

Yuri Volkov

List of Publications by Year in descending order

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98
papers

5,954
citations

76326

40
h-index

74163

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.	31.5	698
2	Magnetic Nanoparticles in Cancer Theranostics. <i>Theranostics</i> , 2015, 5, 1249-1263.	10.0	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.	3.8	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.	5.0	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.	9.1	219
6	Magnetic core-shell nanoparticles for drug delivery by nebulization. <i>Journal of Nanobiotechnology</i> , 2013, 11, 1.	9.1	172
7	High-Content Screening as a Universal Tool for Fingerprinting of Cytotoxicity of Nanoparticles. <i>ACS Nano</i> , 2008, 2, 928-938.	14.6	165
8	Impaired Clearance and Enhanced Pulmonary Inflammatory/Fibrotic Response to Carbon Nanotubes in Myeloperoxidase-Deficient Mice. <i>PLoS ONE</i> , 2012, 7, e30923.	2.5	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- δ (I) in LFA-1-mediated locomotion of activated T cells. <i>Nature Immunology</i> , 2001, 2, 508-514.	14.5	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.	2.4	110
12	"Jelly Dots": Synthesis and Cytotoxicity Studies of CdTe Quantum Dot-Gelatin Nanocomposites. <i>Small</i> , 2007, 3, 1152-1156.	10.0	99
13	Characterization of interaction of magnetic nanoparticles with breast cancer cells. <i>Journal of Nanobiotechnology</i> , 2015, 13, 16.	9.1	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.	3.7	92
15	STAT3-Stathmin Interactions Control Microtubule Dynamics in Migrating T-cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 12349-12362.	3.4	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.	14.6	89
17	Quantum dots in nanomedicine: recent trends, advances and unresolved issues. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 419-427.	2.1	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.	6.7	86

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19	Nanoparticle-based drug delivery: case studies for cancer and cardiovascular applications. Cellular and Molecular Life Sciences, 2012, 69, 389-404.	5.4	84
20	Multifactorial determinants that govern nanoparticle uptake by human endothelial cells under flow. International Journal of Nanomedicine, 2012, 7, 2943.	6.7	78
21	CdTe Nanoparticles Display Tropism to Core Histones and Histone-Rich Cell Organelles. Small, 2008, 4, 2006-2015.	10.0	77
22	High content analysis of the biocompatibility of nickel nanowires. Journal of Magnetism and Magnetic Materials, 2009, 321, 1341-1345.	2.3	75
23	Activation of stress-related signalling pathway in human cells upon SiO ₂ nanoparticles exposure as an early indicator of cytotoxicity. Journal of Nanobiotechnology, 2011, 9, 29.	9.1	73
24	Citrullination of proteins: a common post-translational modification pathway induced by different nanoparticles <i>in vitro</i> and <i>in vivo</i> . Nanomedicine, 2012, 7, 1181-1195.	3.3	72
25	Characterization of protein C receptor expression in monocytes. British Journal of Haematology, 2001, 115, 408-414.	2.5	70
26	Magnetic-fluorescent nanocomposites for biomedical multitasking. Chemical Communications, 2006, , 4474.	4.1	68
27	Probing Cell-Type-Specific Intracellular Nanoscale Barriers Using Size-Tuned Quantum Dots. Small, 2009, 5, 2581-2588.	10.0	68
28	Length-dependent pathogenic effects of nickel nanowires in the lungs and the peritoneal cavity. Nanotoxicology, 2012, 6, 899-911.	3.0	66
29	Cytotoxicity evaluation of nanoclays in human epithelial cell line A549 using high content screening and real-time impedance analysis. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	64
30	In-Situ Observation of Nanowire Growth from Luminescent CdTe Nanocrystals in a Phosphate Buffer Solution. ChemPhysChem, 2004, 5, 1600-1602.	2.1	62
31	Ursodeoxycholic acid inhibits interleukin beta 1 and deoxycholic acid-induced activation of NF- κ B and AP-1 in human colon cancer cells. International Journal of Cancer, 2006, 118, 532-539.	5.1	61
32	The evolution of chemotaxis assays from static models to physiologically relevant platforms. Integrative Biology (United Kingdom), 2009, 1, 170-181.	1.3	61
33	Screening the Cytotoxicity of Single-Walled Carbon Nanotubes Using Novel 3D Tissue-Mimetic Models. ACS Nano, 2011, 5, 9278-9290.	14.6	61
34	Autophagy induction by silver nanowires: A new aspect in the biocompatibility assessment of nanocomposite thin films. Toxicology and Applied Pharmacology, 2012, 264, 451-461.	2.8	61
35	Industrial grade 2D molybdenum disulphide (MoS ₂): an <i>in vitro</i> exploration of the impact on cellular uptake, cytotoxicity, and inflammation. 2D Materials, 2017, 4, 025065.	4.4	57
36	The "Multiple Hormone Deficiency" Theory of Aging: Is Human Senescence Caused Mainly by Multiple Hormone Deficiencies?. Annals of the New York Academy of Sciences, 2005, 1057, 448-465.	3.8	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.	4.4	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.	3.1	47
39	Nanotechnology in pulmonary medicine. <i>Current Opinion in Pharmacology</i> , 2021, 56, 85-92.	3.5	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.	3.3	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.	3.9	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.	7.0	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.	11.4	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.	0.8	40
45	Cutting Edge: Protein Kinase C β Expression Is Critical for Export of IL-2 from T Cells. <i>Journal of Immunology</i> , 2001, 167, 636-640.	0.8	37
46	CD44 cross-linking induces protein kinase C-regulated migration of human T lymphocytes. <i>International Immunology</i> , 2005, 17, 449-458.	4.0	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- β Signaling. <i>Journal of Biological Chemistry</i> , 2012, 287, 27204-27216.	3.4	36
48	Integrin and CD3/TCR activation are regulated by the scaffold protein AKAP450. <i>Blood</i> , 2010, 115, 4174-4184.	1.4	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.	3.3	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.	1.9	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.	3.3	34
52	Cellular uptake and biocompatibility of bismuth ferrite harmonic advanced nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 815-824.	3.3	33
53	Comparative Flow Cytometric Analysis of Immunofunctionalized Nanowire and Nanoparticle Signatures. <i>Small</i> , 2010, 6, 247-255.	10.0	32
54	Nonlinear optical and magnetic properties of BiFeO ₃ harmonic nanoparticles. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	32

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55	Synthesis, Characterisation, and Biological Studies of CdTe Quantum Dot-Naproxen Conjugates. <i>ChemMedChem</i> , 2007, 2, 183-186.	3.2	31
56	Emerging applications of fluorescent nanocrystals quantum dots for micrometastases detection. <i>Proteomics</i> , 2010, 10, 700-716.	2.2	31
57	Biodistribution and pharmacokinetic studies of SPION using particle electron paramagnetic resonance, MRI and ICP-MS. <i>Nanomedicine</i> , 2015, 10, 1751-1760.	3.3	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.	3.3	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.	1.4	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.	2.3	29
61	Bile acid deoxycholate induces differential subcellular localisation of the PKC isoenzymes δ , μ and ζ in colonic epithelial cells in a sodium butyrate insensitive manner. <i>International Journal of Cancer</i> , 2005, 114, 887-895.	5.1	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.	2.1	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.	4.1	27
64	Stimulus-induced phosphorylation of PKC δ at the C-terminal hydrophobic-motif in human T lymphocytes. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 619-630.	2.1	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.	2.2	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.	2.8	24
67	Porphyrin-magnetite nanoconjugates for biological imaging. <i>Journal of Nanobiotechnology</i> , 2011, 9, 13.	9.1	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.	1.3	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.	2.6	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.	3.3	21
72	Detection of ErbB2: nanotechnological solutions for clinical diagnostics. <i>RSC Advances</i> , 2014, 4, 3422-3442.	3.6	18

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73	Preparation from a revisited wet chemical route of phase-pure, monocrystalline and SHG-efficient BiFeO ₃ nanoparticles for harmonic bio-imaging. <i>Scientific Reports</i> , 2018, 8, 10473.	3.3	18
74	Analysis of dynamic tyrosine phosphoproteome in LFA-1 triggered migrating cells. <i>Journal of Cellular Physiology</i> , 2011, 226, 1489-1498.	4.1	17
75	Citrullination as early-stage indicator of cell response to Single-Walled Carbon Nanotubes. <i>Scientific Reports</i> , 2013, 3, 1124.	3.3	17
76	Induction of protein citrullination and auto-antibodies production in murine exposed to nickel nanomaterials. <i>Scientific Reports</i> , 2018, 8, 679.	3.3	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.	2.6	17
78	CdTe quantum dots induce activation of human platelets: implications for nanoparticle hemocompatibility. <i>International Journal of Nanomedicine</i> , 2015, 10, 2723.	6.7	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.	7.3	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.	3.6	13
82	Cross-linking of LFA-1 induces secretion of macrophage inflammatory protein (MIP)-1 α and MIP-1 β with consequent directed migration of activated lymphocytes. <i>European Journal of Immunology</i> , 2000, 30, 3006-3011.	2.9	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.	3.3	11
85	Direct and indirect antibody-induced TX-100 resistance of cell surface antigens. <i>Immunology Letters</i> , 2003, 85, 287-295.	2.5	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.	4.1	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.	3.6	8
89	The use of Cellomics to study enterocyte cytoskeletal proteins in coeliac disease patients. <i>Open Life Sciences</i> , 2008, 3, 258-267.	1.4	5
90	Hierarchical SOMs: Segmentation of Cell-Migration Images. <i>Lecture Notes in Computer Science</i> , 2007, , 938-946.	1.3	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.	3.2	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.	0.4	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, , .	0.3	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.	3.0	1
98	Fabrication and characterisation of photonic nanowires. , 2008, , .		0