

Tatiana Syrovets

List of Publications by Year in descending order

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100
papers

5,572
citations

109321

35
h-index

79698

73
g-index

104
all docs

104
docs citations

104
times ranked

8968
citing authors

#	ARTICLE	IF	CITATIONS
1	NLRP3 inflammasome: From a danger signal sensor to a regulatory node of oxidative stress and inflammatory diseases. <i>Redox Biology</i> , 2015, 4, 296-307.	9.0	566
2	Differential Uptake of Functionalized Polystyrene Nanoparticles by Human Macrophages and a Monocytic Cell Line. <i>ACS Nano</i> , 2011, 5, 1657-1669.	14.6	516
3	Amino-Functionalized Polystyrene Nanoparticles Activate the NLRP3 Inflammasome in Human Macrophages. <i>ACS Nano</i> , 2011, 5, 9648-9657.	14.6	211
4	Differential expression and regulation of protease-activated receptors in human peripheral monocytes and monocyte-derived antigen-presenting cells. <i>Blood</i> , 2003, 102, 2645-2652.	1.4	205
5	Acetyl-Boswellic Acids Are Novel Catalytic Inhibitors of Human Topoisomerases I and II α . <i>Molecular Pharmacology</i> , 2000, 58, 71-81.	2.3	179
6	Plasmin as a proinflammatory cell activator. <i>Journal of Leukocyte Biology</i> , 2012, 92, 509-519.	3.3	175
7	Lysosomal degradation of the carboxydextran shell of coated superparamagnetic iron oxide nanoparticles and the fate of professional phagocytes. <i>Biomaterials</i> , 2010, 31, 9015-9022.	11.4	173
8	Functionalized polystyrene nanoparticles as a platform for studying bio-nano interactions. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2403-2412.	2.8	165
9	Acetyl-Boswellic Acids Inhibit Lipopolysaccharide-Mediated TNF- α Induction in Monocytes by Direct Interaction with I κ B Kinases. <i>Journal of Immunology</i> , 2005, 174, 498-506.	0.8	162
10	Antiinflammatory and Antiatherogenic Effects of the NF- κ B Inhibitor Acetyl-11-Keto- β -Boswellic Acid in LPS-Challenged ApoE ^{-/-} Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 272-277.	2.4	157
11	Inhibition of I κ B Kinase Activity by Acetyl-boswellic Acids Promotes Apoptosis in Androgen-independent PC-3 Prostate Cancer Cells in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , 2005, 280, 6170-6180.	3.4	150
12	Modeling receptor-mediated endocytosis of polymer-functionalized iron oxide nanoparticles by human macrophages. <i>Biomaterials</i> , 2011, 32, 547-555.	11.4	147
13	Plasmin-induced expression of cytokines and tissue factor in human monocytes involves AP-1 and IKK β -mediated NF- κ B activation. <i>Blood</i> , 2001, 97, 3941-3950.	1.4	146
14	The Serine Protease Plasmin Triggers Expression of MCP-1 and CD40 in Human Primary Monocytes via Activation of p38 MAPK and Janus Kinase (JAK)/STAT Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2002, 277, 33509-33517.	3.4	145
15	Anti-Inflammatory and Antiatherogenic Effects of the NLRP3 Inflammasome Inhibitor Argabin in ApoE ^{-/-} Mice Fed a High-Fat Diet. <i>Circulation</i> , 2015, 131, 1061-1070.	1.6	141
16	Carboxyl- and amino-functionalized polystyrene nanoparticles differentially affect the polarization profile of M1 and M2 macrophage subsets. <i>Biomaterials</i> , 2016, 85, 78-87.	11.4	141
17	The effect of carboxydextran-coated superparamagnetic iron oxide nanoparticles on c-Jun N-terminal kinase-mediated apoptosis in human macrophages. <i>Biomaterials</i> , 2010, 31, 5063-5071.	11.4	140
18	Plasmin Triggers Cytokine Induction in Human Monocyte-Derived Macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1383-1389.	2.4	134

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19	Human B Cells Secrete Granzyme B When Recognizing Viral Antigens in the Context of the Acute Phase Cytokine IL-21. <i>Journal of Immunology</i> , 2009, 183, 1838-1845.	0.8	104
20	Identification of the annexin A2 heterotetramer as a receptor for the plasmin-induced signaling in human peripheral monocytes. <i>Blood</i> , 2006, 107, 3342-3349.	1.4	102
21	Thioredoxin-1 Promotes Anti-Inflammatory Macrophages of the M2 Phenotype and Antagonizes Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1445-1452.	2.4	93
22	Targeting NF- κ B with a Natural Triterpenoid Alleviates Skin Inflammation in a Mouse Model of Psoriasis. <i>Journal of Immunology</i> , 2009, 183, 4755-4763.	0.8	80
23	Thrombin and vascular inflammation. <i>Molecular and Cellular Biochemistry</i> , 2012, 359, 301-313.	3.1	80
24	Amino-functionalized nanoparticles as inhibitors of mTOR and inducers of cell cycle arrest in leukemia cells. <i>Biomaterials</i> , 2014, 35, 1944-1953.	11.4	74
25	Human cytomegalovirus infection and atherothrombosis. <i>Journal of Thrombosis and Thrombolysis</i> , 2012, 33, 160-172.	2.1	71
26	Antitumor activity of an <i>Artemisia annua</i> herbal preparation and identification of active ingredients. <i>Phytomedicine</i> , 2019, 62, 152962.	5.3	66
27	Tirucallic Acids Are Novel Pleckstrin Homology Domain-Dependent Akt Inhibitors Inducing Apoptosis in Prostate Cancer Cells. <i>Molecular Pharmacology</i> , 2010, 77, 378-387.	2.3	65
28	Electron tomography reveals the fibril structure and lipid interactions in amyloid deposits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5604-5609.	7.1	56
29	Plasmin Triggers Chemotaxis of Monocyte-Derived Dendritic Cells Through an Akt2-Dependent Pathway and Promotes a T-Helper Type-1 Response. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 582-590.	2.4	49
30	Characterization of 3 β -Acetyl-11-keto- β -boswellic Acid, a Pentacyclic Triterpenoid Inducing Apoptosis in vitro and in vivo. <i>Planta Medica</i> , 2006, 72, 1285-1289.	1.3	45
31	Structural analysis of pentacyclic triterpenes from the gum resin of <i>Boswellia serrata</i> by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2003, 41, 115-122.	1.9	43
32	Modulation of monocytic leukemia cell function and survival by high gradient magnetic fields and mathematical modeling studies. <i>Biomaterials</i> , 2014, 35, 3164-3171.	11.4	41
33	Ethosomes and lipid-coated chitosan nanocarriers for skin delivery of a chlorophyll derivative: A potential treatment of squamous cell carcinoma by photodynamic therapy. <i>International Journal of Pharmaceutics</i> , 2019, 568, 118528.	5.2	41
34	Cellular mechanism of fibril formation from serum amyloid A1 protein. <i>EMBO Reports</i> , 2017, 18, 1352-1366.	4.5	39
35	The CAM cancer xenograft as a model for initial evaluation of MR labelled compounds. <i>Scientific Reports</i> , 2017, 7, 46690.	3.3	39
36	High-resolution MRI analysis of breast cancer xenograft on the chick chorioallantoic membrane. <i>NMR in Biomedicine</i> , 2015, 28, 440-447.	2.8	37

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37	Thrombin-induced expression of endothelial CX3CL1 potentiates monocyte CCL2 production and transendothelial migration. <i>Journal of Leukocyte Biology</i> , 2008, 84, 215-223.	3.3	35
38	Peroxisome Proliferator-activated Receptor δ Induces Apoptosis and Inhibits Autophagy of Human Monocyte-derived Macrophages via Induction of Cathepsin L. <i>Journal of Biological Chemistry</i> , 2011, 286, 28858-28866.	3.4	35
39	Recruitment of CCR6-expressing Th17 cells by CCL20 secreted from plasmin-stimulated macrophages. <i>Acta Biochimica Et Biophysica Sinica</i> , 2013, 45, 593-600.	2.0	35
40	A Novel Semisynthetic Inhibitor of the FRB Domain of Mammalian Target of Rapamycin Blocks Proliferation and Triggers Apoptosis in Chemoresistant Prostate Cancer Cells. <i>Molecular Pharmacology</i> , 2013, 83, 531-541.	2.3	35
41	Truncated thioredoxin (Trx δ 80) promotes pro-inflammatory macrophages of the M1 phenotype and enhances atherosclerosis. <i>Journal of Cellular Physiology</i> , 2013, 228, 1577-1583.	4.1	29
42	An α -Acetoxy-Tirucallic Acid Isomer Inhibits Akt/mTOR Signaling and Induces Oxidative Stress in Prostate Cancer Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 352, 33-42.	2.5	29
43	Surface plasmon resonance analysis of nuclear factor- κ B protein interactions with the sesquiterpene lactone helenalin. <i>Analytical Biochemistry</i> , 2010, 401, 30-37.	2.4	27
44	Comparative Analysis of Pentacyclic Triterpenic Acid Compositions in Oleogum Resins of Different <i>Boswellia</i> Species and Their In Vitro Cytotoxicity against Treatment-Resistant Human Breast Cancer Cells. <i>Molecules</i> , 2019, 24, 2153.	3.8	27
45	Synthesis, Cytotoxic Activity, Crystal Structure, DFT Studies and Molecular Docking of 3-Amino-1-(2,5-dichlorophenyl)-8-methoxy-1H-benzo[f]chromene-2-carbonitrile. <i>Crystals</i> , 2021, 11, 184.	2.2	27
46	Mature Dendritic Cells Express Functional Thrombin Receptors Triggering Chemotaxis and CCL18/Pulmonary and Activation-Regulated Chemokine Induction. <i>Journal of Immunology</i> , 2008, 181, 1215-1223.	0.8	26
47	Comparative Investigation of Frankincense Nutraceuticals: Correlation of Boswellic and Lupeolic Acid Contents with Cytokine Release Inhibition and Toxicity against Triple-Negative Breast Cancer Cells. <i>Nutrients</i> , 2019, 11, 2341.	4.1	26
48	Acovenoside A Induces Mitotic Catastrophe Followed by Apoptosis in Non-Small-Cell Lung Cancer Cells. <i>Journal of Natural Products</i> , 2017, 80, 3203-3210.	3.0	25
49	Chrysosplenol d, a Flavonol from <i>Artemisia annua</i> , Induces ERK1/2-Mediated Apoptosis in Triple Negative Human Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4090.	4.1	25
50	Ciglitazone Inhibits Plasmin-Induced Proinflammatory Monocyte Activation via Modulation of p38 MAP Kinase Activity. <i>Thrombosis and Haemostasis</i> , 2002, 88, 274-281.	3.4	24
51	(8R)-3 β ,8-Dihydroxypolypoda-13E,17E,21-triene Induces Cell Cycle Arrest and Apoptosis in Treatment-Resistant Prostate Cancer Cells. <i>Journal of Natural Products</i> , 2011, 74, 1731-1736.	3.0	23
52	Spatiotemporal magnetic fields enhance cytosolic Ca ²⁺ levels and induce actin polymerization via activation of voltage-gated sodium channels in skeletal muscle cells. <i>Biomaterials</i> , 2018, 163, 174-184.	11.4	23
53	A comparative study on root and bark extracts of <i>Eleutherococcus senticosus</i> and their effects on human macrophages. <i>Phytotherapy Research</i> , 2020, 34, 1531-1541.	5.3	23
54	Boosting Antitumor Drug Efficacy with Chemically Engineered Multidomain Proteins. <i>Advanced Science</i> , 2018, 5, 1701036.	11.2	22

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55	11-Keto- β -Boswellic Acid, a Novel Triterpenoid from <i>Boswellia</i> spp. with Chemotaxonomic Potential and Antitumor Activity against Triple-Negative Breast Cancer Cells. <i>Molecules</i> , 2021, 26, 366.	3.8	22
56	Variability in transport and biotransformation of cytarabine is associated with its toxicity in peripheral blood mononuclear cells. <i>Pharmacogenomics</i> , 2011, 12, 503-514.	1.3	21
57	Oleanolic acid methyl ester, a novel cytotoxic mitocan, induces cell cycle arrest and ROS-Mediated cell death in castration-resistant prostate cancer PC-3 cells. <i>Biomedicine and Pharmacotherapy</i> , 2017, 96, 417-425.	5.6	20
58	The Cardenolide Glycoside Acovenoside A Affords Protective Activity in Doxorubicin-Induced Cardiotoxicity in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 358, 262-270.	2.5	18
59	Acetyl-lupeolic acid inhibits Akt signaling and induces apoptosis in chemoresistant prostate cancer cells <i>in vitro</i> and <i>in vivo</i> . <i>Oncotarget</i> , 2017, 8, 55147-55161.	1.8	17
60	Plasmin induces intercellular adhesion molecule 1 expression in human endothelial cells via nuclear factor- κ B/mitogen-activated protein kinases-dependent pathways. <i>Experimental Biology and Medicine</i> , 2013, 238, 176-186.	2.4	16
61	The Serine Protease Plasmin Triggers Expression of the CC-Chemokine Ligand 20 in Dendritic Cells via Akt/NF- κ B-Dependent Pathways. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-10.	3.0	15
62	A Novel Polyhalogenated Monoterpene Induces Cell Cycle Arrest and Apoptosis in Breast Cancer Cells. <i>Marine Drugs</i> , 2019, 17, 437.	4.6	15
63	High-Contrast Magnetic Resonance Imaging and Efficient Delivery of an Albumin Nanotheranostic in Triple-Negative Breast Cancer Xenografts. <i>Advanced Therapeutics</i> , 2019, 2, 1900084.	3.2	15
64	A Naturally Derived Carrier for Photodynamic Treatment of Squamous Cell Carcinoma: In Vitro and In Vivo Models. <i>Pharmaceutics</i> , 2020, 12, 494.	4.5	13
65	Synthesis and evaluation of antitumor activity of 9-methoxy-1H-benzo[f]chromene derivatives. <i>Bioorganic Chemistry</i> , 2021, 116, 105402.	4.1	12
66	Synthesis of β -Enaminonitrile-Linked 8-Methoxy-1H-Benzo[f]Chromene Moieties and Analysis of Their Antitumor Mechanisms. <i>Frontiers in Chemistry</i> , 2021, 9, 759148.	3.6	11
67	Complementary medicine in Germany: a multi-centre cross-sectional survey on the usage by and the needs of patients hospitalized in university medical centers. <i>BMC Complementary Medicine and Therapies</i> , 2021, 21, 285.	2.7	11
68	Ring-Substituted 1-Hydroxynaphthalene-2-Carboxanilides Inhibit Proliferation and Trigger Mitochondria-Mediated Apoptosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3416.	4.1	10
69	Serum Amyloid A1 Induces Classically Activated Macrophages: A Role for Enhanced Fibril Formation. <i>Frontiers in Immunology</i> , 2021, 12, 691155.	4.8	10
70	Cell-to-cell transfer of SAA1 protein in a cell culture model of systemic AA amyloidosis. <i>Scientific Reports</i> , 2017, 7, 45683.	3.3	8
71	Ciglitazone inhibits plasmin-induced proinflammatory monocyte activation via modulation of p38 MAP kinase activity. <i>Thrombosis and Haemostasis</i> , 2002, 88, 274-81.	3.4	7
72	The phloroglucinol calcitrinone A, a novel mitochondria-targeting agent, induces cell death in breast cancer cells. <i>Food and Chemical Toxicology</i> , 2022, 162, 112896.	3.6	7

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73	Yeast two-hybrid screening of proteins interacting with plasmin receptor subunit: C-terminal fragment of annexin A2. <i>Acta Pharmacologica Sinica</i> , 2011, 32, 1411-1418.	6.1	6
74	Response to Letter Regarding Article, "Anti-inflammatory and Antiatherogenic Effects of the Inflammasome NLRP3 Inhibitor Arglabin in ApoE2.Ki Mice Fed a High-Fat Diet." <i>Circulation</i> , 2015, 132, e250-1.	1.6	5
75	Comparative Study on Hyaluronic Acid Binding to Murine SAA1.1 and SAA2.2. <i>ACS Omega</i> , 2019, 4, 13388-13399.	3.5	5
76	Synthesis of novel feruloyl dipeptides with proapoptotic potential against different cancer cell lines. <i>Bioorganic Chemistry</i> , 2020, 97, 103678.	4.1	5
77	Identification of Oleanolic Acid as Allosteric Agonist of Integrin $\alpha_5\beta_1$ by Combination of In Silico Modeling and In Vitro Analysis. <i>Frontiers in Pharmacology</i> , 2021, 12, 702529.	3.5	5
78	Thermal Destruction on the Nanoscale: Cell Membrane Hyperthermia with Functionalized Magnetic Nanoparticles. , 2010, , .		4
79	Estimation of half-life periods in nonlinear data with fractional polynomials. <i>Statistical Methods in Medical Research</i> , 2016, 25, 1791-1803.	1.5	3
80	Boswellic Acid Composition of Frankincense Dietary Supplements and Correlation to Cytotoxic Efficacy against Treatment-Resistant Triple Negative Breast Cancer Cells. <i>FASEB Journal</i> , 2019, 33, 816.5.	0.5	3
81	The SC cell line as an in vitro model of human monocytes. <i>Journal of Leukocyte Biology</i> , 2022, 112, 659-668.	3.3	3
82	Amino-functionalized polystyrene nanoparticles activate the NLRP3 inflammasome in human macrophages. <i>FASEB Journal</i> , 2013, 27, 575.6.	0.5	2
83	Gold Nanoparticles with Selective Antileukemic Activity In Vitro and In Vivo Target Mitochondrial Respiration. <i>Advanced Therapeutics</i> , 2019, 2, 1800149.	3.2	1
84	11-Keto-Boswellic Acid, a Novel Triterpenoid from <i>Boswellia</i> spp., with Cytotoxic Efficacy against Treatment-Resistant Triple Negative Breast Cancer Cell Lines. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
85	Plasmin as a proinflammatory cell activator. , 2012, 92, 509.		1
86	Amino-functionalized nanoparticles inhibit mTOR and induce cell cycle arrest and apoptosis in leukemia cells. <i>FASEB Journal</i> , 2013, 27, 575.7.	0.5	1
87	Phytochemical Composition of Commiphora Oleogum Resins and Their Cytotoxicity against Skin Cancer Cells. <i>Molecules</i> , 2022, 27, 3903.	3.8	1
88	Data on cytotoxic activity of an <i>Artemisia annua</i> herbal preparation and validation of the quantification method for active ingredient analysis. <i>Data in Brief</i> , 2019, 27, 104635.	1.0	0
89	The serine protease plasmin triggers proinflammatory gene induction in human macrophages " characterization of signaling pathways. <i>FASEB Journal</i> , 2007, 21, A278.	0.5	0
90	Mature dendritic cells express functional thrombin receptors triggering chemotaxis and CCL18/PARC chemokine induction. <i>FASEB Journal</i> , 2008, 22, 607.2.	0.5	0

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91	Plasmin is a chemoattractant for immature dendritic cells acting through Akt2-dependent mechanisms. FASEB Journal, 2009, 23, 671.2.	0.5	0
92	A role for c-Jun N-terminal kinases in apoptosis triggered in human macrophages by carboxydextran-coated superparamagnetic iron oxide nanoparticles. FASEB Journal, 2010, 24, 520.3.	0.5	0
93	Differential uptake of functionalized polystyrene nanoparticles by human macrophages and monocytic cells. FASEB Journal, 2012, 26, 580.9.	0.5	0
94	Modeling receptor-mediated uptake of polymer-functionalized iron oxide nanoparticles by macrophages. FASEB Journal, 2012, 26, 773.4.	0.5	0
95	Static high-gradient magnetic fields affect the functionality of monocytic cells (1010.5). FASEB Journal, 2014, 28, 1010.5.	0.5	0
96	Differential Effects of Nanoparticle Surface-Functionalization on the Polarization Profiles of M1 and M2 Macrophages. FASEB Journal, 2015, 29, 716.9.	0.5	0
97	The Chick Chorioallantoic Membrane (CAM) as a Multi-Purpose Preclinical Model in Oncology. FASEB Journal, 2018, 32, 565.11.	0.5	0
98	Constituents of Artemisia annua Dietary Supplements Induce ROS Elevation, ERK Activation, and Apoptosis in Treatment-Resistant Triple Negative Human Breast Cancer Cells. FASEB Journal, 2019, 33, 816.6.	0.5	0
99	Natural Sesquiterpene Lactones Induce Apoptotic Cell Death in Prostate Cancer Cells In Vitro and In Vivo. FASEB Journal, 2019, 33, 816.16.	0.5	0
100	Engineered Nanoparticles as Potential Therapeutics for Acute Myeloid Leukemia. FASEB Journal, 2022, 36, .	0.5	0