

# Oleg Lunov

## List of Publications by Year in descending order

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80  
papers

3,939  
citations

126907

33  
h-index

118850

62  
g-index

82  
all docs

82  
docs citations

82  
times ranked

7187  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Interleukin 21-Induced Granzyme B-Expressing B Cells Infiltrate Tumors and Regulate T Cells. <i>Cancer Research</i> , 2013, 73, 2468-2479.	0.9	277
3	Amino-Functionalized Polystyrene Nanoparticles Activate the NLRP3 Inflammasome in Human Macrophages. <i>ACS Nano</i> , 2011, 5, 9648-9657.	14.6	211
4	Plasmin as a proinflammatory cell activator. <i>Journal of Leukocyte Biology</i> , 2012, 92, 509-519.	3.3	175
5	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
6	Granzyme B produced by human plasmacytoid dendritic cells suppresses T-cell expansion. <i>Blood</i> , 2010, 115, 1156-1165.	1.4	150
7	Modeling receptor-mediated endocytosis of polymer-functionalized iron oxide nanoparticles by human macrophages. <i>Biomaterials</i> , 2011, 32, 547-555.	11.4	147
8	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
9	How a High-Gradient Magnetic Field Could Affect Cell Life. <i>Scientific Reports</i> , 2016, 6, 37407.	3.3	140
10	Peptide nanofibrils boost retroviral gene transfer and provide a rapid means for concentrating viruses. <i>Nature Nanotechnology</i> , 2013, 8, 130-136.	31.5	125
11	The interplay between biological and physical scenarios of bacterial death induced by non-thermal plasma. <i>Biomaterials</i> , 2016, 82, 71-83.	11.4	124
12	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
13	Non-thermal air plasma promotes the healing of acute skin wounds in rats. <i>Scientific Reports</i> , 2017, 7, 45183.	3.3	90
14	An effective strategy of magnetic stem cell delivery for spinal cord injury therapy. <i>Nanoscale</i> , 2015, 7, 3954-3958.	5.6	89
15	Human B cells differentiate into granzyme B-secreting cytotoxic B lymphocytes upon incomplete T-cell help. <i>Immunology and Cell Biology</i> , 2012, 90, 457-467.	2.3	82
16	Targeting NF- $\kappa$ 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
17	The Bispecific SDF1-GPVI Fusion Protein Preserves Myocardial Function After Transient Ischemia in Mice. <i>Circulation</i> , 2012, 125, 685-696.	1.6	73
18	Extracellular Matrix Hydrogel Derived from Human Umbilical Cord as a Scaffold for Neural Tissue Repair and Its Comparison with Extracellular Matrix from Porcine Tissues. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 333-345.	2.1	73

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19	Analyzing the mechanisms of iron oxide nanoparticles interactions with cells: A road from failure to success in clinical applications. <i>Journal of Controlled Release</i> , 2020, 328, 59-77.	9.9	72
20	Advanced preclinical models for evaluation of drug-induced liver injury – consensus statement by the European Drug-Induced Liver Injury Network [PRO-EURO-DILI-NET]. <i>Journal of Hepatology</i> , 2021, 75, 935-959.	3.7	66
21	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
22	Cell death induced by ozone and various non-thermal plasmas: therapeutic perspectives and limitations. <i>Scientific Reports</i> , 2014, 4, 7129.	3.3	62
23	Gremlin-1 Is an Inhibitor of Macrophage Migration Inhibitory Factor and Attenuates Atherosclerotic Plaque Growth in ApoE <sup>-/-</sup> Mice. <i>Journal of Biological Chemistry</i> , 2013, 288, 31635-31645.	3.4	57
24	CD5 <sup>+</sup> B cells from individuals with systemic lupus erythematosus express granzyme B. <i>European Journal of Immunology</i> , 2010, 40, 2060-2069.	2.9	51
25	Liver Organoids: Recent Developments, Limitations and Potential. <i>Frontiers in Medicine</i> , 2021, 8, 574047.	2.6	50
26	Effects of high-gradient magnetic fields on living cell machinery. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 493003.	2.8	49
27	Nanomechanics of magnetically driven cellular endocytosis. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	41
28	Remote Actuation of Apoptosis in Liver Cancer Cells via Magneto-Mechanical Modulation of Iron Oxide Nanoparticles. <i>Cancers</i> , 2019, 11, 1873.	3.7	40
29	Nanoparticle core stability and surface functionalization drive the mTOR signaling pathway in hepatocellular cell lines. <i>Scientific Reports</i> , 2017, 7, 16049.	3.3	38
30	Non-thermal plasma mills bacteria: Scanning electron microscopy observations. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	36
31	Chemically different non-thermal plasmas target distinct cell death pathways. <i>Scientific Reports</i> , 2017, 7, 600.	3.3	36
32	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
33	Targeting the mTOR Signaling Pathway Utilizing Nanoparticles: A Critical Overview. <i>Cancers</i> , 2019, 11, 82.	3.7	34
34	Non-Thermal Plasma, as a New Physicochemical Source, to Induce Redox Imbalance and Subsequent Cell Death in Liver Cancer Cell Lines. <i>Cellular Physiology and Biochemistry</i> , 2019, 52, 119-140.	1.6	33
35	Down-regulation of adipogenesis of mesenchymal stem cells by oscillating high-gradient magnetic fields and mechanical vibration. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	31
36	Truncated thioredoxin (Trx <sup>80</sup> ) promotes pro-inflammatory macrophages of the M1 phenotype and enhances atherosclerosis. <i>Journal of Cellular Physiology</i> , 2013, 228, 1577-1583.	4.1	29

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37	Light-induced modulation of the mitochondrial respiratory chain activity: possibilities and limitations. Cellular and Molecular Life Sciences, 2020, 77, 2815-2838.	5.4	29
38	Surface plasmon resonance analysis of nuclear factor- $\kappa$ B protein interactions with the sesquiterpene lactone helenalin. Analytical Biochemistry, 2010, 401, 30-37.	2.4	27
39	Multifunctional Fe <sub>3</sub> O <sub>4</sub> -Au Nanoparticles for the MRI Diagnosis and Potential Treatment of Liver Cancer. Nanomaterials, 2020, 10, 1646.	4.1	27
40	Iron Oxide Nanoparticle-Induced Autophagic Flux Is Regulated by Interplay between p53-mTOR Axis and Bcl-2 Signaling in Hepatic Cells. Cells, 2020, 9, 1015.	4.1	25
41	Manipulating the mitochondria activity in human hepatic cell line Huh7 by low-power laser irradiation. Biomedical Optics Express, 2018, 9, 1283.	2.9	21
42	Protein Corona Inhibits Endosomal Escape of Functionalized DNA Nanostructures in Living Cells. ACS Applied Materials & Interfaces, 2021, 13, 46375-46390.	8.0	20
43	The use of pulsed magnetic fields to increase the uptake of iron oxide nanoparticles by living cells. Applied Physics Letters, 2017, 111, .	3.3	19
44	Progressive lysosomal membrane permeabilization induced by iron oxide nanoparticles drives hepatic cell autophagy and apoptosis. Nano Convergence, 2020, 7, 17.	12.1	19
45	Modulation of collective cell behaviour by geometrical constraints. Integrative Biology (United Kingdom), 2020, 12, 1201017.	1.3	17
46	Critical Analysis of Non-Thermal Plasma-Driven Modulation of Immune Cells from Clinical Perspective. International Journal of Molecular Sciences, 2020, 21, 6226.	4.1	17
47	A Critical Review on Selected External Physical Cues and Modulation of Cell Behavior: Magnetic Nanoparticles, Non-thermal Plasma and Lasers. Journal of Functional Biomaterials, 2019, 10, 2.	4.4	16
48	Towards the understanding of non-thermal air plasma action: effects on bacteria and fibroblasts. RSC Advances, 2016, 6, 25286-25292.	3.6	13
49	Modulation of Living Cell Behavior with Ultra-low Fouling Polymer Brush Interfaces. Macromolecular Bioscience, 2020, 20, e1900351.	4.1	13
50	Antiviral Vaccines License T Cell Responses by Suppressing Granzyme B Levels in Human Plasmacytoid Dendritic Cells. Journal of Immunology, 2013, 191, 1144-1153.	0.8	11
51	The interactions between DNA nanostructures and cells: A critical overview from a cell biology perspective. Acta Biomaterialia, 2022, 146, 10-22.	8.3	10
52	Preliminary Study of Ge-DLC Nanocomposite Biomaterials Prepared by Laser Codeposition. Nanomaterials, 2019, 9, 451.	4.1	9
53	Ferromagnetic glass-coated microwires for cell manipulation. Journal of Magnetism and Magnetic Materials, 2020, 512, 166991.	2.3	8
54	Protective role of Gremlin-1 in myocardial function. European Journal of Clinical Investigation, 2021, 51, e13539.	3.4	8

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55	Magnetic Heating by Tunable Arrays of Nanoparticles in Cancer Therapy. <i>Acta Physica Polonica A</i> , 2009, 115, 413-417.	0.5	8
56	Model for Hyperthermia with Arrays of Magnetic Nanoparticles: Spatial and Time Temperature Distributions in Tumor. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 690-695.	0.9	6
57	Control of oxidative stress in Jurkat cells as a model of leukemia treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 523, 167623.	2.3	6
58	Hepatic Tumor Cell Morphology Plasticity under Physical Constraints in 3D Cultures Driven by YAP/mTOR Axis. <i>Pharmaceuticals</i> , 2020, 13, 430.	3.8	5
59	Expression of Interferons Lambda 3 and 4 Induces Identical Response in Human Liver Cell Lines Depending Exclusively on Canonical Signaling. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2560.	4.1	5
60	A model for magnetic bead microrheometry. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 311, 162-165.	2.3	4
61	Thermal Destruction on the Nanoscale: Cell Membrane Hyperthermia with Functionalized Magnetic Nanoparticles. , 2010, , .		4
62	Regulation of NADPH Oxidase-Mediated Superoxide Production by Acetylation and Deacetylation. <i>Frontiers in Physiology</i> , 2021, 12, 693702.	2.8	2
63	Amino-functionalized polystyrene nanoparticles activate the NLRP3 inflammasome in human macrophages. <i>FASEB Journal</i> , 2013, 27, 575.6.	0.5	2
64	Plasma will. <i>British Journal of Dermatology</i> , 2016, 174, 486-487.	1.5	1
65	Amino-functionalized nanoparticles as a platform for mTOR activity modulation in hepatocellular carcinoma Huh7 cell line. <i>Journal of Hepatology</i> , 2017, 66, S645-S646.	3.7	1
66	Plasmin as a proinflammatory cell activator. , 2012, 92, 509.		1
67	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
68	Laser irradiation induces mitochondrial dysfunction in hepatic cells. , 2019, , .		1
69	Magnetic control of living cell machinery. , 2015, , .		0
70	Living cells response to laser light and low-temperature plasma. , 2016, , .		0
71	Control of Hepatic Cells Growth by Topologically Modulated Substrates. <i>Journal of Hepatology</i> , 2016, 64, S348-S349.	3.7	0
72	Granzyme B Produced by Human Plasmacytoid Dendritic Cells Suppresses T Cell Expansion.. <i>Blood</i> , 2009, 114, 2674-2674.	1.4	0

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73	CD40 Ligand Determines Whether Interleukin 21 Induces Differentiation of Human B Cells Into Plasma Cells or Into Granzyme B-Secreting Cytotoxic Cells.. Blood, 2009, 114, 2675-2675.	1.4	0
74	Interleukin 21 can induce granzyme B-secreting cytotoxic B lymphocytes. FASEB Journal, 2010, 24, lb506.	0.5	0
75	Incompletely activated CD4+ T cells induce granzyme B+ regulatory B cells in an interleukin 21-dependent manner. FASEB Journal, 2010, 24, lb507.	0.5	0
76	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
77	Incompletely Activated CD4+ T Cells Induce Granzyme B+ Regulatory B Cells In An Interleukin 21-Dependent Manner. Blood, 2010, 116, 3905-3905.	1.4	0
78	Differential uptake of functionalized polystyrene nanoparticles by human macrophages and monocytic cells. FASEB Journal, 2012, 26, 580.9.	0.5	0
79	Modeling receptor-mediated uptake of polymer-functionalized iron oxide nanoparticles by macrophages. FASEB Journal, 2012, 26, 773.4.	0.5	0
80	Interleukin-21-Induced Granzyme B-Expressing B Lymphocytes Infiltrate Tumors and Regulate T Cells. Blood, 2012, 120, 3278-3278.	1.4	0