

# Oleg Lunov

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

3,939  
citations

145106

33  
h-index

134545

62  
g-index

82  
all docs

82  
docs citations

82  
times ranked

7953  
citing authors

#	ARTICLE	IF	CITATIONS
1	The interactions between DNA nanostructures and cells: A critical overview from a cell biology perspective. <i>Acta Biomaterialia</i> , 2022, 146, 10-22.	4.1	10
2	Control of oxidative stress in Jurkat cells as a model of leukemia treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 523, 167623.	1.0	6
3	Protective role of Gremlin in myocardial function. <i>European Journal of Clinical Investigation</i> , 2021, 51, e13539.	1.7	8
4	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.	1.8	5
5	Liver Organoids: Recent Developments, Limitations and Potential. <i>Frontiers in Medicine</i> , 2021, 8, 574047.	1.2	50
6	Regulation of NADPH Oxidase-Mediated Superoxide Production by Acetylation and Deacetylation. <i>Frontiers in Physiology</i> , 2021, 12, 693702.	1.3	2
7	Protein Corona Inhibits Endosomal Escape of Functionalized DNA Nanostructures in Living Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 46375-46390.	4.0	20
8	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.	1.8	66
9	Light-induced modulation of the mitochondrial respiratory chain activity: possibilities and limitations. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 2815-2838.	2.4	29
10	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.	4.8	72
11	Hepatic Tumor Cell Morphology Plasticity under Physical Constraints in 3D Cultures Driven by YAP-mTOR Axis. <i>Pharmaceuticals</i> , 2020, 13, 430.	1.7	5
12	Critical Analysis of Non-Thermal Plasma-Driven Modulation of Immune Cells from Clinical Perspective. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6226.	1.8	17
13	Multifunctional Fe <sub>3</sub> O <sub>4</sub> -Au Nanoparticles for the MRI Diagnosis and Potential Treatment of Liver Cancer. <i>Nanomaterials</i> , 2020, 10, 1646.	1.9	27
14	Ferromagnetic glass-coated microwires for cell manipulation. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 512, 166991.	1.0	8
15	Modulation of Living Cell Behavior with Ultra-Low Fouling Polymer Brush Interfaces. <i>Macromolecular Bioscience</i> , 2020, 20, e1900351.	2.1	13
16	Iron Oxide Nanoparticle-Induced Autophagic Flux Is Regulated by Interplay between p53-mTOR Axis and Bcl-2 Signaling in Hepatic Cells. <i>Cells</i> , 2020, 9, 1015.	1.8	25
17	Progressive lysosomal membrane permeabilization induced by iron oxide nanoparticles drives hepatic cell autophagy and apoptosis. <i>Nano Convergence</i> , 2020, 7, 17.	6.3	19
18	Preliminary Study of Ge-DLC Nanocomposite Biomaterials Prepared by Laser Codeposition. <i>Nanomaterials</i> , 2019, 9, 451.	1.9	9

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19	Remote Actuation of Apoptosis in Liver Cancer Cells via Magneto-Mechanical Modulation of Iron Oxide Nanoparticles. <i>Cancers</i> , 2019, 11, 1873.	1.7	40
20	A Critical Review on Selected External Physical Cues and Modulation of Cell Behavior: Magnetic Nanoparticles, Non-thermal Plasma and Lasers. <i>Journal of Functional Biomaterials</i> , 2019, 10, 2.	1.8	16
21	Targeting the mTOR Signaling Pathway Utilizing Nanoparticles: A Critical Overview. <i>Cancers</i> , 2019, 11, 82.	1.7	34
22	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.	1.1	33
23	Laser irradiation induces mitochondrial dysfunction in hepatic cells. , 2019, , .		1
24	Manipulating the mitochondria activity in human hepatic cell line Huh7 by low-power laser irradiation. <i>Biomedical Optics Express</i> , 2018, 9, 1283.	1.5	21
25	Chemically different non-thermal plasmas target distinct cell death pathways. <i>Scientific Reports</i> , 2017, 7, 600.	1.6	36
26	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.	1.1	73
27	Non-thermal air plasma promotes the healing of acute skin wounds in rats. <i>Scientific Reports</i> , 2017, 7, 45183.	1.6	90
28	Nanoparticle core stability and surface functionalization drive the mTOR signaling pathway in hepatocellular cell lines. <i>Scientific Reports</i> , 2017, 7, 16049.	1.6	38
29	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.	1.8	1
30	The use of pulsed magnetic fields to increase the uptake of iron oxide nanoparticles by living cells. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	19
31	Plasma willâ€¦. <i>British Journal of Dermatology</i> , 2016, 174, 486-487.	1.4	1
32	How a High-Gradient Magnetic Field Could Affect Cell Life. <i>Scientific Reports</i> , 2016, 6, 37407.	1.6	140
33	Living cells response to laser light and low-temperature plasma. , 2016, , .		0
34	Modulation of collective cell behaviour by geometrical constraints. <i>Integrative Biology (United Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14</i>	0.6	17
35	Control of Hepatic Cells Growth by Topologically Modulated Substrates. <i>Journal of Hepatology</i> , 2016, 64, S348-S349.	1.8	0
36	Effects of high-gradient magnetic fields on living cell machinery. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 493003.	1.3	49

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37	Towards the understanding of non-thermal air plasma action: effects on bacteria and fibroblasts. RSC Advances, 2016, 6, 25286-25292.	1.7	13
38	The interplay between biological and physical scenarios of bacterial death induced by non-thermal plasma. Biomaterials, 2016, 82, 71-83.	5.7	124
39	An effective strategy of magnetic stem cell delivery for spinal cord injury therapy. Nanoscale, 2015, 7, 3954-3958.	2.8	89
40	Magnetic control of living cell machinery. , 2015, , .		0
41	Non-thermal plasma mills bacteria: Scanning electron microscopy observations. Applied Physics Letters, 2015, 106, .	1.5	36
42	Down-regulation of adipogenesis of mesenchymal stem cells by oscillating high-gradient magnetic fields and mechanical vibration. Applied Physics Letters, 2014, 105, .	1.5	31
43	Cell death induced by ozone and various non-thermal plasmas: therapeutic perspectives and limitations. Scientific Reports, 2014, 4, 7129.	1.6	62
44	Gremlin-1 Is an Inhibitor of Macrophage Migration Inhibitory Factor and Attenuates Atherosclerotic Plaque Growth in ApoE <sup>-/-</sup> Mice. Journal of Biological Chemistry, 2013, 288, 31635-31645.	1.6	57
45	Peptide nanofibrils boost retroviral gene transfer and provide a rapid means for concentrating viruses. Nature Nanotechnology, 2013, 8, 130-136.	15.6	125
46	Truncated thioredoxin (Trx <sup>80</sup> ) promotes pro-inflammatory macrophages of the M1 phenotype and enhances atherosclerosis. Journal of Cellular Physiology, 2013, 228, 1577-1583.	2.0	29
47	Interleukin 21-Induced Granzyme B-Expressing B Cells Infiltrate Tumors and Regulate T Cells. Cancer Research, 2013, 73, 2468-2479.	0.4	277
48	Antiviral Vaccines License T Cell Responses by Suppressing Granzyme B Levels in Human Plasmacytoid Dendritic Cells. Journal of Immunology, 2013, 191, 1144-1153.	0.4	11
49	A Novel Semisynthetic Inhibitor of the FRB Domain of Mammalian Target of Rapamycin Blocks Proliferation and Triggers Apoptosis in Chemoresistant Prostate Cancer Cells. Molecular Pharmacology, 2013, 83, 531-541.	1.0	35
50	Amino-functionalized nanoparticles inhibit mTOR and induce cell cycle arrest and apoptosis in leukemia cells. FASEB Journal, 2013, 27, 575.7.	0.2	1
51	Amino-functionalized polystyrene nanoparticles activate the NLRP3 inflammasome in human macrophages. FASEB Journal, 2013, 27, 575.6.	0.2	2
52	Plasmin as a proinflammatory cell activator. Journal of Leukocyte Biology, 2012, 92, 509-519.	1.5	175
53	The Bispecific SDF1-GPVI Fusion Protein Preserves Myocardial Function After Transient Ischemia in Mice. Circulation, 2012, 125, 685-696.	1.6	73
54	Thioredoxin-1 Promotes Anti-Inflammatory Macrophages of the M2 Phenotype and Antagonizes Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1445-1452.	1.1	93

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55	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.	1.0	82
56	Plasmin as a proinflammatory cell activator. , 2012, 92, 509.		1
57	Differential uptake of functionalized polystyrene nanoparticles by human macrophages and monocytic cells. <i>FASEB Journal</i> , 2012, 26, 580.9.	0.2	0
58	Modeling receptor-mediated uptake of polymer-functionalized iron oxide nanoparticles by macrophages. <i>FASEB Journal</i> , 2012, 26, 773.4.	0.2	0
59	Interleukin-21-Induced Granzyme B-Expressing B Lymphocytes Infiltrate Tumors and Regulate T Cells. <i>Blood</i> , 2012, 120, 3278-3278.	0.6	0
60	Differential Uptake of Functionalized Polystyrene Nanoparticles by Human Macrophages and a Monocytic Cell Line. <i>ACS Nano</i> , 2011, 5, 1657-1669.	7.3	516
61	Amino-Functionalized Polystyrene Nanoparticles Activate the NLRP3 Inflammasome in Human Macrophages. <i>ACS Nano</i> , 2011, 5, 9648-9657.	7.3	211
62	Nanomechanics of magnetically driven cellular endocytosis. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	41
63	Modeling receptor-mediated endocytosis of polymer-functionalized iron oxide nanoparticles by human macrophages. <i>Biomaterials</i> , 2011, 32, 547-555.	5.7	147
64	Granzyme B produced by human plasmacytoid dendritic cells suppresses T-cell expansion. <i>Blood</i> , 2010, 115, 1156-1165.	0.6	150
65	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.	5.7	140
66	CD5 <sup>+</sup> B cells from individuals with systemic lupus erythematosus express granzyme B. <i>European Journal of Immunology</i> , 2010, 40, 2060-2069.	1.6	51
67	Surface plasmon resonance analysis of nuclear factor- $\kappa$ B protein interactions with the sesquiterpene lactone helenalin. <i>Analytical Biochemistry</i> , 2010, 401, 30-37.	1.1	27
68	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.	5.7	173
69	Thermal Destruction on the Nanoscale: Cell Membrane Hyperthermia with Functionalized Magnetic Nanoparticles. , 2010, , .		4
70	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
71	Tirucallic Acids Are Novel Pleckstrin Homology Domain-Dependent Akt Inhibitors Inducing Apoptosis in Prostate Cancer Cells. <i>Molecular Pharmacology</i> , 2010, 77, 378-387.	1.0	65
72	Interleukin 21 can induce granzyme B-secreting cytotoxic B lymphocytes. <i>FASEB Journal</i> , 2010, 24, lb506.	0.2	0

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73	Incompletely activated CD4+ T cells induce granzyme B+ regulatory B cells in an interleukin 21-dependent manner. FASEB Journal, 2010, 24, lb507.	0.2	0
74	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.	0.2	0
75	Incompletely Activated CD4+ T Cells Induce Granzyme B+ Regulatory B Cells In An Interleukin 21-Dependent Manner. Blood, 2010, 116, 3905-3905.	0.6	0
76	Targeting NF- $\kappa$ B with a Natural Triterpenoid Alleviates Skin Inflammation in a Mouse Model of Psoriasis. Journal of Immunology, 2009, 183, 4755-4763.	0.4	80
77	Magnetic Heating by Tunable Arrays of Nanoparticles in Cancer Therapy. Acta Physica Polonica A, 2009, 115, 413-417.	0.2	8
78	Granzyme B Produced by Human Plasmacytoid Dendritic Cells Suppresses T Cell Expansion.. Blood, 2009, 114, 2674-2674.	0.6	0
79	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.	0.6	0
80	A model for magnetic bead microrheometry. Journal of Magnetism and Magnetic Materials, 2007, 311, 162-165.	1.0	4