

# Yuri Volkov

## List of Publications by Year in descending order

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98  
papers

5,954  
citations

76196

40  
h-index

74018

75  
g-index

100  
all docs

100  
docs citations

100  
times ranked

9866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotubes degraded by neutrophil myeloperoxidase induce less pulmonary inflammation. <i>Nature Nanotechnology</i> , 2010, 5, 354-359.	15.6	698
2	Magnetic Nanoparticles in Cancer Theranostics. <i>Theranostics</i> , 2015, 5, 1249-1263.	4.6	373
3	Length-Dependent Retention of Carbon Nanotubes in the Pleural Space of Mice Initiates Sustained Inflammation and Progressive Fibrosis on the Parietal Pleura. <i>American Journal of Pathology</i> , 2011, 178, 2587-2600.	1.9	278
4	Efficient treatment of breast cancer xenografts with multifunctionalized iron oxide nanoparticles combining magnetic hyperthermia and anti-cancer drug delivery. <i>Breast Cancer Research</i> , 2015, 17, 66.	2.2	231
5	Nonfunctionalized Nanocrystals Can Exploit a Cell's Active Transport Machinery Delivering Them to Specific Nuclear and Cytoplasmic Compartments. <i>Nano Letters</i> , 2007, 7, 3452-3461.	4.5	219
6	Magnetic core-shell nanoparticles for drug delivery by nebulization. <i>Journal of Nanobiotechnology</i> , 2013, 11, 1.	4.2	172
7	High-Content Screening as a Universal Tool for Fingerprinting of Cytotoxicity of Nanoparticles. <i>ACS Nano</i> , 2008, 2, 928-938.	7.3	165
8	Impaired Clearance and Enhanced Pulmonary Inflammatory/Fibrotic Response to Carbon Nanotubes in Myeloperoxidase-Deficient Mice. <i>PLoS ONE</i> , 2012, 7, e30923.	1.1	156
9	Optimisation of the synthesis and modification of CdTe quantum dots for enhanced live cell imaging. <i>Journal of Materials Chemistry</i> , 2006, 16, 2896.	6.7	154
10	Crucial importance of PKC- $\zeta$ (I) in LFA-1-mediated locomotion of activated T cells. <i>Nature Immunology</i> , 2001, 2, 508-514.	7.0	147
11	Silver nanoparticles as a medical device in healthcare settings: a five-step approach for candidate screening of coating agents. <i>Royal Society Open Science</i> , 2018, 5, 171113.	1.1	110
12	"Jelly Dots": Synthesis and Cytotoxicity Studies of CdTe Quantum Dot-Gelatin Nanocomposites. <i>Small</i> , 2007, 3, 1152-1156.	5.2	99
13	Characterization of interaction of magnetic nanoparticles with breast cancer cells. <i>Journal of Nanobiotechnology</i> , 2015, 13, 16.	4.2	99
14	Decrease in hepatic CD56+ T cells and $\gamma\delta$ 24+ natural killer T cells in chronic hepatitis C viral infection. <i>Journal of Hepatology</i> , 2002, 37, 101-108.	1.8	92
15	STAT3-Stathmin Interactions Control Microtubule Dynamics in Migrating T-cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 12349-12362.	1.6	90
16	Highly Sensitive Single Domain Antibody-Quantum Dot Conjugates for Detection of HER2 Biomarker in Lung and Breast Cancer Cells. <i>ACS Nano</i> , 2014, 8, 5682-5695.	7.3	89
17	Quantum dots in nanomedicine: recent trends, advances and unresolved issues. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 419-427.	1.0	87
18	Targeted polyethylene glycol gold nanoparticles for the treatment of pancreatic cancer: from synthesis to proof-of-concept in vitro studies. <i>International Journal of Nanomedicine</i> , 2016, 11, 791.	3.3	86

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19	Nanoparticle-based drug delivery: case studies for cancer and cardiovascular applications. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 389-404.	2.4	84
20	Multifactorial determinants that govern nanoparticle uptake by human endothelial cells under flow. <i>International Journal of Nanomedicine</i> , 2012, 7, 2943.	3.3	78
21	CdTe Nanoparticles Display Tropism to Core Histones and Histone-Rich Cell Organelles. <i>Small</i> , 2008, 4, 2006-2015.	5.2	77
22	High content analysis of the biocompatibility of nickel nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1341-1345.	1.0	75
23	Activation of stress-related signalling pathway in human cells upon SiO <sub>2</sub> nanoparticles exposure as an early indicator of cytotoxicity. <i>Journal of Nanobiotechnology</i> , 2011, 9, 29.	4.2	73
24	Citrullination of proteins: a common post-translational modification pathway induced by different nanoparticles <i>in vitro</i> and <i>in vivo</i> . <i>Nanomedicine</i> , 2012, 7, 1181-1195.	1.7	72
25	Characterization of protein C receptor expression in monocytes. <i>British Journal of Haematology</i> , 2001, 115, 408-414.	1.2	70
26	Magnetic-fluorescent nanocomposites for biomedical multitasking. <i>Chemical Communications</i> , 2006, , 4474.	2.2	68
27	Probing Cell-Type-Specific Intracellular Nanoscale Barriers Using Size-Tuned Quantum Dots. <i>Small</i> , 2009, 5, 2581-2588.	5.2	68
28	Length-dependent pathogenic effects of nickel nanowires in the lungs and the peritoneal cavity. <i>Nanotoxicology</i> , 2012, 6, 899-911.	1.6	66
29	Cytotoxicity evaluation of nanoclays in human epithelial cell line A549 using high content screening and real-time impedance analysis. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	64
30	In-Situ Observation of Nanowire Growth from Luminescent CdTe Nanocrystals in a Phosphate Buffer Solution. <i>ChemPhysChem</i> , 2004, 5, 1600-1602.	1.0	62
31	Ursodeoxycholic acid inhibits interleukin beta 1 and deoxycholic acid-induced activation of NF- $\kappa$ B and AP-1 in human colon cancer cells. <i>International Journal of Cancer</i> , 2006, 118, 532-539.	2.3	61
32	The evolution of chemotaxis assays from static models to physiologically relevant platforms. <i>Integrative Biology (United Kingdom)</i> , 2009, 1, 170-181.	0.6	61
33	Screening the Cytotoxicity of Single-Walled Carbon Nanotubes Using Novel 3D Tissue-Mimetic Models. <i>ACS Nano</i> , 2011, 5, 9278-9290.	7.3	61
34	Autophagy induction by silver nanowires: A new aspect in the biocompatibility assessment of nanocomposite thin films. <i>Toxicology and Applied Pharmacology</i> , 2012, 264, 451-461.	1.3	61
35	Industrial grade 2D molybdenum disulphide (MoS <sub>2</sub> ): an <i>in vitro</i> exploration of the impact on cellular uptake, cytotoxicity, and inflammation. <i>2D Materials</i> , 2017, 4, 025065.	2.0	57
36	The "Multiple Hormone Deficiency" Theory of Aging: Is Human Senescence Caused Mainly by Multiple Hormone Deficiencies?. <i>Annals of the New York Academy of Sciences</i> , 2005, 1057, 448-465.	1.8	55

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37	Graphene toxicity as a double-edged sword of risks and exploitable opportunities: a critical analysis of the most recent trends and developments. <i>2D Materials</i> , 2017, 4, 022001.	2.0	52
38	CdTe Nanowire Networks: Fast Self-Assembly in Solution, Internal Structure, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18927-18931.	1.5	47
39	Nanotechnology in pulmonary medicine. <i>Current Opinion in Pharmacology</i> , 2021, 56, 85-92.	1.7	46
40	Determination of Spiropyran Cytotoxicity by High Content Screening and Analysis for Safe Application in Bionanosensing. <i>Chemical Research in Toxicology</i> , 2010, 23, 1459-1466.	1.7	42
41	A new microtubule-targeting compound PBOX-15 inhibits T-cell migration via post-translational modifications of tubulin. <i>Journal of Molecular Medicine</i> , 2008, 86, 457-469.	1.7	41
42	STAT3 knockdown by siRNA induces apoptosis in human cutaneous T-cell lymphoma line Hut78 via downregulation of Bcl-xL. <i>Cellular and Molecular Biology Letters</i> , 2010, 15, 342-55.	2.7	41
43	A safe-by-design approach to the development of gold nanoboxes as carriers for internalization into cancer cells. <i>Biomaterials</i> , 2014, 35, 2543-2557.	5.7	41
44	The Scaffolding Protein CG-NAP/AKAP450 Is a Critical Integrating Component of the LFA-1-Induced Signaling Complex in Migratory T Cells. <i>Journal of Immunology</i> , 2005, 175, 7811-7818.	0.4	40
45	Cutting Edge: Protein Kinase C $\beta$ Expression Is Critical for Export of IL-2 from T Cells. <i>Journal of Immunology</i> , 2001, 167, 636-640.	0.4	37
46	CD44 cross-linking induces protein kinase C-regulated migration of human T lymphocytes. <i>International Immunology</i> , 2005, 17, 449-458.	1.8	36
47	Leukocyte Function-associated Antigen-1/Intercellular Adhesion Molecule-1 Interaction Induces a Novel Genetic Signature Resulting in T-cells Refractory to Transforming Growth Factor- $\beta$ Signaling. <i>Journal of Biological Chemistry</i> , 2012, 287, 27204-27216.	1.6	36
48	Integrin and CD3/TCR activation are regulated by the scaffold protein AKAP450. <i>Blood</i> , 2010, 115, 4174-4184.	0.6	34
49	Osmium(ii) polypyridyl polyarginine conjugate as a probe for live cell imaging; a comparison of uptake, localization and cytotoxicity with its ruthenium(ii) analogue. <i>Dalton Transactions</i> , 2015, 44, 14323-14332.	1.6	34
50	Pharmacokinetics and bio-distribution of novel super paramagnetic iron oxide nanoparticles (<sc>SPIO</sc>s) in the anaesthetized pig. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2016, 43, 319-326.	0.9	34
51	Multilayered Cultures of NSCLC cells grown at the Air-Liquid Interface allow the efficacy testing of inhaled anti-cancer drugs. <i>Scientific Reports</i> , 2018, 8, 12920.	1.6	34
52	Cellular uptake and biocompatibility of bismuth ferrite harmonic advanced nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 815-824.	1.7	33
53	Comparative Flow Cytometric Analysis of Immunofunctionalized Nanowire and Nanoparticle Signatures. <i>Small</i> , 2010, 6, 247-255.	5.2	32
54	Nonlinear optical and magnetic properties of BiFeO <sub>3</sub> harmonic nanoparticles. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	32

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55	Synthesis, Characterisation, and Biological Studies of CdTe Quantum Dot-Naproxen Conjugates. <i>ChemMedChem</i> , 2007, 2, 183-186.	1.6	31
56	Emerging applications of fluorescent nanocrystals quantum dots for micrometastases detection. <i>Proteomics</i> , 2010, 10, 700-716.	1.3	31
57	Biodistribution and pharmacokinetic studies of SPION using particle electron paramagnetic resonance, MRI and ICP-MS. <i>Nanomedicine</i> , 2015, 10, 1751-1760.	1.7	31
58	The phenotype of target pancreatic cancer cells influences cell death by magnetic hyperthermia with nanoparticles carrying gemcitabine and the pseudo-peptide NucAnt. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 20, 101983.	1.7	30
59	Fluorescent immunoprecipitation analysis of cell surface proteins: A methodology compatible with mass-spectrometry. <i>Journal of Immunological Methods</i> , 2007, 319, 21-33.	0.6	29
60	Cadmium nanoparticles citrullinate cytokeratins within lung epithelial cells: cadmium as a potential cause of citrullination in chronic obstructive pulmonary disease. <i>International Journal of COPD</i> , 2018, Volume 13, 441-449.	0.9	29
61	Bile acid deoxycholate induces differential subcellular localisation of the PKC isoenzymes $\delta$ , $\mu$ and $\zeta$ in colonic epithelial cells in a sodium butyrate insensitive manner. <i>International Journal of Cancer</i> , 2005, 114, 887-895.	2.3	27
62	Multiparametric Toxicity Evaluation of SPIONs by High Content Screening Technique: Identification of Biocompatible Multifunctional Nanoparticles for Nanomedicine. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 377-382.	1.2	27
63	Proinflammatory Effect of Carbon-Based Nanomaterials: In Vitro Study on Stimulation of Inflammasome NLRP3 via Destabilisation of Lysosomes. <i>Nanomaterials</i> , 2020, 10, 418.	1.9	27
64	Stimulus-induced phosphorylation of PKC $\delta$ at the C-terminal hydrophobic-motif in human T lymphocytes. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 619-630.	1.0	26
65	Culturing substrates influence the morphological, mechanical and biochemical features of lung adenocarcinoma cells cultured in 2D or 3D. <i>Tissue and Cell</i> , 2018, 50, 15-30.	1.0	25
66	Ursodeoxycholic acid inhibits translocation of protein kinase C in human colonic cancer cell lines. <i>European Journal of Cancer</i> , 2005, 41, 2160-2169.	1.3	24
67	Porphyrin-magnetite nanoconjugates for biological imaging. <i>Journal of Nanobiotechnology</i> , 2011, 9, 13.	4.2	24
68	The Hepatitis C Envelope 2 Protein Inhibits LFA-1-Transduced Protein Kinase C Signaling for T-Lymphocyte Migration. <i>Gastroenterology</i> , 2006, 130, 482-492.	0.6	23
69	Lab-in-a-drop: controlled self-assembly of CdSe/ZnS quantum dots and quantum rods into polycrystalline nanostructures with desired optical properties. <i>Nanotechnology</i> , 2007, 18, 185602.	1.3	23
70	Silver nanowires as prospective carriers for drug delivery in cancer treatment: an in vitro biocompatibility study on lung adenocarcinoma cells and fibroblasts. <i>European Journal of Nanomedicine</i> , 2013, 5, .	0.6	23
71	Aerosolized drug-loaded nanoparticles targeting migration inhibitory factors inhibit <i>Pseudomonas aeruginosa</i> -induced inflammation and biofilm formation. <i>Nanomedicine</i> , 2020, 15, 2933-2953.	1.7	21
72	Detection of ErbB2: nanotechnological solutions for clinical diagnostics. <i>RSC Advances</i> , 2014, 4, 3422-3442.	1.7	18

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73	Preparation from a revisited wet chemical route of phase-pure, monocrystalline and SHG-efficient BiFeO <sub>3</sub> nanoparticles for harmonic bio-imaging. <i>Scientific Reports</i> , 2018, 8, 10473.	1.6	18
74	Analysis of dynamic tyrosine phosphoproteome in LFA-1 triggered migrating cells. <i>Journal of Cellular Physiology</i> , 2011, 226, 1489-1498.	2.0	17
75	Citrullination as early-stage indicator of cell response to Single-Walled Carbon Nanotubes. <i>Scientific Reports</i> , 2013, 3, 1124.	1.6	17
76	Induction of protein citrullination and auto-antibodies production in murine exposed to nickel nanomaterials. <i>Scientific Reports</i> , 2018, 8, 679.	1.6	17
77	Towards the Identification of an In Vitro Tool for Assessing the Biological Behavior of Aerosol Supplied Nanomaterials. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 563.	1.2	17
78	CdTe quantum dots induce activation of human platelets: implications for nanoparticle hemocompatibility. <i>International Journal of Nanomedicine</i> , 2015, 10, 2723.	3.3	15
79	Fabrication and characterization of multimodal magnetic - fluorescent polystyrene nanowires as selective cell imaging probes. <i>Journal of Materials Chemistry</i> , 2011, 21, 14219.	6.7	14
80	Hepatitis C virus targets the T cell secretory machinery as a mechanism of immune evasion. <i>Hepatology</i> , 2011, 53, 1846-1853.	3.6	14
81	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. <i>RSC Advances</i> , 2016, 6, 65299-65310.	1.7	13
82	Cross-linking of LFA-1 induces secretion of macrophage inflammatory protein (MIP)-1 $\alpha$ and MIP-1 $\beta$ with consequent directed migration of activated lymphocytes. <i>European Journal of Immunology</i> , 2000, 30, 3006-3011.	1.6	12
83	The curious case of how mimicking physiological complexity in in vitro models of the human respiratory system influences the inflammatory responses. A preliminary study focused on gold nanoparticles. <i>Journal of Interdisciplinary Nanomedicine</i> , 2017, 2, 110-130.	3.6	12
84	Heparin conjugated quantum dots for in vitro imaging applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1853-1861.	1.7	11
85	Direct and indirect antibody-induced TX-100 resistance of cell surface antigens. <i>Immunology Letters</i> , 2003, 85, 287-295.	1.1	10
86	The anticoagulant properties of cadmium telluride quantum dots. <i>Journal of Interdisciplinary Nanomedicine</i> , 2018, 3, 16-28.	3.6	9
87	Comparing the Effects of Intracellular and Extracellular Magnetic Hyperthermia on the Viability of BxPC-3 Cells. <i>Nanomaterials</i> , 2020, 10, 593.	1.9	9
88	Loss of PTEN expression does not contribute to PDK-1 activity and PKC activation-loop phosphorylation in Jurkat leukaemic T cells. <i>Cellular Signalling</i> , 2007, 19, 2444-2457.	1.7	8
89	The use of Cellomics to study enterocyte cytoskeletal proteins in coeliac disease patients. <i>Open Life Sciences</i> , 2008, 3, 258-267.	0.6	5
90	Hierarchical SOMs: Segmentation of Cell-Migration Images. <i>Lecture Notes in Computer Science</i> , 2007, , 938-946.	1.0	5

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91	A Cross-Modal System for Cell Migration Image Annotation and Retrieval. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	4
92	A complex morphofunctional approach for zinc toxicity evaluation in rats. Heliyon, 2020, 6, e03768.	1.4	3
93	Preparation and biological investigation of luminescent water soluble CdTe nanoparticles. , 2005, 5824, 129.		1
94	NANOINTERACT: A rational approach to the interaction between nanoscale materials and living matter?. Journal of Physics: Conference Series, 2009, 170, 012040.	0.3	1
95	Solution-grown CdTe nanowires: Self-assembly, optical properties and strong temperature dependent electronic coupling. , 2010, , .		1
96	Harmonic Nanoparticles for Regenerative Research. Journal of Visualized Experiments, 2014, , .	0.2	1
97	3D volume segmentation and reconstruction. Supervised image classification and automated quantification of superparamagnetic iron oxide nanoparticles in histology slides for safety assessment. Nanotoxicology, 2021, 15, 1151-1167.	1.6	1
98	Fabrication and characterisation of photonic nanowires. , 2008, , .		0