

# Lucie Kubinova

## List of Publications by Year in descending order

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79  
papers

1,696  
citations

279798

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330143

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docs citations

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times ranked

2009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Immune Changes in Early Stages of Inflammation and Carcinogenesis Correlate with the Collagen Scaffold Changes of the Colon Mucosa. <i>Cancers</i> , 2021, 13, 2463.	3.7	3
2	Nanosecond Pulsed Electric Field Lab-on-a-Chip Integrated in Super-Resolution Microscope for Cytoskeleton Imaging. <i>Advanced Materials Technologies</i> , 2020, 5, 1900669.	5.8	11
3	Microtubule Cytoskeleton Remodeling by Nanosecond Pulsed Electric Fields. <i>Advanced Biology</i> , 2020, 4, e2000070.	3.0	13
4	Reversible and Irreversible Modulation of Tubulin Self-Assembly by Intense Nanosecond Pulsed Electric Fields. <i>Advanced Materials</i> , 2019, 31, 1903636.	21.0	29
5	3D analysis of capillary network in skeletal muscle of obese insulin-resistant mice. <i>Histochemistry and Cell Biology</i> , 2019, 152, 323-331.	1.7	10
6	UNBIASED ESTIMATION OF NORWAY SPRUCE (PICEA ABIES L. KARST.) CHLOROPLAST STRUCTURE: HETEROGENEITY WITHIN NEEDLE MESOPHYLL UNDER DIFFERENT IRRADIANCE AND [CO <sub>2</sub> ]. <i>Image Analysis and Stereology</i> , 2019, 38, 83.	0.9	2
7	Norway spruce needle size and cross section shape variability induced by irradiance on a macro- and microscale and CO <sub>2</sub> concentration. <i>Trees - Structure and Function</i> , 2018, 32, 231-244.	1.9	12
8	Capillary Network Morphometry of Pig Soleus Muscle Significantly Changes in 24 Hours After Death. <i>Journal of Histochemistry and Cytochemistry</i> , 2018, 66, 23-31.	2.5	3
9	STEREOLOGY, AN UNBIASED METHODOLOGICAL APPROACH TO STUDY PLANT ANATOMY AND CYTOLOGY: PAST, PRESENT AND FUTURE. <i>Image Analysis and Stereology</i> , 2017, 36, 187.	0.9	6
10	Image-Based Modeling of Blood Flow and Oxygen Transfer in Feto-Placental Capillaries. <i>PLoS ONE</i> , 2016, 11, e0165369.	2.5	35
11	Confocal stereology: an efficient tool for measurement of microscopic structures. <i>Cell and Tissue Research</i> , 2015, 360, 13-28.	2.9	16
12	Computerized Reconstruction of Pulpal Blood Vessels Examined under Confocal Microscope. <i>Balkan Journal of Dental Medicine</i> , 2015, 19, 43-49.	0.2	0
13	Unbiased estimation of chloroplast number in mesophyll cells: advantage of a genuine three-dimensional approach. <i>Journal of Experimental Botany</i> , 2014, 65, 609-620.	4.8	21
14	Tracing Tubular Objects in 3D Confocal Images Using Haptic Device. <i>Microscopy and Microanalysis</i> , 2014, 20, 822-823.	0.4	0
15	THE CAPILLARY PATTERN IN HUMAN MASSETER MUSCLE DURING AGEING. <i>Image Analysis and Stereology</i> , 2013, 32, 135.	0.9	1
16	Blood Capillary Length Estimation from Three-Dimensional Microscopic Data by Image Analysis and Stereology. <i>Microscopy and Microanalysis</i> , 2013, 19, 898-906.	0.4	6
17	Matching of irreversibly deformed images in microscopy based on piecewise monotone subgradient optimization using parallel processing. , 2012, , .		0
18	The impact of long-term CO <sub>2</sub> enrichment on sun and shade needles of Norway spruce ( <i>Picea abies</i> ): Photosynthetic performance, needle anatomy and phenolics accumulation. <i>Plant Science</i> , 2012, 188-189, 60-70.	3.6	15

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19	Human Masseter Muscle Fibers From the Elderly Express Less Neonatal Myosin Than Those of Young Adults. <i>Anatomical Record</i> , 2012, 295, 1364-1372.	1.4	5
20	Ecology of Testate Amoebae in the Komo <sup>Å</sup> many Ponds in the Vltava Basin. <i>Microbial Ecology</i> , 2012, 64, 117-130.	2.8	8
21	The branching pattern of villous capillaries and structural changes of placental terminal villi in type 1 diabetes mellitus. <i>Placenta</i> , 2012, 33, 343-351.	1.5	51
22	Compensation of inhomogeneous fluorescence signal distribution in 2D images acquired by confocal microscopy. <i>Microscopy Research and Technique</i> , 2011, 74, 831-838.	2.2	7
23	A novel method for evaluation of capillarity in human skeletal muscles from confocal 3D images. <i>Microvascular Research</i> , 2011, 81, 231-238.	2.5	22
24	Visualization of Reinke <sup>Å</sup> crystals in normal and cryptorchid testis. <i>Histochemistry and Cell Biology</i> , 2011, 135, 215-228.	1.7	16
25	Nonrigid Registration of CLSM Images of Physical Sections with Discontinuous Deformations. <i>Microscopy and Microanalysis</i> , 2011, 17, 923-936.	0.4	3
26	Flo11p, drug efflux pumps, and the extracellular matrix cooperate to form biofilm yeast colonies. <i>Journal of Cell Biology</i> , 2011, 194, 679-687.	5.2	83
27	Reinke <sup>Å</sup> 's Crystals in Perivascular and Peritubular Leydig Cells. <i>Croatica Chemica Acta</i> , 2011, 84, 159-167.	0.4	2
28	Characterization of the Capillary Network in Skeletal Muscles From 3D Data. <i>Physiological Research</i> , 2011, 60, 1-13.	0.9	34
29	Testate Amoebae Examined by Confocal and Two-Photon Microscopy: Implications for Taxonomy and Ecophysiology. <i>Microscopy and Microanalysis</i> , 2010, 16, 735-746.	0.4	10
30	Analysis and three-dimensional visualization of collagen in artificial scaffolds using nonlinear microscopy techniques. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	2.6	24
31	High-LET Radiation-Induced Response of Microvessels in the Hippocampus. <i>Radiation Research</i> , 2010, 173, 486-493.	1.5	55
32	The estimation error of skeletal muscle capillary supply is significantly reduced by 3D method. <i>Microvascular Research</i> , 2010, 79, 40-46.	2.5	23
33	VARIANCES OF LENGTH AND SURFACE AREA ESTIMATES BY SPATIAL GRIDS: PRELIMINARY STUDY. <i>Image Analysis and Stereology</i> , 2010, 29, 45.	0.9	6
34	Software for muscle fibre type classification and analysis. <i>European Journal of Histochemistry</i> , 2009, 53, 87-95.	1.5	16
35	3D Visualization and Measurement of Capillaries Supplying Metabolically Different Fiber Types in the Rat Extensor Digitorum Longus Muscle During Denervation and Reinnervation. <i>Journal of Histochemistry and Cytochemistry</i> , 2009, 57, 437-447.	2.5	24
36	Volume reconstruction of large tissue specimens from serial physical sections using confocal microscopy and correction of cutting deformations by elastic registration. <i>Microscopy Research and Technique</i> , 2009, 72, 110-119.	2.2	32

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37	Imaging of mouse experimental melanoma in vivo and ex vivo by combination of confocal and nonlinear microscopy. <i>Microscopy Research and Technique</i> , 2009, 72, 411-423.	2.2	15
38	Architecture of developing multicellular yeast colony: spatio-temporal expression of Ato1p ammonium exporter. <i>Environmental Microbiology</i> , 2009, 11, 1866-1877.	3.8	55
39	Advantages and pitfalls of using free-hand sections of frozen needles for three-dimensional analysis of mesophyll by stereology and confocal microscopy. <i>Journal of Microscopy</i> , 2008, 232, 56-63.	1.8	40
40	Three-dimensional Arrangement of the Capillary Bed and Its Relationship to Microrheology in the Terminal Villi of Normal Term Placenta. <i>Placenta</i> , 2008, 29, 892-897.	1.5	47
41	Novel efficient methods for measuring mesophyll anatomical characteristics from fresh thick sections using stereology and confocal microscopy: application on acid rain-treated Norway spruce needles. <i>Journal of Experimental Botany</i> , 2007, 58, 1451-1461.	4.8	23
42	Surface density and volume density measurements of chloroplast thylakoids in maize ( <i>Zea mays</i> L.) under chilling conditions. <i>Photosynthetica</i> , 2007, 45, 481-488.	1.7	7
43	Adaptation of muscle fibre types and capillary network to acute denervation and shortlasting reinnervation. <i>Cell and Tissue Research</i> , 2007, 330, 279-289.	2.9	14
44	Visualisation of human dental pulp vasculature by immunohistochemical and immunofluorescent detection of CD34: A comparative study. <i>Australian Endodontic Journal</i> , 2006, 32, 101-106.	1.5	10
45	Nerve injury affects the capillary supply in rat slow and fast muscles differently. <i>Cell and Tissue Research</i> , 2006, 323, 305-312.	2.9	19
46	Methods for compensation of the light attenuation with depth of images captured by a confocal microscope. <i>Microscopy Research and Technique</i> , 2006, 69, 624-635.	2.2	55
47	Three-dimensional reconstructions from non-deparaffinized tissue sections. <i>Anatomy and Embryology</i> , 2005, 210, 163-173.	1.5	14
48	Confocal microscopy of chloroplast morphology and ontogeny in three strains of <i>Dictyochloropsis</i> (Trebouxiophyceae, Chlorophyta). <i>Phycologia</i> , 2005, 44, 261-269.	1.4	12
49	Quantitative analysis of embryonic kidney impairment by confocal microscopy and stereology: effect of 1,2-dibromoethane in the chick mesonephros. <i>British Poultry Science</i> , 2005, 46, 661-667.	1.7	2
50	Stereological and Digital Methods for Estimating Geometrical Characteristics of Biological Structures Using Confocal Microscopy. , 2005, , 271-321.		6
51	CAPILLARY NETWORK IN SLOW AND FAST MUSCLES AND IN OXIDATIVE AND GLYCOLYTIC MUSCLE FIBRES. <i>Image Analysis and Stereology</i> , 2005, 24, 51.	0.9	8
52	A novel staining method for quantification and 3D visualisation of capillaries and muscle fibres. <i>European Journal of Histochemistry</i> , 2004, 48, 151.	1.5	21
53	Frequency of M-Cadherin-stained Satellite Cells Declines in Human Muscles During Aging. <i>Journal of Histochemistry and Cytochemistry</i> , 2004, 52, 179-185.	2.5	84
54	Improvement in volume estimation from confocal sections after image deconvolution. <i>Microscopy Research and Technique</i> , 2004, 64, 151-155.	2.2	23

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55	Three-dimensional computer reconstruction of large tissue volumes based on composing series of high-resolution confocal images by GlueMRC and LinkMRC software. <i>Microscopy Research and Technique</i> , 2003, 62, 415-422.	2.2	25
56	Stereology Techniques in Radiation Biology. <i>Radiation Research</i> , 2003, 160, 110-119.	1.5	9
57	Stereology Techniques Haveâ€”or Should Haveâ€”a Role in Preclinical Radiation Therapy. <i>Radiation Research</i> , 2003, 160, 120-123.	1.5	1
58	Quantification of Rat Retinal Growth and Vascular Population Changes after Single and Split Doses of Proton Irradiation: Translational Study Using Stereology Methods. <i>Radiation Research</i> , 2003, 160, 5-13.	1.5	20
59	Topological Properties and Spatial Organization of Villous Capillaries in Normal and Diabetic Placentas. <i>Journal of Vascular Research</i> , 2002, 39, 268-278.	1.4	96
60	Ultraviolet light-irradiated collagen III modulates expression of cytoskeletal and surface adhesion molecules in rat aortic smooth muscle cells in vitro. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2002, 440, 50-62.	2.8	13
61	IMPROVING METHODOLOGICAL STRATEGIES FOR SATELLITE CELLS COUNTING IN HUMAN MUSCLE DURING AGEING. <i>Image Analysis and Stereology</i> , 2002, 21, 7.	0.9	7
62	Confocal microscopy and stereology: Estimating volume, number, surface area and length by virtual test probes applied to three-dimensional images. <i>Microscopy Research and Technique</i> , 2001, 53, 425-435.	2.2	47
63	The Heterogeneity of Structural and Functional Photosynthetic Characteristics of Mesophyll Chloroplasts in Various Parts of Mature or Senescing Leaf Blade of Two Maize ( <i>Zea Mays</i> L.) Genotypes. <i>Photosynthetica</i> , 2001, 39, 497-506.	1.7	21
64	Three-dimensional study of the capillary supply of skeletal muscle fibres using confocal microscopy. <i>Journal of Muscle Research and Cell Motility</i> , 2001, 22, 217-227.	2.0	37
65	DISECTOR PROGRAM FOR UNBIASED ESTIMATION OF PARTICLE NUMBER, NUMERICAL DENSITY AND MEAN VOLUME. <i>Image Analysis and Stereology</i> , 2001, 20, 119.	0.9	23
66	Comparison of several digital and stereological methods for estimating surface area and volume of cells studied by confocal microscopy. , 1999, 36, 85-95.		35
67	Advantages of stereological methods in biomedicine. Efficiently obtaining unbiased estimates of geometrical characteristics for 3-D structures. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1998, 17, 110-115.	0.8	3
68	Functional heterogeneity of Thy-1 membrane microdomains in rat basophilic leukemia cells. <i>European Journal of Immunology</i> , 1998, 28, 1847-1858.	2.9	32
69	Spatial arrangement of fetal placental capillaries in terminal villi: a study using confocal microscopy. <i>Anatomy and Embryology</i> , 1998, 197, 263-272.	1.5	30
70	Estimating surface area by the isotropic fakir method from thick slices cut in an arbitrary direction. <i>Journal of Microscopy</i> , 1998, 191, 201-211.	1.8	57
71	Non-destructive stereological method for estimating the length of rigid root systems. <i>Biologia Plantarum</i> , 1997, 39, 311-316.	1.9	2
72	Correlation of function and structure in developing rat distal colon. <i>Cell and Tissue Research</i> , 1997, 288, 95-99.	2.9	7

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73	Application of Confocal Microscopy to 3-D Reconstruction and Morphometrical Analysis of Capillaries. , 1996, , 285-289.		0
74	Stereological methods based on point counting and unbiased counting frames for two-dimensional measurements in muscles: comparison with manual and image analysis methods. Journal of Muscle Research and Cell Motility, 1995, 16, 295-302.	2.0	25
75	Recent stereological methods for measuring leaf anatomical characteristics: estimation of the number and sizes of stomata and mesophyll cells. Journal of Experimental Botany, 1994, 45, 119-127.	4.8	49
76	Recent Stereological Methods for the Measurement of Leaf Anatomical Characteristics: Estimation of Volume Density, Volume and Surface Area. Journal of Experimental Botany, 1993, 44, 165-173.	4.8	35
77	Stomata and Mesophyll Characteristics of Barley Leaf as Affected by Light: Stereological Analysis. Journal of Experimental Botany, 1991, 42, 995-1001.	4.8	51
78	Quantitative Analysis of the Structure of Etiolated Barley Leaf Using Stereological Methods. Journal of Experimental Botany, 1991, 42, 1311-1314.	4.8	12
79	Time hierarchy in systems with general attractors. Mathematical Modelling, 1987, 8, 61-65.	0.2	0