D. LUTSIK â€“ 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.	0.1	1
99	Pathways of neutrophil activation by natural hydrophobic nanocrystals. Experimental and Clinical Physiology and Biochemistry, 2018, 2018, 68-73.	0.2	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.	0.3	0
106	The interaction of the carbon nanoparticles with human cell plasma membrane. , 2013, , .		0
107	Die Rolle von granulozytÃren Chromatinnetzen (â€žNETsâ€œ) bei der Entstehung von Gallensteinen. Zeitschrift Fur Gastroenterologie, 2021, 59, .	0.2	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.	0.1	0
110	Đ©Đž ĐĐĐ¡ĐŸĐĐĐ’Đ”Đ† ĐžĐ—ĐĐĐ§ĐĐ„ Đ¢Đ•Đ¡Đ¢Đ£Đ’ĐĐĐĐ¯ ĐĐ•ĐšĐžĐĐžĐĐĐ’Đ†ĐĐ£Đ¡ Đ”Đ›Đ¯ ĐŸĐĐ¦Đ†Đ„ĐĐ¢Đ?. ,Q2020, , 65-		