

Klaus Kayser

List of Publications by Year in descending order

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79
papers

2,816
citations

172457

29
h-index

189892

50
g-index

81
all docs

81
docs citations

81
times ranked

2779
citing authors

#	ARTICLE	IF	CITATIONS
1	Histopathology of thymectomy specimens from the MCTX-trial: Entropy analysis as strategy to quantify spatial heterogeneity of lymphoid follicle and fat distribution. PLoS ONE, 2018, 13, e0197435.	2.5	7
2	Merging carbohydrate chemistry with lectin histochemistry to study inhibition of lectin binding by glycoclusters in the natural tissue context. Histochemistry and Cell Biology, 2016, 145, 185-199.	1.7	16
3	Quantitation of Immunohistochemistry by Image Analysis Technique. , 2016, , 51-71.		0
4	How to define and implement diagnosis assistants in tissue-based diagnosis (surgical pathology): A survey. , 2015, , .		0
5	Comparative study between quantitative digital image analysis and fluorescence in situ hybridization of breast cancer equivocal human epidermal growth factor receptors 2 score 2+ cases. Journal of Pathology Informatics, 2015, 6, 31.	1.7	8
6	Human osteoarthritic knee cartilage: fingerprinting of adhesion/growth-regulatory galectins in vitro and in situ indicates differential upregulation in severe degeneration. Histochemistry and Cell Biology, 2014, 142, 373-388.	1.7	56
7	Introduction to glycopathology: the concept, the tools and the perspectives. Diagnostic Pathology, 2014, 9, 4.	2.0	24
8	Quantitative pathology in virtual microscopy: History, applications, perspectives. Acta Histochemica, 2013, 115, 527-532.	1.8	22
9	The history of pathology informatics: A global perspective. Journal of Pathology Informatics, 2013, 4, 7.	1.7	54
10	Introduction of virtual microscopy in routine surgical pathology - a hypothesis and personal view from Europe. Diagnostic Pathology, 2012, 7, 48.	2.0	29
11	How to Introduce Virtual Microscopy (VM) in Routine Diagnostic Pathology: Constraints, Ideas, and Solutions. Analytical Cellular Pathology, 2012, 35, 3-10.	1.4	8
12	Medical Telecommunication Systems Today: What has been Done -What can be Done. Journal of Telecommunications System & Management, 2012, 01, .	0.1	2
13	History and structures of telecommunication in pathology, focusing on open access platforms. Diagnostic Pathology, 2011, 6, 110.	2.0	14
14	Virtual slides in peer reviewed, open access medical publication. Diagnostic Pathology, 2011, 6, 124.	2.0	2
15	To be at the right place at the right time. Diagnostic Pathology, 2011, 6, 2-9.	2.0	2
16	Interactive and automated application of virtual microscopy. Diagnostic Pathology, 2011, 6, S10.	2.0	16
17	E-education in pathology including certification of e-institutions. Diagnostic Pathology, 2011, 6, S11.	2.0	17
18	Grid computing in image analysis. Diagnostic Pathology, 2011, 6, S12.	2.0	14

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19	How to measure diagnosis-associated information in virtual slides. Diagnostic Pathology, 2011, 6, S9.	2.0	23
20	Quantification of virtual slides: Approaches to analysis of content-based image information. Journal of Pathology Informatics, 2011, 2, 2.	1.7	13
21	AI (artificial intelligence) in histopathology—from image analysis to automated diagnosis.. Folia Histochemica Et Cytobiologica, 2010, 47, 355-61.	1.5	50
22	Standards in virtual microscopy: from tissue processing to image acquisition and visualization. Diagnostic Pathology, 2010, 5, .	2.0	4
23	Image standardization in tissue “ based diagnosis. Diagnostic Pathology, 2010, 5, .	2.0	5
24	Theory of sampling and its application in tissue based diagnosis. Diagnostic Pathology, 2009, 4, 6.	2.0	42
25	Image standards in Tissue-Based Diagnosis (Diagnostic Surgical Pathology). Diagnostic Pathology, 2008, 3, 17.	2.0	44
26	How to measure image quality in tissue-based diagnosis (diagnostic surgical pathology). Diagnostic Pathology, 2008, 3, S11.	2.0	29
27	Pharmacokinetic Analysis of Malignant Pleural Mesothelioma“Initial Results of Tumor Microcirculation and its Correlation to Microvessel Density (CD-34). Academic Radiology, 2008, 15, 563-570.	2.5	44
28	How to implement grid technology in tissue-based diagnosis: diagnostic surgical pathology. Expert Opinion on Medical Diagnostics, 2008, 2, 323-337.	1.6	0
29	Texture- and object-related automated information analysis in histological still images of various organs. , 2008, 30, 323-35.		17
30	The role of microvascularization and growth/adhesion-regulatory lectins in the prognosis of non-small cell lung cancer in stage IIa†. European Journal of Cardio-thoracic Surgery, 2007, 31, 783-787.	1.4	26
31	Diagnostic pathology - editorial. Diagnostic Pathology, 2007, 2, 2.	2.0	6
32	Frequent overexpression of the genesFXR1,CLAPM1andEIF4Glocated on amplicon 3q26-27 in squamous cell carcinoma of the lung. International Journal of Cancer, 2007, 120, 2538-2544.	5.1	94
33	Introducing Diagnostic Pathology. Diagnostic Pathology, 2006, 1, 1.	2.0	23
34	Towards an automated virtual slide screening: theoretical considerations and practical experiences of automated tissue-based virtual diagnosis to be implemented in the Internet. Diagnostic Pathology, 2006, 1, 10.	2.0	51
35	Grid technology in tissue-based diagnosis: fundamentals and potential developments. Diagnostic Pathology, 2006, 1, 23.	2.0	27
36	The diagnostic path, a useful visualisation tool in virtual microscopy. Diagnostic Pathology, 2006, 1, 40.	2.0	33

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37	Localized fibrous tumors (LFTs) of the pleura: Clinical data, asbestos burden, and syntactic structure analysis applied to newly defined angiogenic/growth-regulatory effectors. <i>Pathology Research and Practice</i> , 2005, 201, 791-801.	2.3	16
38	Numerical and structural centrosome aberrations are an early and stable event in the adenoma→carcinoma sequence of colorectal carcinomas. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2005, 447, 61-65.	2.8	32
39	Prognostic significance of microvascularization in cases of operated lung cancer. <i>European Journal of Cardio-thoracic Surgery</i> , 2005, 27, 1106-1111.	1.4	13
40	Prognostic Significance of Endogenous Adhesion/Growth-Regulatory Lectins in Lung Cancer. <i>Oncology</i> , 2005, 69, 167-174.	1.9	77
41	Lung carcinoma-associated atypical adenomatoid hyperplasia, squamous cell dysplasia, and chromosome alterations in non-neoplastic bronchial mucosa. <i>Lung Cancer</i> , 2005, 47, 205-214.	2.0	12
42	Teleconsultation in diagnostic pathology: experience from Iran and Germany with the use of two European telepathology servers. <i>Journal of Telemedicine and Telecare</i> , 2004, 10, 99-103.	2.7	30
43	Specific combinations of DNA repair gene variants and increased risk for non-small cell lung cancer. <i>Carcinogenesis</i> , 2004, 25, 2433-2441.	2.8	184
44	Determination of modulation of ligand properties of synthetic complex biantennary N-glycans by introduction of bisecting GlcNAc <i>in silico</i> , <i>in vitro</i> and <i>in vivo</i> . <i>FEBS Journal</i> , 2004, 271, 118-134.	0.2	108
45	Genotype relationships in the CYP3A locus in Caucasians. <i>Cancer Letters</i> , 2004, 207, 95-99.	7.2	42
46	New developments in digital pathology: from telepathology to virtual pathology laboratory. <i>Studies in Health Technology and Informatics</i> , 2004, 105, 61-9.	0.3	24
47	Chromosomal Aberrations, Profiles of Expression of Growth-related Markers Including Galectins and Environmental Hazards in Relation to the Incidence of Chondroid Pulmonary Hamartomas. <i>Pathology Research and Practice</i> , 2003, 199, 589-598.	2.3	16
48	Vascular diffusion density and survival of patients with primary lung carcinomas. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2003, 442, 462-467.	2.8	14
49	Atypical adenomatous hyperplasia of lung: its incidence and analysis of clinical, glycohistochemical and structural features including newly defined growth regulators and vascularization. <i>Lung Cancer</i> , 2003, 42, 171-182.	2.0	31
50	The CYP3A4*1B allele increases risk for small cell lung cancer. <i>Pharmacogenetics and Genomics</i> , 2003, 13, 607-618.	5.7	82
51	Expression, proliferation activity and clinical significance of cathepsin B and cathepsin L in operated lung cancer. <i>Anticancer Research</i> , 2003, 23, 2767-72.	1.1	29
52	Interdisciplinary telecommunication and expert teleconsultation in diagnostic pathology: present status and future prospects. <i>Journal of Telemedicine and Telecare</i> , 2002, 8, 325-330.	2.7	21
53	Structure-Activity Profiles of Complex Biantennary Glycans with Core Fucosylation and with/without Additional 1,2,3,4,6 Sialylation: Synthesis of Neoglycoproteins and Their Properties in Lectin Assays, Cell Binding, and Organ Uptake. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 478-491.	6.4	122
54	Overexpression of the eukaryotic translation initiation factor 4G (eIF4G-1) in squamous cell lung carcinoma. <i>International Journal of Cancer</i> , 2002, 98, 181-185.	5.1	72

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55	Myeloperoxidase(MPO)genotype and lung cancer histologic types: TheMPO α^*463 Aallele is associated with reduced risk for small cell lung cancer in smokers. International Journal of Cancer, 2002, 102, 530-535.	5.1	54
56	Primary colorectal carcinomas and their intrapulmonary metastases: Clinical, glyco-, immuno- and lectin histochemical, nuclear and syntactic structure analysis with emphasis on correlation with period of occurrence of metastases and survival. Apmis, 2002, 110, 435-446.	2.0	25
57	Telepathology overview: From concept to implementation. Human Pathology, 2001, 32, 1283-1299.	2.0	192
58	Glutathione-S-Transferase M1, M3, T1 and P1 polymorphisms and susceptibility to non-small-cell lung cancer subtypes and hamartomas. Pharmacogenetics and Genomics, 2001, 11, 757-764.	5.7	77
59	Endobronchial juvenile hemangioma - a case report of a neonate including immunohistochemical monitoring and nuclear, cellular, and vascular morphometry. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2001, 438, 192-197.	2.8	18
60	Glyco- and immunohistochemical refinement of the differential diagnosis between mesothelioma and metastatic carcinoma and survival analysis of patients. Journal of Pathology, 2001, 193, 175-180.	4.5	32
61	Survival, disease-free interval, and associated tumor features in patients with colon/rectal carcinomas and their resected intra-pulmonary metastases. European Journal of Cardio-thoracic Surgery, 2001, 19, 908-913.	1.4	92
62	Editorial. Analytical Cellular Pathology, 2000, 21, 95-96.	2.1	14
63	Association of Concentration of Asbestos and Asbestos-like Fibers with the Patient's Survival and the Binding Capacity of Lung Parenchyma to Galectin-1 and Natural α -Galactoside- and α -Mannoside-binding Immunoglobulin G Subfractions from Human Serum. Pathology Research and Practice, 2000, 196, 81-87.	2.3	11
64	Galectins-1 and -3 and their ligands in tumor biology. Journal of Cancer Research and Clinical Oncology, 1999, 125, 461-474.	2.5	181
65	Pulmonary metastases of breast carcinomas: Ligandohistochemical, nuclear, and structural analysis of primary and metastatic tumors with emphasis on period of occurrence of metastases and survival. , 1998, 69, 137-146.		20
66	Beyond Plant Lectin Histochemistry: Preparation and Application of Markers to Visualize the Cellular Capacity for Protein-Carbohydrate Recognition. Biotechnic and Histochemistry, 1998, 73, 263-277.	1.3	26
67	Diffuse Pulmonary Hemosiderosis after Exposure to Pesticides. Respiration, 1998, 65, 214-218.	2.6	14
68	Pulmonary metastases of breast carcinomas: ligandohistochemical, nuclear, and structural analysis of primary and metastatic tumors with emphasis on period of occurrence of metastases and survival. Journal of Surgical Oncology, 1998, 69, 137-146.	1.7	2
69	Neoglycoproteins with the Synthetic Complex Biantennary Nonasaccharide or Its α 2,3/ α 2,6-Sialylated Derivatives:Â Their Preparation, Assessment of Their Ligand Properties for Purified Lectins, for Tumor Cellsin Vitro, and in Tissue Sections, and Their Biodistribution in Tumor-Bearing Mice. Bioconjugate Chemistry, 1997, 8, 845-855.	3.6	100
70	Graph Theory and the EntropyConcept in Histochemistry. Progress in Histochemistry and Cytochemistry, 1997, 32, III-102.	5.1	20
71	Parameters Derived from Integrated Nuclear Fluorescence, Syntactic Structure Analysis, and Vascularization in Human Lung Carcinomas. Analytical Cellular Pathology, 1997, 15, 73-83.	2.1	16
72	Carcinoid tumors of the lung: Immuno- and ligandohistochemistry, analysis of integrated optical density, syntactic structure analysis, clinical data, and prognosis of patients treated surgically. , 1996, 63, 99-106.		39

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73	Developmental regulation of presence of binding sites for neoglycoproteins and endogenous lectins in various embryonic stages of human lung, liver and heart. Roux's Archives of Developmental Biology, 1995, 204, 344-349.	1.2	4
74	Protein-Zucker-Erkennung Grundlagen und Medizinische Anwendung am Beispiel der Tumorlektinologie. Die Naturwissenschaften, 1995, 82, 533-543.	1.6	42
75	Protein-Zucker-Erkennung Grundlagen und medizinische Anwendung am Beispiel der Tumorlektinologie. Die Naturwissenschaften, 1995, 82, 533-543.	1.6	3
76	[4] Detection and quantification of carbohydrate-binding sites on cell surfaces and in tissue sections by neoglycoproteins. Methods in Enzymology, 1994, 242, 37-46.	1.0	14
77	Alterations in human lung parenchyma after cytostatic therapy. Apmis, 1991, 99, 121-128.	2.0	9
78	Carrier-immobilized derivatized lysoganglioside GM1 is a ligand for specific binding sites in various human tumor cell types and peripheral blood lymphocytes and monocytes. Biochemical and Biophysical Research Communications, 1990, 169, 239-244.	2.1	25
79	Histopathologic evaluation of application of labeled neoglycoproteins in primary bronchus carcinoma. Human Pathology, 1989, 20, 352-360.	2.0	13