

Myron R Szewczuk

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

1,626
citations

23
h-index

38
g-index

72
ext. papers

1,930
ext. citations

5.2
avg, IF

4.89
L-index

#	Paper	IF	Citations
70	Neu1 desialylation of sialyl alpha-2,3-linked beta-galactosyl residues of TOLL-like receptor 4 is essential for receptor activation and cellular signaling. <i>Cellular Signalling</i> , 2010 , 22, 314-24	4.9	139
69	Current Challenges in Cancer Immunotherapy: Multimodal Approaches to Improve Efficacy and Patient Response Rates. <i>Journal of Oncology</i> , 2019 , 2019, 4508794	4.5	115
68	Recent advances in "smart" delivery systems for extended drug release in cancer therapy. <i>International Journal of Nanomedicine</i> , 2018 , 13, 4727-4745	7.3	109
67	Dependence of pathogen molecule-induced toll-like receptor activation and cell function on Neu1 sialidase. <i>Glycoconjugate Journal</i> , 2009 , 26, 1197-212	3	90
66	Loss of immune competence with age may be due to auto-anti-idiotypic antibody regulation. <i>Nature</i> , 1980 , 286, 164-6	50.4	76
65	A novel insulin receptor-signaling platform and its link to insulin resistance and type 2 diabetes. <i>Cellular Signalling</i> , 2014 , 26, 1355-68	4.9	61
64	Neu1 sialidase and matrix metalloproteinase-9 cross-talk is essential for Toll-like receptor activation and cellular signaling. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36532-49	5.4	59
63	A novel epidermal growth factor receptor-signaling platform and its targeted translation in pancreatic cancer. <i>Cellular Signalling</i> , 2013 , 25, 2587-603	4.9	55
62	Aging, idiotype repertoire shifts, and compartmentalization of the mucosal-associated lymphoid system. <i>Advances in Immunology</i> , 1984 , 36, 143-88	5.6	53
61	Regulation of phagocytosis in macrophages by neuraminidase 1. <i>Journal of Biological Chemistry</i> , 2010 , 285, 206-15	5.4	52
60	Neu1 sialidase and matrix metalloproteinase-9 cross-talk is essential for neurotrophin activation of Trk receptors and cellular signaling. <i>Cellular Signalling</i> , 2010 , 22, 1193-205	4.9	50
59	Neuraminidase-1: a novel therapeutic target in multistage tumorigenesis. <i>Oncotarget</i> , 2016 , 7, 40860-40881	3.9	45
58	G-protein coupled receptor agonists mediate Neu1 sialidase and matrix metalloproteinase-9 cross-talk to induce transactivation of TOLL-like receptors and cellular signaling. <i>Cellular Signalling</i> , 2012 , 24, 2035-42	4.9	43
57	Dependence of neurotrophic factor activation of Trk tyrosine kinase receptors on cellular sialidase. <i>Glycobiology</i> , 2007 , 17, 10-24	5.8	42
56	Neu1 sialidase and matrix metalloproteinase-9 cross-talk regulates nucleic acid-induced endosomal TOLL-like receptor-7 and -9 activation, cellular signaling and pro-inflammatory responses. <i>Cellular Signalling</i> , 2013 , 25, 2093-105	4.9	37
55	Therapeutic targeting of Neu1 sialidase with oseltamivir phosphate (Tamiflu®) disables cancer cell survival in human pancreatic cancer with acquired chemoresistance. <i>OncoTargets and Therapy</i> , 2014 , 7, 117-34	4.4	32
54	Therapeutic potential of medicinal marijuana: an educational primer for health care professionals. <i>Drug, Healthcare and Patient Safety</i> , 2018 , 10, 45-66	1.6	30

53	Biased G protein-coupled receptor agonism mediates Neu1 sialidase and matrix metalloproteinase-9 crosstalk to induce transactivation of insulin receptor signaling. <i>Cellular Signalling</i> , 2018 , 43, 71-84	4.9	28
52	Trypanosome trans-sialidase targets TrkA tyrosine kinase receptor and induces receptor internalization and activation. <i>Glycobiology</i> , 2004 , 14, 987-98	5.8	27
51	Folic acid-conjugated amphiphilic alternating copolymer as a new active tumor targeting drug delivery platform. <i>Drug Design, Development and Therapy</i> , 2016 , 10, 4101-4110	4.4	27
50	Detection of Neu1 sialidase activity in regulating Toll-like receptor activation. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	26
49	Trypanosome trans-sialidase mediates neuroprotection against oxidative stress, serum/glucose deprivation, and hypoxia-induced neurite retraction in Trk-expressing PC12 cells. <i>Glycobiology</i> , 2007 , 17, 725-34	5.8	25
48	Transcriptional factor snail controls tumor neovascularization, growth and metastasis in mouse model of human ovarian carcinoma. <i>Clinical and Translational Medicine</i> , 2014 , 3, 28	5.7	24
47	Non-Nutritive Sweeteners and Their Implications on the Development of Metabolic Syndrome. <i>Nutrients</i> , 2019 , 11,	6.7	22
46	Thymoquinone from nutraceutical black cumin oil activates Neu4 sialidase in live macrophage, dendritic, and normal and type I sialidosis human fibroblast cells via GPCR Galphai proteins and matrix metalloproteinase-9. <i>Glycoconjugate Journal</i> , 2010 , 27, 329-48	3	21
45	Oseltamivir phosphate monotherapy ablates tumor neovascularization, growth, and metastasis in mouse model of human triple-negative breast adenocarcinoma. <i>Breast Cancer: Targets and Therapy</i> , 2014 , 6, 191-203	3.9	19
44	Sialylation transmogrifies human breast and pancreatic cancer cells into 3D multicellular tumor spheroids using cyclic RGD-peptide induced self-assembly. <i>Oncotarget</i> , 2016 , 7, 66119-66134	3.3	19
43	The TLR2 agonists lipoteichoic acid and Pam3CSK4 induce greater pro-inflammatory responses than inactivated Mycobacterium butyricum. <i>Cellular Immunology</i> , 2012 , 280, 101-7	4.4	18
42	Thymoquinone-induced Neu4 sialidase activates NF κ B in macrophage cells and pro-inflammatory cytokines in vivo. <i>Glycoconjugate Journal</i> , 2010 , 27, 583-600	3	18
41	Alternative therapies for metastatic breast cancer: multimodal approach targeting tumor cell heterogeneity. <i>Breast Cancer: Targets and Therapy</i> , 2017 , 9, 85-93	3.9	16
40	Agonist-Biased Signaling via Matrix Metalloproteinase-9 Promotes Extracellular Matrix Remodeling. <i>Cells</i> , 2018 , 7,	7.9	16
39	Ontogeny of B lymphocyte function. VIII. Failure of thymus cells from aged donors to induce the functional maturation of B lymphocytes from immature donors. <i>European Journal of Immunology</i> , 1980 , 10, 918-23	6.1	14
38	Therapeutic Options for Metastatic Breast Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1152, 131-172	3.6	14
37	Sialylation facilitates self-assembly of 3D multicellular prostaspheres by using cyclo-RGDfK(TPP) peptide. <i>OncoTargets and Therapy</i> , 2017 , 10, 2427-2447	4.4	13
36	Oseltamivir-conjugated polymeric micelles prepared by RAFT living radical polymerization as a new active tumor targeting drug delivery platform. <i>Biomaterials Science</i> , 2016 , 4, 511-21	7.4	13

35	Aging and the mucosal-associated lymphoid system. <i>Annals of the New York Academy of Sciences</i> , 1983 , 409, 333-44	6.5	13
34	Combinatorial and sequential delivery of gemcitabine and oseltamivir phosphate from implantable poly(d,l-lactic-co-glycolic acid) cylinders disables human pancreatic cancer cell survival. <i>Drug Design, Development and Therapy</i> , 2017 , 11, 2239-2250	4.4	12
33	The Biased G-Protein-Coupled Receptor Agonism Bridges the Gap between the Insulin Receptor and the Metabolic Syndrome. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	11
32	Oseltamivir phosphate released from injectable Pickering emulsions over an extended term disables human pancreatic cancer cell survival. <i>Oncotarget</i> , 2018 , 9, 12754-12768	3.3	11
31	Functionalized Folic Acid-Conjugated Amphiphilic Alternating Copolymer Actively Targets 3D Multicellular Tumour Spheroids and Delivers the Hydrophobic Drug to the Inner Core. <i>Nanomaterials</i> , 2018 , 8,	5.4	10
30	Analysis of serum antibody repertoires by isoelectric focusing and capillary blotting onto nitrocellulose paper. <i>Journal of Immunological Methods</i> , 1986 , 89, 201-5	2.5	10
29	Ontogeny of B lymphocyte function. X. Strain differences in maturation of the capacity of the B lymphocyte population to produce a high-affinity antibody response. <i>European Journal of Immunology</i> , 1981 , 11, 32-8	6.1	10
28	Evidence for histamine-induced auto-anti-idiotypic antibody immunoregulation in vivo. <i>Cellular Immunology</i> , 1981 , 65, 152-65	4.4	9
27	Lack of age-associated auto-anti-idiotypic antibody regulation in mucosal-associated lymph nodes. <i>European Journal of Immunology</i> , 1981 , 11, 650-6	6.1	9
26	A Triple Combination of Metformin, Acetylsalicylic Acid, and Oseltamivir Phosphate Impacts Tumour Spheroid Viability and Upends Chemoresistance in Triple-Negative Breast Cancer. <i>Drug Design, Development and Therapy</i> , 2020 , 14, 1995-2019	4.4	8
25	Novel Molecular Mechanism of Aspirin and Celecoxib Targeting Mammalian Neuraminidase-1 Impedes Epidermal Growth Factor Receptor Signaling Axis and Induces Apoptosis in Pancreatic Cancer Cells. <i>Drug Design, Development and Therapy</i> , 2020 , 14, 4149-4167	4.4	8
24	Therapeutic designed poly (lactic-co-glycolic acid) cylindrical oseltamivir phosphate-loaded implants impede tumor neovascularization, growth and metastasis in mouse model of human pancreatic carcinoma. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 4573-86	4.4	7
23	Next-Generation Multimodality of Nanomedicine Therapy: Size and Structure Dependence of Folic Acid Conjugated Copolymers Actively Target Cancer Cells in Disabling Cell Division and Inducing Apoptosis. <i>Cancers</i> , 2019 , 11,	6.6	6
22	Selective suppression by auto-anti-idiotypic antibody of B-cell idiootype repertoires generated after stimulation with the same hapten on T-dependent and T-independent carriers. <i>Cellular Immunology</i> , 1983 , 82, 282-91	4.4	6
21	Enhanced natural killer (NK) cell activity and NK-sensitive thymic cells in murine muscular dystrophy. <i>Cellular Immunology</i> , 1983 , 82, 316-25	4.4	6
20	Next-generation multimodality of nutrigenomic cancer therapy: sulforaphane in combination with acetazolamide actively target bronchial carcinoid cancer in disabling the PI3K/Akt/mTOR survival pathway and inducing apoptosis. <i>Oncotarget</i> , 2021 , 12, 1470-1489	3.3	6
19	DIVERGENT SHIFTS IN T-LYMPHOCYTE SUBPOPULATIONS AMONG MUCOSAL LYMPHOID TISSUES OF MICE WITH INCREASING AGE*. <i>Annals of the New York Academy of Sciences</i> , 1983 , 409, 806-807	6.5	5
18	Strain differences in the development of auto-anti-idiotypic antibody regulation with age: genetic linkage to the Igh-C locus. <i>Cellular Immunology</i> , 1984 , 84, 393-402	4.4	4

17	Natural killer (NK) cell activity in murine muscular dystrophy. II. Age-related tissue distribution and enhanced NK activity in the thymus of dystrophic mice. <i>Clinical Immunology and Immunopathology</i> , 1984 , 33, 144-53		3
16	Age-related strain differences in the development of auto-anti-idiotypic antibody regulation in the splenic and mucosal-associated lymphoid systems. <i>Gerontology</i> , 1985 , 31, 251-62	5.5	3
15	3D Multicellular Stem-Like Human Breast Tumor Spheroids Enhance Tumorigenicity of Orthotopic Xenografts in Athymic Nude Rat Model. <i>Cancers</i> , 2021 , 13,	6.6	3
14	Impact of Fucosylation on Self-Assembly of Prostate and Breast Tumor Spheroids by Using Cyclo-RGDfK(TPP) Peptide and Image Object Detection. <i>OncoTargets and Therapy</i> , 2019 , 12, 11153-11173	4.4	3
13	Natural killer cells in murine muscular dystrophy. IV. Characterization of Percoll fractionated splenic and thymic natural killer cells and natural killer-sensitive thymocyte targets. <i>Clinical Immunology and Immunopathology</i> , 1986 , 41, 116-29		2
12	Introduction to the Acquisition of Resistance to Targeted Therapy. <i>Resistance To Targeted Anti-cancer Therapeutics</i> , 2019 , 1-33	0.3	2
11	Folic Acid-Functionalized Nanomedicine: Folic Acid Conjugated Copolymer and Folate Receptor Interactions Disrupt Receptor Functionality Resulting in Dual Therapeutic Anti-Cancer Potential in Breast and Prostate Cancer. <i>Bioconjugate Chemistry</i> , 2021 , 32, 512-522	6.3	2
10	Next Generation of Cancer Drug Repurposing: Therapeutic Combination of Aspirin and Oseltamivir Phosphate Potentiates Gemcitabine to Disable Key Survival Pathways Critical for Pancreatic Cancer Progression.. <i>Cancers</i> , 2022 , 14,	6.6	2
9	The crucial role of primary care providers in the long-term follow-up of adult survivors of childhood cancer. <i>Cancer Management and Research</i> , 2019 , 11, 3411-3418	3.6	1
8	Targeting the Tumor Microenvironment to Overcome Resistance to Therapy. <i>Resistance To Targeted Anti-cancer Therapeutics</i> , 2019 , 35-61	0.3	1
7	A novel G-protein-coupled receptor-signaling platform and its targeted translation in human disease. <i>Research and Reports in Biochemistry</i> , 2013 , 17		1
6	Computer Vision for Detecting and Measuring Multicellular Tumor Spheroids of Prostate Cancer 2019 ,		1
5	Drug delivery systems in cancer therapy 2021 , 423-454		1
4	The Next-Generation of Combination Cancer Immunotherapy: Epigenetic Immunomodulators Transmogrify Immune Training to Enhance Immunotherapy. <i>Cancers</i> , 2021 , 13,	6.6	1
3	Formulation, Characterization and Cytotoxicity Effects of Novel Thymoquinone-PLGA-PF68 Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
2	Natural killer cell activity in murine muscular dystrophy. III. NK-sensitive myoblast cells and lack of NK activity in beige/dystrophic hybrid mice. <i>Cellular Immunology</i> , 1986 , 100, 20-33	4.4	
1	IMPAIRMENT OF SECONDARY MEMORY B-LYMPHOCYTES BY ORAL IMMUNIZATION OF AGING MICE*. <i>Annals of the New York Academy of Sciences</i> , 1983 , 409, 887-887	6.5	