

Achilleas D Theocharis

List of Publications by Year in descending order

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98
papers

8,516
citations

61857

43
h-index

45213

90
g-index

99
all docs

99
docs citations

99
times ranked

11204
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular matrix structure. <i>Advanced Drug Delivery Reviews</i> , 2016, 97, 4-27.	6.6	1,581
2	Roles of matrix metalloproteinases in cancer progression and their pharmacological targeting. <i>FEBS Journal</i> , 2011, 278, 16-27.	2.2	1,305
3	Glycosaminoglycans: key players in cancer cell biology and treatment. <i>FEBS Journal</i> , 2012, 279, 1177-1197.	2.2	447
4	Proteoglycans in health and disease: novel roles for proteoglycans in malignancy and their pharmacological targeting. <i>FEBS Journal</i> , 2010, 277, 3904-3923.	2.2	348
5	A guide to the composition and functions of the extracellular matrix. <i>FEBS Journal</i> , 2021, 288, 6850-6912.	2.2	320
6	The extracellular matrix as a multitasking player in disease. <i>FEBS Journal</i> , 2019, 286, 2830-2869.	2.2	285
7	Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. <i>Chemical Reviews</i> , 2018, 118, 9152-9232.	23.0	253
8	Syndecans – key regulators of cell signaling and biological functions. <i>FEBS Journal</i> , 2017, 284, 27-41.	2.2	217
9	Matrix modeling and remodeling: A biological interplay regulating tissue homeostasis and diseases. <i>Matrix Biology</i> , 2019, 75-76, 1-11.	1.5	184
10	Pancreatic carcinoma is characterized by elevated content of hyaluronan and chondroitin sulfate with altered disaccharide composition. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2000, 1502, 201-206.	1.8	149
11	Proteoglycans remodeling in cancer: Underlying molecular mechanisms. <i>Matrix Biology</i> , 2019, 75-76, 220-259.	1.5	149
12	Estrogen receptor alpha mediates epithelial to mesenchymal transition, expression of specific matrix effectors and functional properties of breast cancer cells. <i>Matrix Biology</i> , 2015, 43, 42-60.	1.5	140
13	Altered content composition and structure of glycosaminoglycans and proteoglycans in gastric carcinoma. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 376-390.	1.2	133
14	Efficient TGF β ² -induced epithelial–mesenchymal transition depends on hyaluronan synthase HAS2. <i>Oncogene</i> , 2013, 32, 4355-4365.	2.6	121
15	Serglycin: At the Crossroad of Inflammation and Malignancy. <i>Frontiers in Oncology</i> , 2014, 3, 327.	1.3	119
16	Insights into the key roles of proteoglycans in breast cancer biology and translational medicine. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2015, 1855, 276-300.	3.3	96
17	Cross-talk between estradiol receptor and EGFR/IGF-IR signaling pathways in estrogen-responsive breast cancers: Focus on the role and impact of proteoglycans. <i>Matrix Biology</i> , 2014, 35, 182-193.	1.5	82
18	The Complex Interplay Between Extracellular Matrix and Cells in Tissues. <i>Methods in Molecular Biology</i> , 2019, 1952, 1-20.	0.4	82

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19	Serglycin Constitutively Secreted by Myeloma Plasma Cells Is a Potent Inhibitor of Bone Mineralization in Vitro. <i>Journal of Biological Chemistry</i> , 2006, 281, 35116-35128.	1.6	81
20	Cell-matrix interactions: focus on proteoglycan-proteinase interplay and pharmacological targeting in cancer. <i>FEBS Journal</i> , 2014, 281, 5023-5042.	2.2	80
21	Human colon adenocarcinoma is associated with specific post-translational modifications of versican and decorin. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2002, 1588, 165-172.	1.8	79
22	Syndecans as Modulators and Potential Pharmacological Targets in Cancer Progression. <i>Frontiers in Oncology</i> , 2014, 4, 4.	1.3	76
23	Serglycin Is Implicated in the Promotion of Aggressive Phenotype of Breast Cancer Cells. <i>PLoS ONE</i> , 2013, 8, e78157.	1.1	67
24	Estrogen receptor beta modulates breast cancer cells functional properties, signaling and expression of matrix molecules. <i>Matrix Biology</i> , 2016, 56, 4-23.	1.5	66
25	The biological role of chondroitin sulfate in cancer and chondroitin-based anticancer agents. <i>In Vivo</i> , 2008, 22, 385-9.	0.6	66
26	Estradiol-estrogen receptor: A key interplay of the expression of syndecan-2 and metalloproteinase-9 in breast cancer cells. <i>Molecular Oncology</i> , 2008, 2, 223-232.	2.1	65
27	Chondroitin Sulfate as a Key Molecule in the Development of Atherosclerosis and Cancer Progression. <i>Advances in Pharmacology</i> , 2006, 53, 281-295.	1.2	60
28	Capillary electrophoresis for the quality control of chondroitin sulfates in raw materials and formulations. <i>Analytical Biochemistry</i> , 2008, 374, 213-220.	1.1	58
29	Human abdominal aortic aneurysm is closely associated with compositional and specific structural modifications at the glycosaminoglycan level. <i>Atherosclerosis</i> , 1999, 145, 359-368.	0.4	53
30	The Importance of c-Kit and PDGF Receptors as Potential Targets for Molecular Therapy in Breast Cancer. <i>Current Medicinal Chemistry</i> , 2007, 14, 735-743.	1.2	53
31	Serglycin promotes breast cancer cell aggressiveness: Induction of epithelial to mesenchymal transition, proteolytic activity and IL-8 signaling. <i>Matrix Biology</i> , 2018, 74, 35-51.	1.5	53
32	Human abdominal aortic aneurysm is characterized by decreased versican concentration and specific downregulation of versican isoform VO. <i>Atherosclerosis</i> , 2001, 154, 367-376.	0.4	52
33	Hyaluronan and Chondroitin Sulfate Proteoglycans in the Supramolecular Organization of the Mammalian Vitreous Body. <i>Connective Tissue Research</i> , 2008, 49, 124-128.	1.1	51
34	Strategies to Target Matrix Metalloproteinases as Therapeutic Approach in Cancer. <i>Methods in Molecular Biology</i> , 2018, 1731, 325-348.	0.4	50
35	Compositional and structural alterations of chondroitin and dermatan sulfates during the progression of atherosclerosis and aneurysmal dilatation of the human abdominal aorta. <i>Biochimie</i> , 2002, 84, 667-674.	1.3	48
36	Versican in Health and Disease. <i>Connective Tissue Research</i> , 2008, 49, 230-234.	1.1	48

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37	Serglycin inhibits the classical and lectin pathways of complement via its glycosaminoglycan chains: Implications for multiple myeloma. <i>European Journal of Immunology</i> , 2011, 41, 437-449.	1.6	48
38	Evaluation of the coordinated actions of estrogen receptors with epidermal growth factor receptor and insulin-like growth factor receptor in the expression of cell surface heparan sulfate proteoglycans and cell motility in breast cancer cells. <i>FEBS Journal</i> , 2013, 280, 2248-2259.	2.2	47
39	Insights into the key roles of epigenetics in matrix macromolecules-associated wound healing. <i>Advanced Drug Delivery Reviews</i> , 2018, 129, 16-36.	6.6	47
40	Imatinib as a key inhibitor of the platelet-derived growth factor receptor mediated expression of cell surface heparan sulfate proteoglycans and functional properties of breast cancer cells. <i>FEBS Journal</i> , 2013, 280, 2477-2489.	2.2	46
41	Metabolism and biochemical/physiological roles of chondroitin sulfates: analysis of endogenous and supplemental chondroitin sulfates in blood circulation. <i>Biomedical Chromatography</i> , 2006, 20, 539-550.	0.8	45
42	Cell-surface serglycin promotes adhesion of myeloma cells to collagen type I and affects the expression of matrix metalloproteinases. <i>FEBS Journal</i> , 2013, 280, 2342-2352.	2.2	45
43	Versican but not decorin accumulation is related to malignancy in mammographically detected high density and malignant-appearing microcalcifications in non-palpable breast carcinomas. <i>BMC Cancer</i> , 2011, 11, 314.	1.1	44
44	PDGF/PDGFR Signaling and Targeting in Cancer Growth and Progression: Focus on Tumor Microenvironment and Cancer-associated Fibroblasts. <i>Current Pharmaceutical Design</i> , 2014, 20, 2843-2848.	0.9	42
45	In vitro reconstitution of complexes between pro-matrix metalloproteinase-9 and the proteoglycans serglycin and versican. <i>FEBS Journal</i> , 2013, 280, 2870-2887.	2.2	40
46	Compositional and structural alterations of proteoglycans in human rectum carcinoma with special reference to versican and decorin. <i>Anticancer Research</i> , 2002, 22, 2893-8.	0.5	40
47	Versican but not decorin accumulation is related to metastatic potential and neovascularization in testicular germ cell tumours. <i>Histopathology</i> , 2006, 49, 582-593.	1.6	36
48	Glycosaminoglycans as Key Molecules in Atherosclerosis: The Role of Versican and Hyaluronan. <i>Current Medicinal Chemistry</i> , 2012, 17, 4018-4026.	1.2	36
49	High-performance capillary electrophoretic analysis of hyaluronan and galactosaminoglycan-disaccharides in gastrointestinal carcinomas. Differential disaccharide composition as a possible tool-indicator for malignancies. <i>Biomedical Chromatography</i> , 2002, 16, 157-161.	0.8	35
50	Decreased biglycan expression and differential decorin localization in human abdominal aortic aneurysms. <i>Atherosclerosis</i> , 2002, 165, 221-230.	0.4	34
51	Matrix proteoglycans are markedly affected in advanced laryngeal squamous cell carcinoma. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2004, 1689, 152-161.	1.8	34
52	Large matrix proteoglycans, versican and perlecan, are expressed and secreted by human leukemic monocytes. <i>Anticancer Research</i> , 2003, 23, 3303-9.	0.5	34
53	Advances and Advantages of Nanomedicine in the Pharmacological Targeting of Hyaluronan-CD44 Interactions and Signaling in Cancer. <i>Advances in Cancer Research</i> , 2014, 123, 277-317.	1.9	33
54	Occurrence and structural characterization of versican-like proteoglycan in human vitreous. <i>Biochimie</i> , 2002, 84, 1235-1241.	1.3	30

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55	Pig vitreous gel: macromolecular composition with particular reference to hyaluronan-binding proteoglycans. <i>Biochimie</i> , 2002, 84, 295-302.	1.3	30
56	The increased accumulation of structurally modified versican and decorin is related with the progression of laryngeal cancer. <i>Biochimie</i> , 2006, 88, 1135-1143.	1.3	30
57	Wild blueberry (<i>Vaccinium angustifolium</i>) consumption affects the composition and structure of glycosaminoglycans in Sprague-Dawley rat aorta. <i>Journal of Nutritional Biochemistry</i> , 2006, 17, 109-116.	1.9	29
58	IGF-1R cooperates with ER α to inhibit breast cancer cell aggressiveness by regulating the expression and localisation of ECM molecules. <i>Scientific Reports</i> , 2017, 7, 40138.	1.6	29
59	Heparan sulfate: biological significance, tools for biochemical analysis and structural characterization. <i>Biomedical Chromatography</i> , 2011, 25, 11-20.	0.8	28
60	The role of heparins and nano-heparins as therapeutic tool in breast cancer. <i>Glycoconjugate Journal</i> , 2017, 34, 299-307.	1.4	28
61	Tumorigenic functions of serglycin: Regulatory roles in epithelial to mesenchymal transition and oncogenic signaling. <i>Seminars in Cancer Biology</i> , 2020, 62, 108-115.	4.3	28
62	Isolation and characterization of matrix proteoglycans from human nasal cartilage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1569, 117-126.	1.1	26
63	A comparative biochemical analysis of glycosaminoglycans and proteoglycans in human orthotopic and heterotopic bone. <i>IUBMB Life</i> , 2009, 61, 447-452.	1.5	26
64	Increased Expression of Serglycin in Specific Carcinomas and Aggressive Cancer Cell Lines. <i>BioMed Research International</i> , 2015, 2015, 1-10.	0.9	26
65	ADAMTS Expression in Colorectal Cancer. <i>PLoS ONE</i> , 2015, 10, e0121209.	1.1	25
66	Expression of matrix macromolecules and functional properties of EGF-responsive colon cancer cells are inhibited by panitumumab. <i>Investigational New Drugs</i> , 2013, 31, 516-524.	1.2	24
67	Expression of Syndecan-4 and Correlation with Metastatic Potential in Testicular Germ Cell Tumours. <i>BioMed Research International</i> , 2013, 2013, 1-10.	0.9	23
68	EGFR and HER2 exert distinct roles on colon cancer cell functional properties and expression of matrix macromolecules. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2651-2661.	1.1	21
69	Complexity of matrix phenotypes. <i>Matrix Biology Plus</i> , 2020, 6-7, 100038.	1.9	20
70	Proteoglycans in human laryngeal cartilage. Identification of proteoglycan types in successive cartilage extracts with particular reference to aggregating proteoglycans. <i>Biochimie</i> , 2004, 86, 221-229.	1.3	19
71	Cartilage aggrecan undergoes significant compositional and structural alterations during laryngeal cancer. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1046-1053.	1.1	19
72	Imbalance of MMP α 2 and MMP α 9 expression versus TIMP α 1 and TIMP α 2 reflects increased invasiveness of human testicular germ cell tumours. <i>Journal of Developmental and Physical Disabilities</i> , 2012, 35, 835-844.	3.6	19

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73	Identification, quantification and fine structural characterization of glycosaminoglycans from uterine leiomyoma and normal myometrium. <i>Biochimie</i> , 2001, 83, 529-536.	1.3	18
74	Targeting the Tumor Proteasome as a Mechanism to Control the Synthesis and Bioactivity of Matrix Macromolecules. <i>Current Molecular Medicine</i> , 2012, 12, 1068-1082.	0.6	16
75	Characterization of glycosaminoglycans from human normal and scoliotic nasal cartilage with particular reference to dermatan sulfate. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1528, 81-88.	1.1	15
76	Versican undergoes specific alterations in the fine molecular structure and organization in human aneurysmal abdominal aortas. <i>Biomedical Chromatography</i> , 2003, 17, 411-416.	0.8	15
77	Epidermal growth factor receptor status and Notch inhibition in non-small cell lung cancer cells. <i>Journal of Biomedical Science</i> , 2015, 22, 98.	2.6	15
78	Keratan sulphate in cerebrum, cerebellum and brainstem of sheep brain. <i>Biochimie</i> , 2001, 83, 973-978.	1.3	14
79	1.1 Extracellular matrix: a functional scaffold. , 2012, , 3-20.		12
80	Pathophysiology and Pharmacological Targeting of Tumor-Induced Bone Disease: Current Status and Emerging Therapeutic Interventions. <i>Current Medicinal Chemistry</i> , 2011, 18, 1584-1598.	1.2	11
81	EMMPRIN/CD147-enriched membrane vesicles released from malignant human testicular germ cells increase MMP production through tumor-stroma interaction. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2581-2588.	1.1	11
82	IGF-I affects glycosaminoglycan/proteoglycan synthesis in breast cancer cells through tyrosine kinase-dependent and -independent pathways. <i>Biochimie</i> , 2004, 86, 251-259.	1.3	10
83	Serglycin activates pro-tumorigenic signaling and controls glioblastoma cell stemness, differentiation and invasive potential. <i>Matrix Biology Plus</i> , 2020, 6-7, 100033.	1.9	10
84	Immunization with Specific Polysaccharide Antigen Reduces Alterations in Corneal Proteoglycans During Experimental Slime-Producing <i>Staphylococcus epidermidis</i> Keratitis. <i>Current Eye Research</i> , 2006, 31, 137-146.	0.7	9
85	Cellular Microenvironment in Human Pathologies. <i>BioMed Research International</i> , 2013, 2013, 1-2.	0.9	9
86	Dietary manganese affects the concentration, composition and sulfation pattern of heparan sulfate glycosaminoglycans in Sprague-Dawley rat aorta. <i>BioMetals</i> , 2006, 19, 535-546.	1.8	8
87	Hyaluronan Determination: Biological Significance & Analytical Tools. <i>Current Pharmaceutical Analysis</i> , 2007, 3, 117-128.	0.3	8
88	Synthesis and Antiproliferative Activity of Novel Dehydroabietic Acid-Chalcone Hybrids. <i>Molecules</i> , 2022, 27, 3623.	1.7	8
89	Immunological studies of sheep brain keratan sulphate proteoglycans. <i>Biochimie</i> , 2002, 84, 1223-1226.	1.3	7
90	Isolation and analysis of a novel acidic polysaccharide from the case of squid pen. <i>International Journal of Biological Macromolecules</i> , 1999, 26, 83-88.	3.6	6

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91	A sandwich ELISA for the estimation of human syndecan-2 and syndecan-4 in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 34, 797-801.	1.4	6
92	Keratan sulfateâ€containing proteoglycans in sheep brain with particular reference to phosphacan and synaptic vesicle proteoglycan isoforms. <i>Biomedical Chromatography</i> , 2009, 23, 455-463.	0.8	6
93	Serglycin Is Involved in TGF- β ² Induced Epithelial-Mesenchymal Transition and Is Highly Expressed by Immune Cells in Breast Cancer Tissue. <i>Frontiers in Oncology</i> , 2022, 12, 868868.	1.3	6
94	Glycosaminoglycan in cerebrum, cerebellum and brainstem of young sheep brain with particular reference to compositional and structural variations of chondroitinâ€dermatan sulfate and hyaluronan. <i>Biomedical Chromatography</i> , 2008, 22, 931-938.	0.8	4
95	State of the Art of Biochemical Markers in Metastatic Bone Disease and the Role of Bisphosphonates as Therapeutic Agents. <i>Current Pharmaceutical Analysis</i> , 2005, 1, 225-241.	0.3	4
96	Glycosaminoglycans in early chick embryo. <i>International Journal of Developmental Biology</i> , 2003, 47, 311-4.	0.3	3
97	8.5 Pharmacological targeting of proteoglycans and metalloproteinases: an emerging aspect in cancer treatment. , 2012, , 785-801.		1
98	Validated Capillary Electrophoretic Assays for Disaccharide Composition Analysis of Galactosaminoglycans in Biologic Samples and Drugs/Nutraceuticals. <i>Methods in Molecular Biology</i> , 2015, 1229, 129-141.	0.4	1