

Ivan RaÅ¾ka

List of Publications by Year in descending order

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136
papers

5,085
citations

109321

35
h-index

98798

67
g-index

143
all docs

143
docs citations

143
times ranked

4853
citing authors

#	ARTICLE	IF	CITATIONS
1	The searching for agents for Alzheimer's disease treatment via the system of self-consistent models. Toxicology Mechanisms and Methods, 2022, , 1-9.	2.7	13
2	The SC-35 Splicing Factor Interacts with RNA Pol II and A-Type Lamin Depletion Weakens This Interaction. Cells, 2021, 10, 297.	4.1	2
3	The sequence of amino acids as the basis for the model of biological activity of peptides. Theoretical Chemistry Accounts, 2021, 140, 15.	1.4	5
4	Hypocalcaemic cardiomyopathy: a description of two cases and a literature review. ESC Heart Failure, 2020, 7, 1291-1301.	3.1	16
5	Alternative isoforms of KDM2A and KDM2B lysine demethylases negatively regulate canonical Wnt signaling. PLoS ONE, 2020, 15, e0236612.	2.5	6
6	The Index of Ideality of Correlation (IIC): model for sweetness. Monatshefte für Chemie, 2019, 150, 617-623.	1.8	5
7	Rifampicin Nanoformulation Enhances Treatment of Tuberculosis in Zebrafish. Biomacromolecules, 2019, 20, 1798-1815.	5.4	30
8	The study of the index of ideality of correlation as a new criterion of predictive potential of QSPR/QSAR-models. Science of the Total Environment, 2019, 659, 1387-1394.	8.0	43
9	Interaction of spin-labeled HPMA-based nanoparticles with human blood plasma proteins – the introduction of protein-corona-free polymer nanomedicine. Nanoscale, 2018, 10, 6194-6204.	5.6	37
10	Discontinuous transcription. Nucleus, 2018, 9, 149-160.	2.2	7
11	Poly(ethylene oxide monomethyl ether)-poly(propylene succinate) Nanoparticles: Synthesis and Characterization, Enzymatic and Cellular Degradation, Micellar Solubilization of Paclitaxel, and in Vitro and in Vivo Evaluation. Biomacromolecules, 2018, 19, 2443-2458.	5.4	11
12	KDM2A/B lysine demethylases and their alternative isoforms in development and disease. Nucleus, 2018, 9, 431-441.	2.2	19
13	Depletion of A-type lamins and Lap2± reduces 53BP1 accumulation at UV-induced DNA lesions and Lap2± protein is responsible for compactness of irradiated chromatin. Journal of Cellular Biochemistry, 2018, 119, 8146-8162.	2.6	10
14	Peripheral re-localization of constitutive heterochromatin advances its replication timing and impairs maintenance of silencing marks. Nucleic Acids Research, 2018, 46, 6112-6128.	14.5	22
15	Endosomal vacuoles of the prepupal salivary glands of Drosophila play an essential role in the metabolic reallocation of iron. Development Growth and Differentiation, 2018, 60, 411-430.	1.5	8
16	Alternative intronic promoters in development and disease. Protoplasma, 2017, 254, 1201-1206.	2.1	14
17	PCNA is recruited to irradiated chromatin in late S-phase and is most pronounced in G2 phase of the cell cycle. Protoplasma, 2017, 254, 2035-2043.	2.1	15
18	A demethylation deficient isoform of the lysine demethylase KDM2A interacts with pericentromeric heterochromatin in an HP1a-dependent manner. Nucleus, 2017, 8, 563-572.	2.2	9

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19	System with embedded drug release and nanoparticle degradation sensor showing efficient rifampicin delivery into macrophages. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 307-315.	3.3	38
20	Prevalence and Risk Factors of Osteoporosis in Postmenopausal Women with Type 2 Diabetes Mellitus. <i>Central European Journal of Public Health</i> , 2017, 25, 3-10.	1.1	31
21	CORAL Software: Analysis of Impacts of Pharmaceutical Agents Upon Metabolism via the Optimal Descriptors. <i>Current Drug Metabolism</i> , 2017, 18, 500-510.	1.2	10
22	Localized Movement and Levels of 53BP1 Protein Are Changed by γ -irradiation in PML Deficient Cells. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 2583-2596.	2.6	7
23	Improved building up a model of toxicity towards <i>Pimephales promelas</i> by the Monte Carlo method. <i>Environmental Toxicology and Pharmacology</i> , 2016, 48, 278-285.	4.0	8
24	Reproduction of the FC/DFC units in nucleoli. <i>Nucleus</i> , 2016, 7, 203-215.	2.2	18
25	The N-terminal domain plays a crucial role in the structure of a full-length human mitochondrial Lon protease. <i>Scientific Reports</i> , 2016, 6, 33631.	3.3	31
26	Massive excretion of calcium oxalate from late prepupal salivary glands of <i>Drosophila melanogaster</i> demonstrates active nephridial-like anion transport. <i>Development Growth and Differentiation</i> , 2016, 58, 562-574.	1.5	6
27	Nucleolar DNA: the host and the guests. <i>Histochemistry and Cell Biology</i> , 2016, 145, 359-372.	1.7	27
28	High Prevalence of Hypovitaminosis D in Postmenopausal Women with Type 2 Diabetes Mellitus. <i>Prague Medical Report</i> , 2016, 117, 5-17.	0.8	10
29	Novel thermo-responsive double-hydrophilic and hydrophobic MPEO-b-PEtOx-b-PCL triblock terpolymers: Synthesis, characterization and self-assembly studies. <i>Polymer</i> , 2015, 59, 215-225.	3.8	13
30	Localized movement and morphology of UBF1-positive nucleolar regions are changed by γ -irradiation in G2 phase of the cell cycle. <i>Nucleus</i> , 2015, 6, 301-313.	2.2	9
31	Searching therapeutic agents for treatment of Alzheimer disease using the Monte Carlo method. <i>Computers in Biology and Medicine</i> , 2015, 64, 148-154.	7.0	30
32	Vacuole dynamics in the salivary glands of <i>Drosophila melanogaster</i> during prepupal development. <i>Development Growth and Differentiation</i> , 2015, 57, 74-96.	1.5	15
33	Apocrine Secretion in <i>Drosophila</i> Salivary Glands: Subcellular Origin, Dynamics, and Identification of Secretory Proteins. <i>PLoS ONE</i> , 2014, 9, e94383.	2.5	36
34	Ultrastructure of Cytoplasmic and Nuclear Inosine-5'-Monophosphate Dehydrogenase 2 α -Rods and Rings Inclusions. <i>Journal of Histochemistry and Cytochemistry</i> , 2014, 62, 739-750.	2.5	37
35	Separation of replication and transcription domains in nucleoli. <i>Journal of Structural Biology</i> , 2014, 188, 259-266.	2.8	39
36	HP1 β -dependent recruitment of UBF1 to irradiated chromatin occurs simultaneously with CPDs. <i>Epigenetics and Chromatin</i> , 2014, 7, 39.	3.9	18

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37	An unusual case of high hyperdiploid childhood ALL with cryptic BCR/ABL1 rearrangement. <i>Molecular Cytogenetics</i> , 2014, 7, 72.	0.9	4
38	Comprehension of drug toxicity: Software and databases. <i>Computers in Biology and Medicine</i> , 2014, 45, 20-25.	7.0	69
39	Gold Nanoparticles for High Resolution Imaging in Modern Immunocytochemistry. <i>Fundamental Biomedical Technologies</i> , 2014, , 189-206.	0.2	0
40	A simple Fourier filter for suppression of the missing wedge ray artefacts in single-axis electron tomographic reconstructions. <i>Journal of Structural Biology</i> , 2014, 186, 141-152.	2.8	17
41	Applications of biosynthesized metallic nanoparticles – A review. <i>Acta Biomaterialia</i> , 2014, 10, 4023-4042.	8.3	390
42	Dynamics of Polycomb chromatin domains under conditions of increased molecular crowding. <i>Biology of the Cell</i> , 2013, 105, 519-534.	2.0	4
43	Development of QSAR models for predicting anti-HIV-1 activity using the Monte Carlo method. <i>Open Chemistry</i> , 2013, 11, 371-380.	1.9	4
44	Duration of the first steps of the human rRNA processing. <i>Nucleus</i> , 2013, 4, 134-141.	2.2	37
45	Flexible structured illumination microscope with a programmable illumination array. <i>Optics Express</i> , 2012, 20, 24585.	3.4	61
46	QSAR modeling of endpoints for peptides which is based on representation of the molecular structure by a sequence of amino acids. <i>Structural Chemistry</i> , 2012, 23, 1891-1904.	2.0	29
47	Trajectories and nuclear arrangement of PML bodies are influenced by A-type lamin deficiency. <i>Biology of the Cell</i> , 2012, 104, 418-432.	2.0	29
48	Nucleologenesis in the <i>Caenorhabditis elegans</i> Embryo. <i>PLoS ONE</i> , 2012, 7, e40290.	2.5	24
49	Nuclear visions enhanced: chromatin structure, organization and dynamics. <i>EMBO Reports</i> , 2011, 12, 748-750.	4.5	0
50	Minimizing detection errors in single molecule localization microscopy. <i>Optics Express</i> , 2011, 19, 3226.	3.4	42
51	A change of developmental program induces the remodeling of the interchromatin domain during microspore embryogenesis in <i>Brassica napus</i> L.. <i>Journal of Plant Physiology</i> , 2011, 168, 746-757.	3.5	26
52	Replication timing of pseudo-NORs. <i>Journal of Structural Biology</i> , 2011, 173, 213-218.	2.8	3
53	Fine structure of the "PcG body" in human U-2 OS cells established by correlative light-electron microscopy. <i>Nucleus</i> , 2011, 2, 219-228.	2.2	23
54	Chromatin organization, structure and dynamics. <i>Nucleus</i> , 2011, 2, 331-331.	2.2	0

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55	Cytoskeletal proteins regulate chromatin access of BR-C transcription factor and Rpd3-Sin3A histone deacetylase complex in <i>Drosophila</i> salivary glands. <i>Nucleus</i> , 2011, 2, 489-499.	2.2	7
56	Structure and Epigenetics of Nucleoli in Comparison With Non-nucleolar Compartments. <i>Journal of Histochemistry and Cytochemistry</i> , 2010, 58, 391-403.	2.5	61
57	Importance of molecular cell biology investigations in human medicine in the story of the Hutchinson-Gilford progeria syndrome. <i>Interdisciplinary Toxicology</i> , 2010, 3, 89-93.	1.0	2
58	Exploring some of the physico-chemical properties of the LAMMER protein kinase DOA of <i>Drosophila</i> . <i>Fly</i> , 2009, 3, 130-142.	1.7	2
59	Organization of the amplified type I interferon gene cluster and associated chromosome regions in the interphase nucleus of human osteosarcoma cells. <i>Chromosome Research</i> , 2009, 17, 305-319.	2.2	3
60	Chromatin position in human HepG2 cells: Although being non-random, significantly changed in daughter cells. <i>Journal of Structural Biology</i> , 2009, 165, 107-117.	2.8	27
61	Organization of human replicon: Singles or zipping couples?. <i>Journal of Structural Biology</i> , 2009, 165, 204-213.	2.8	26
62	A new epigenetic marker: The replication-coupled, cell cycle-dependent, dual modification of the histone H4 tail. <i>Journal of Structural Biology</i> , 2009, 167, 76-82.	2.8	5
63	Ladder-like amplification of the type I interferon gene cluster in the human osteosarcoma cell line MG63. <i>Chromosome Research</i> , 2008, 16, 1177-1192.	2.2	3
64	Pontin is localized in nucleolar fibrillar centers. <i>Chromosoma</i> , 2008, 117, 487-497.	2.2	10
65	Searching for Active Ribosomal Genes. <i>Progress in Molecular and Subcellular Biology</i> , 2008, , 23-56.	1.6	5
66	Chromatin changes induced by lamin A/C deficiency and the histone deacetylase inhibitor trichostatin A. <i>European Journal of Cell Biology</i> , 2008, 87, 291-303.	3.6	72
67	Early markers of in vitro microspore reprogramming to embryogenesis in olive (<i>Olea europaea</i> L.). <i>Plant Science</i> , 2008, 174, 597-605.	3.6	45
68	Positioning of NORs and NOR-bearing chromosomes in relation to nucleoli. <i>Journal of Structural Biology</i> , 2007, 160, 49-56.	2.8	40
69	New Insights into Nucleolar Architecture and Activity. <i>International Review of Cytology</i> , 2006, 255, 177-235.	6.2	161
70	Structure and function of the nucleolus in the spotlight. <i>Current Opinion in Cell Biology</i> , 2006, 18, 325-334.	5.4	192
71	Potential Roles for Ubiquitin and the Proteasome during Ribosome Biogenesis. <i>Molecular and Cellular Biology</i> , 2006, 26, 5131-5145.	2.3	90
72	QSAR of the testosterone binding globulin affinity by means of correlation weighting of local invariants of the graph of atomic orbitals. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 6830-6835.	3.0	9

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73	Electron microscopy of DNA replication in 3-D: Evidence for similar-sized replication foci throughout S-phase. <i>Journal of Cellular Biochemistry</i> , 2005, 94, 126-138.	2.6	48
74	Spatio-temporal dynamics at rDNA foci: Global switching between DNA replication and transcription. <i>Journal of Cellular Biochemistry</i> , 2005, 94, 554-565.	2.6	31
75	Replication-coupled modulation of early replicating chromatin domains detected by anti-actin antibody. <i>Journal of Cellular Biochemistry</i> , 2005, 94, 899-916.	2.6	5
76	Dynamics of replication foci in early S phase as visualized by cross-correlation function. <i>Journal of Structural Biology</i> , 2005, 151, 61-68.	2.8	4
77	Formation of Nuclear Splicing Factor Compartments Is Independent of Lamins A/C. <i>Molecular Biology of the Cell</i> , 2004, 15, 4904-4910.	2.1	18
78	The effect of bromide on the ultrastructure of rat thyrocytes. <i>Annals of Anatomy</i> , 2004, 186, 209-216.	1.9	7
79	The nucleolus and transcription of ribosomal genes. <i>Biology of the Cell</i> , 2004, 96, 579-594.	2.0	118
80	Searching for active ribosomal genes. <i>Progress in Molecular and Subcellular Biology</i> , 2004, 35, 23-56.	1.6	3
81	Oldies but goldies: searching for Christmas trees within the nucleolar architecture. <i>Trends in Cell Biology</i> , 2003, 13, 517-525.	7.9	75
82	Overexpression of v-myb oncogene or c-myb proto-oncogene in insect cells: characterization of newly induced nucleolus-like structures accumulating myb protein. <i>International Journal of Molecular Medicine</i> , 2002, 9, 547.	4.0	0
83	Ribosomal genes in focus. <i>Journal of Cell Biology</i> , 2002, 157, 743-748.	5.2	132
84	Cyclin D α cdk6 complex is targeted by p21WAF in growth-arrested lymphoma cells. <i>Journal of Structural Biology</i> , 2002, 140, 49-56.	2.8	11
85	Temporal regulation of <i>Drosophila</i> salivary gland degeneration by the Broad-Complex transcription factors. <i>Journal of Structural Biology</i> , 2002, 140, 67-78.	2.8	11
86	Searching for active ribosomal genes in situ: light microscopy in light of the electron beam. <i>Journal of Structural Biology</i> , 2002, 140, 227-231.	2.8	9
87	CENP-C binds the alpha-satellite DNA in vivo at specific centromere domains. <i>Journal of Cell Science</i> , 2002, 115, 2317-2327.	2.0	67
88	CENP-C binds the alpha-satellite DNA in vivo at specific centromere domains. <i>Journal of Cell Science</i> , 2002, 115, 2317-27.	2.0	54
89	Non-isotopic mapping of ribosomal RNA synthesis and processing in the nucleolus. <i>Chromosoma</i> , 2001, 110, 460-470.	2.2	17
90	Prespliceosomal Assembly on Microinjected Precursor mRNA Takes Place in Nuclear Speckles. <i>Molecular Biology of the Cell</i> , 2001, 12, 393-406.	2.1	52

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91	The yeast Ura2 protein that catalyses the first two steps of pyrimidines biosynthesis accumulates not in the nucleus but in the cytoplasm, as shown by immunocytochemistry and Ura2-green fluorescent protein mapping. <i>Yeast</i> , 2000, 16, 1299-1312.	1.7	10
92	Pre-ribosomal RNA is processed in permeabilised cells at the site of transcription. <i>European Journal of Cell Biology</i> , 2000, 79, 202-207.	3.6	10
93	Nuclear pre-mRNA Compartmentalization: Trafficking of Released Transcripts to Splicing Factor Reservoirs. <i>Molecular Biology of the Cell</i> , 2000, 11, 497-510.	2.1	97
94	Cyclin A Down-Regulation in TGF β 1-Arrested Follicular Lymphoma Cells. <i>Experimental Cell Research</i> , 2000, 261, 250-259.	2.6	21
95	Ultrastructural Characterization of RPA-Containing Domains in Nuclei Assembled in <i>Xenopus</i> Egg Extracts. <i>Journal of Structural Biology</i> , 2000, 129, 211-217.	2.8	2
96	Defined Nuclear Changes Accompany the Reprogramming of the Microspore to Embryogenesis. <i>Journal of Structural Biology</i> , 2000, 129, 223-232.	2.8	49
97	An "Eclipse" over the Cell Nucleus at the Turn of the Century. <i>Journal of Structural Biology</i> , 2000, 129, 101.	2.8	1
98	In situ fluorescence visualization of bromouridine incorporated into newly transcribed nucleolar RNA. <i>Acta Histochemica</i> , 2000, 102, 15-20.	1.8	9
99	Expression of β -catenins and cadherins by follicular dendritic cells in human lymph nodes. <i>Acta Histochemica</i> , 2000, 102, 369-380.	1.8	5
100	Nuclear organization studied with the help of a hypotonic shift: its use permits hydrophilic molecules to enter into living cells. <i>Chromosoma</i> , 1999, 108, 325-335.	2.2	74
101	Human autoantibodies identify a protein in dense fibrillar and granular components of the nucleolus. <i>Acta Histochemica</i> , 1999, 101, 157-166.	1.8	0
102	Long-term action of potassium bromide on the rat thyroid gland. <i>Acta Histochemica</i> , 1998, 100, 11-23.	1.8	19
103	Processing of free cells for electron microscopy using a fibrin clot. <i>Acta Histochemica</i> , 1998, 100, 309-313.	1.8	3
104	Histones and DNA Ultrastructural Distribution in Plant Cell Nucleus: A Combination of Immunogold and Cytochemical Methods. <i>Experimental Cell Research</i> , 1998, 242, 45-59.	2.6	20
105	Non-isotopic detection of nucleolar transcription in pre-implantation mouse embryos. <i>Reproduction, Nutrition, Development</i> , 1998, 38, 117-126.	1.9	3
106	Expression of the proliferating cell nuclear antigen (PCNA) in the rat thyroid gland after exposure to bromide. <i>Acta Histochemica</i> , 1997, 99, 391-399.	1.8	10
107	Potassium bromide and the thyroid gland of the rat: morphology and immunohistochemistry, RIA and INAA analysis. <i>Annals of Anatomy</i> , 1997, 179, 421-431.	1.9	22
108	Heterogenous nuclear RNP C1 and C2 core proteins are targets for an autoantibody found in the serum of a patient with systemic sclerosis and psoriatic arthritis. <i>Arthritis and Rheumatism</i> , 1997, 40, 2172-2177.	6.7	28

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109	Ultrastructural Nonisotopic Mapping of Nucleolar Transcription Sites in Onion Protoplasts. <i>Journal of Structural Biology</i> , 1996, 116, 253-263.	2.8	43
110	Structural Organization of the Pre-mRNA Splicing Commitment: A Hypothesis. <i>Journal of Structural Biology</i> , 1996, 117, 189-194.	2.8	7
111	Nuclear ultrastructures associated with the RNA synthesis and processing. <i>Journal of Cellular Biochemistry</i> , 1995, 59, 11-26.	2.6	41
112	Does the Synthesis of Ribosomal RNA Take Place within Nucleolar Fibrillar Centers or Dense Fibrillar Components? A Critical Appraisal. <i>Journal of Structural Biology</i> , 1995, 114, 1-22.	2.8	77
113	The <i>Drosophila</i> lethal(2)giant larvae tumor suppressor protein is a component of the cytoskeleton.. <i>Journal of Cell Biology</i> , 1994, 127, 1345-1360.	5.2	125
114	Nonisotopic Ultrastructural Mapping of Transcription Sites within the Nucleolus. <i>Experimental Cell Research</i> , 1993, 208, 275-281.	2.6	106
115	Structure-function subcompartments of the mammalian cell nucleus as revealed by the electron microscopic affinity cytochemistry. <i>Cell Biology International Reports</i> , 1992, 16, 771-789.	0.6	34
116	Immunological and ultrastructural studies of the nuclear coiled body with autoimmune antibodies. <i>Experimental Cell Research</i> , 1991, 195, 27-37.	2.6	327
117	Ultrastructural cryoimmunocytochemistry is a convenient tool for the study of DNA replication in cultured cells. <i>Journal of Electron Microscopy Technique</i> , 1991, 18, 91-105.	1.1	22
118	Human autoantibody to a novel protein of the nuclear coiled body: immunological characterization and cDNA cloning of p80-coilin.. <i>Journal of Experimental Medicine</i> , 1991, 173, 1407-1419.	8.5	367
119	Immunocytochemistry of the cell nucleus. <i>Electron Microscopy Reviews</i> , 1990, 3, 301-353.	1.3	70
120	Association between the nucleolus and the coiled body. <i>Journal of Structural Biology</i> , 1990, 104, 120-127.	2.8	172
121	Ultrastructural immunolocalization of cyclin/PCNA in synchronized 3T3 cells. <i>Experimental Cell Research</i> , 1989, 184, 81-89.	2.6	32
122	Does the synthesis of ribosomal RNA take place-within nucleolar fibrillar centers or dense fibrillar components?. <i>Biology of the Cell</i> , 1989, 65, 79-82.	2.0	74
123	Immunolocalization of 7-2-ribonucleoprotein in the granular component of the nucleolus. <i>Experimental Cell Research</i> , 1988, 176, 117-128.	2.6	118
124	Autoantibodies in hypertrophic cardiomyopathy and their clinical significance. <i>European Heart Journal</i> , 1987, 8, 773-778.	2.2	3
125	Human autoantibodies: probes for nucleolus structure and function. <i>Vigiliae Christianae</i> , 1987, 54, 131-143.	0.1	116
126	Binding of (125I) triiodothyronine to human peripheral leukocytes and its internalization. <i>Experientia</i> , 1987, 43, 1117-1118.	1.2	6

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127	Internalization of triiodothyronine-bovine serum albumin-colloidal gold complexes in human peripheral leukocytes. <i>Experientia</i> , 1987, 43, 1119-1120.	1.2	3
128	Ultrastructural localization of rRNA in HeLa cells, rat liver cells and <i>Xenopus laevis</i> oocytes by means of the monoclonal antibody-protein A-gold technique. <i>The Histochemical Journal</i> , 1985, 17, 925-938.	0.6	4
129	Analysis of ring-shaped nucleoli in serially sectioned human lymphocytes. <i>Cell and Tissue Research</i> , 1983, 234, 707-711.	2.9	23
130	The ultrastructural demonstration of DNA filaments in nucleolonemata. <i>The Histochemical Journal</i> , 1983, 15, 308-309.	0.6	0
131	Optical diffraction analysis of crystalline inclusions in the rough endoplasmic reticulum of islet parenchymal cells of the hagfish, <i>Myxine glutinosa</i> . <i>Cell and Tissue Research</i> , 1982, 225, 461-464.	2.9	4
132	Fine structure of crystalline inclusions in B-cells of the islets of Langerhans in the alligator. <i>Cell and Tissue Research</i> , 1978, 187, 535-550.	2.9	9
133	The effect of the <i>Bacillus thuringiensis</i> exotoxin on the fine nucleolar morphology and ultrastructure. <i>Experimental Cell Research</i> , 1974, 87, 351-358.	2.6	3
134	Plain and Complex Flagella of <i>Pseudomonas rhodos</i> : Analysis of Fine Structure and Composition. <i>Journal of Bacteriology</i> , 1974, 117, 844-857.	2.2	61
135	Effect of histone on the nucleolar morphology of cells cultured in vitro. <i>Cell and Tissue Research</i> , 1973, 138, 273-282.	2.9	0
136	Electron microscopy of polyheads of bacteriophage T4 prepared by freeze-etching. <i>Journal of Ultrastructure Research</i> , 1973, 44, 27-40.	1.1	12