M Sharon Stack

List of Publications by Year
in descending order

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120 papers	7,546 citations	53794 45 h-index	60623 81 g-index
123 all docs	123 docs citations	123 times ranked	9379 citing authors

#	Article	IF	Citations
1	Multi-step pericellular proteolysis controls the transition from individual to collective cancer cell invasion. Nature Cell Biology, 2007, 9, 893-904.	10.3	888
2	Processing of Laminin-5 and Its Functional Consequences: Role of Plasmin and Tissue-type Plasminogen Activator. Journal of Cell Biology, 1998, 141, 255-265.	5.2	300
3	Membrane protease proteomics: Isotope-coded affinity tag MS identification of undescribed MT1â€“matrix metalloproteinase substrates. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6917-6922.	7.1	273
4	Proinvasive Properties of Ovarian Cancer Ascites-Derived Membrane Vesicles. Cancer Research, 2004, 64, 7045-7049.	0.9	228
5	Engagement of Collagen-Binding Integrins Promotes Matrix Metalloproteinase-9â€“Dependent E-Cadherin Ectodomain Shedding in Ovarian Carcinoma Cells. Cancer Research, 2007, 67, 2030-2039.	0.9	209
6	Proteases, Extracellular Matrix, and Cancer. American Journal of Pathology, 2004, 164, 1131-1139.	3.8	202
7	Wnt5a Signaling in Cancer. Cancers, 2016, 8, 79.	3.7	182
8	Matrix Metalloproteinase 9 Is a Mediator of Epidermal Growth Factorâ€“Dependent E-Cadherin Loss in Ovarian Carcinoma Cells. Cancer Research, 2008, 68, 4606-4613.	0.9	168
9	Phenotypic plasticity of neoplastic ovarian epithelium: unique cadherin profiles in tumor progression. Clinical and Experimental Metastasis, 2008, 25, 643-655.	3.3	163
10	Functional Interplay between Type I Collagen and Cell Surface Matrix Metalloproteinase Activity. Journal of Biological Chemistry, 2001, 276, 24833-24842.	3.4	151
11	In vivo tumor growth of high-grade serous ovarian cancer cell lines. Gynecologic Oncology, 2015, 138, 372-377.	1.4	149
12	Membrane associated matrix metalloproteinases in metastasis. BioEssays, 1999, 21, 940-949.	2.5	138
13	Epidermal Growth Factor Receptor Inhibition Promotes Desmosome Assembly and Strengthens Intercellular Adhesion in Squamous Cell Carcinoma Cells. Journal of Biological Chemistry, 2004, 279, 37191-37200.	3.4	135
14	Differential Regulation of Membrane Type 1-Matrix Metalloproteinase Activity by ERK 1/2- and p38 MAPK-modulated Tissue Inhibitor of Metalloproteinases 2 Expression Controls Transforming Growth Factor-Î²1-induced Pericellular Collagenolysis. Journal of Biological Chemistry, 2004, 279, 39042-39050.	3.4	130
15	Membrane type 1-matrix metalloproteinase: Substrate diversity in pericellular proteolysisâ˜†. Seminars in Cell and Developmental Biology, 2008, 19, 24-33.	5.0	125
16	Collagen Binding Properties of the Membrane Type-1 Matrix Metalloproteinase (MT1-MMP) Hemopexin C Domain. Journal of Biological Chemistry, 2002, 277, 39005-39014.	3.4	123
17	Intact Vitronectin Induces Matrix Metalloproteinase-2 and Tissue Inhibitor of Metalloproteinases-2 Expression and Enhanced Cellular Invasion by Melanoma Cells. Journal of Biological Chemistry, 1998, 273, 143-149.	3.4	115
18	Secretion of extracellular matrix-degrading proteinases is increased in epithelial ovarian carcinoma. International Journal of Cancer, 1994, 56, 552-559.	5.1	114

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19	Cyclooxygenase-2 Functions as a Downstream Mediator of Lysophosphatidic Acid to Promote Aggressive Behavior in Ovarian Carcinoma Cells. Cancer Research, 2005, 65, 2234-2242.	0.9	105
20	Angiostatin inhibits endothelial and melanoma cellular invasion by blocking matrix-enhanced plasminogen activation. Biochemical Journal, 1999, 340, 77-84.	3.7	101
21	Evidence for preferential adhesion of ovarian epithelial carcinoma cells to type I collagen mediated by the Î±2Î²1 integrin. , 1996, 67, 695-701.		100
22	Ovarian Cancer Cell Detachment and Multicellular Aggregate Formation Are Regulated by Membrane Type 1 Matrix Metalloproteinase: A Potential Role in I.p. Metastatic Dissemination. Cancer Research, 2009, 69, 7121-7129.	0.9	93
23	Critical Role of Lysophospholipids in the Pathophysiology, Diagnosis, and Management of Ovarian Cancer. , 2002, 107, 259-283.		90
24	Pushing the limit: masticatory stress and adaptive plasticity in mammalian craniomandibular joints. Journal of Experimental Biology, 2007, 210, 628-641.	1.7	88
25	Production of extracellular matrix-degrading proteinases by primary cultures of human epithelial ovarian carcinoma cells. , 1997, 80, 1457-1463.		86
26	Microenvironmental Regulation of Membrane Type 1 Matrix Metalloproteinase Activity in Ovarian Carcinoma Cells via Collagen-induced EGR1 Expression. Journal of Biological Chemistry, 2007, 282, 4924-4931.	3.4	83
27	Diverse mechanisms for activation of Wnt signalling in the ovarian tumour microenvironment. Biochemical Journal, 2011, 437, 1-12.	3.7	83
28	Glycosylation Broadens the Substrate Profile of Membrane Type 1 Matrix Metalloproteinase. Journal of Biological Chemistry, 2004, 279, 8278-8289.	3.4	79
29	Metastatic Dissemination of Human Ovarian Epithelial Carcinoma Is Promoted by Î±2Î²1-Integrin-Mediated Interaction with Type I Collagen. Invasion & Metastasis, 1998, 18, 15-26.	0.5	75
30	Obesity Contributes to Ovarian Cancer Metastatic Success through Increased Lipogenesis, Enhanced Vascularity, and Decreased Infiltration of M1 Macrophages. Cancer Research, 2015, 75, 5046-5057.	0.9	74
31	Urinary-type Plasminogen Activator (uPA) Expression and uPA Receptor Localization Are Regulated by Î±3Î²1Integrin in Oral Keratinocytes. Journal of Biological Chemistry, 2000, 275, 23869-23876.	3.4	73
32	Complex Determinants of Epithelial: Mesenchymal Phenotypic Plasticity in Ovarian Cancer. Cancers, 2017, 9, 104.	3.7	73
33	Proteinase requirements of epidermal growth factorâ€“induced ovarian cancer cell invasion. , 1998, 78, 331-337.		70
34	An ion-exchange nanomembrane sensor for detection of nucleic acids using a surface charge inversion phenomenon. Biosensors and Bioelectronics, 2014, 60, 92-100.	10.1	61
35	Virology and molecular pathogenesis of HPV (human papillomavirus)associated oropharyngeal squamous cell carcinoma. Biochemical Journal, 2012, 443, 339-353.	3.7	60
36	DNA damage in oral cancer cells induced by nitrogen atmospheric pressure plasma jets. Applied Physics Letters, 2013, 102, .	3.3	60

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37	Polypyrimidine Tract-binding Protein (PTB) Differentially Affects Malignancy in a Cell Line-dependent Manner. Journal of Biological Chemistry, 2008, 283, 20277-20287.	3.4	53
38	Targeting the EGF Receptor for Ovarian Cancer Therapy. Journal of Oncology, 2010, 2010, 1-11.	1.3	53
39	Functional Relevance of Urinary-type Plasminogen Activator Receptor-Î±3Î²1 Integrin Association in Proteinase Regulatory Pathways. Journal of Biological Chemistry, 2006, 281, 13021-13029.	3.4	52
40	Motility-related actinin alpha-4 is associated with advanced and metastatic ovarian carcinoma. Laboratory Investigation, 2008, 88, 602-614.	3.7	52
41	Angiostatin inhibits endothelial and melanoma cellular invasion by blocking matrix-enhanced plasminogen activation. Biochemical Journal, 1999, 340, 77.	3.7	50
42	Down-regulation of Integrin Î±2 Surface Expression by Mutant Epidermal Growth Factor Receptor (EGFRvIII) Induces Aberrant Cell Spreading and Focal Adhesion Formation. Cancer Research, 2005, 65, 9280-9286.	0.9	50
43	Microenvironmental Regulation of Chemokine (C-X-C-Motif) Receptor 4 in Ovarian Carcinoma. Molecular Cancer Research, 2010, 8, 653-664.	3.4	50
44	Calcium Regulation of Matrix Metalloproteinase-mediated Migration in Oral Squamous Cell Carcinoma Cells. Journal of Biological Chemistry, 2002, 277, 41480-41488.	3.4	49
45	Calcium-induced Matrix Metalloproteinase 9 Gene Expression Is Differentially Regulated by ERK1/2 and p38 MAPK in Oral Keratinocytes and Oral Squamous Cell Carcinoma. Journal of Biological Chemistry, 2004, 279, 33139-33146.	3.4	49
46	Urinary-type plasminogen activator (uPA) and its receptor (uPAR) in squamous cell carcinoma of the oral cavity. Biochemical Journal, 2007, 407, 153-159.	3.7	49
47	Identification of a Human Papillomavirusâ€“Associated Oncogenic miRNA Panel in Human Oropharyngeal Squamous Cell Carcinoma Validated by Bioinformatics Analysis of The Cancer Genome Atlas. American Journal of Pathology, 2015, 185, 679-692.	3.8	49
48	Heterogeneous Cadherin Expression and Multicellular Aggregate Dynamics in Ovarian Cancer Dissemination. Neoplasia, 2017, 19, 549-563.	5.3	48
49	Proteinase Suppression by E-cadherin-mediated Cell-Cell Attachment in Premalignant Oral Keratinocytes. Journal of Biological Chemistry, 2002, 277, 38159-38167.	3.4	47
50	Kallikrein-5 Promotes Cleavage of Desmoglein-1 and Loss of Cell-Cell Cohesion in Oral Squamous Cell Carcinoma. Journal of Biological Chemistry, 2011, 286, 9127-9135.	3.4	47
51	Lysophosphatidic Acid Initiates Epithelial to Mesenchymal Transition and Induces Î²-Catenin-mediated Transcription in Epithelial Ovarian Carcinoma. Journal of Biological Chemistry, 2015, 290, 22143-22154.	3.4	47
52	Microenvironmental Regulation of Ovarian Cancer Metastasis. Cancer Treatment and Research, 2009, 149, 319-334.	0.5	46
53	Integrin Regulation of Î²-Catenin Signaling in Ovarian Carcinoma. Journal of Biological Chemistry, 2011, 286, 23467-23475.	3.4	46
54	Modulation of the Membrane Type 1 Matrix Metalloproteinase Cytoplasmic Tail Enhances Tumor Cell Invasion and Proliferation in Three-dimensional Collagen Matrices. Journal of Biological Chemistry, 2009, 284, 19791-19799.	3.4	45

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55	Expression of membrane type 1 matrix metalloproteinase (MMP-14) in epithelial ovarian cancer: High level expression in clear cell carcinoma. Gynecologic Oncology, 2009, 112, 319-324.	1.4	43
56	Proteolytic modification of laminins: Functional consequences. Microscopy Research and Technique, 2000, 51, 238-246.	2.2	42
57	Matrix Rigidity Activates Wnt Signaling through Down-regulation of Dickkopf-1 Protein. Journal of Biological Chemistry, 2013, 288, 141-151.	3.4	42
58	Wilms tumor gene protein 1 is associated with ovarian cancer metastasis and modulates cell invasion. Cancer, 2008, 112, 1632-1641.	4.1	41
59	Current Technologies and Recent Developments for Screening of HPV-Associated Cervical and Oropharyngeal Cancers. Cancers, 2016, 8, 85.	3.7	41
60	Protease-activated Receptor-2 (PAR-2)-mediated Nf-Î²B Activation Suppresses Inflammation-associated Tumor Suppressor MicroRNAs in Oral Squamous Cell Carcinoma. Journal of Biological Chemistry, 2016, 291, 6936-6945.	3.4	40
61	Downregulation of connective tissue growth factor by threeâ€dimensional matrix enhances ovarian carcinoma cell invasion. International Journal of Cancer, 2009, 125, 816-825.	5.1	39
62	Multiple kallikrein (KLK 5, 7, 8, and 10) expression in squamous cell carcinoma of the oral cavity. Histology and Histopathology, 2009, 24, 197-207.	0.7	39
63	Spatial Regulation and Activity Modulation of Plasmin by High Affinity Binding to the G domain of the Î±3 Subunit of Laminin-5. Journal of Biological Chemistry, 2000, 275, 34887-34893.	3.4	38
64	Adaptive Plasticity in the Mammalian Masticatory Complex: You AreWhat, and How, You Eat. , 2008, , 293-328.		38
65	Lysophosphatidic Acid Down-Regulates Stress Fibers and Up-Regulates Proâ€“Matrix Metalloproteinase-2 Activation in Ovarian Cancer Cells. Molecular Cancer Research, 2007, 5, 121-131.	3.4	36
66	The Cell Surface Glycoprotein CUB Domain-containing Protein 1 (CDCP1) Contributes to Epidermal Growth Factor Receptor-mediated Cell Migration. Journal of Biological Chemistry, 2012, 287, 9792-9803.	3.4	36
67	Membrane-type I matrix metalloproteinase-dependent ectodomain shedding of mucin16/ CA-125 on ovarian cancer cells modulates adhesion and invasion of peritoneal mesothelium. Biological Chemistry, 2014, 395, 1221-1231.	2.5	36
68	Metalloproteinases in Ovarian Cancer. International Journal of Molecular Sciences, 2021, 22, 3403.	4.1	35
69	Methods for the visualization and analysis of extracellular matrix protein structure and degradation. Methods in Cell Biology, 2018, 143, 79-95.	1.1	34
70	Activated Epidermal Growth Factor Receptor in Ovarian Cancer. Cancer Treatment and Research, 2009, 149, 203-226.	0.5	34
71	Decrease of miR-146a is associated with the aggressiveness of human oral squamous cell carcinoma. Archives of Oral Biology, 2015, 60, 1416-1427.	1.8	33
72	Epidermal Growth Factor Receptorâ€“Mediated Membrane Type 1 Matrix Metalloproteinase Endocytosis Regulates the Transition between Invasive versus Expansive Growth of Ovarian Carcinoma Cells in Three-Dimensional Collagen. Molecular Cancer Research, 2009, 7, 809-820.	3.4	32

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73	Coordinate expression of urinary-type plasminogen activator and its receptor accompanies malignant transformation of the ovarian surface epithelium. American Journal of Obstetrics and Gynecology, 1994, 170, 1285-1296.	1.3	31
74	Loss of adhesion-regulated proteinase production is correlated with invasive activity in oral squamous cell carcinoma. Cancer, 2002, 95, 2524-2533.	4.1	31
75	Host Wnt5a Potentiates Microenvironmental Regulation of Ovarian Cancer Metastasis. Cancer Research, 2020, 80, 1156-1170.	0.9	31
76	EGF-receptor regulation of matrix metalloproteinases in epithelial ovarian carcinoma. Future Oncology, 2009, 5, 323-338.	2.4	30
77	Integrated, DC voltage-driven nucleic acid diagnostic platform for real sample analysis: Detection of oral cancer. Talanta, 2015, 145, 35-42.	5.5	30
78	Using "Mighty Mouse" to understand masticatory plasticity: myostatin-deficient mice and musculoskeletal function. Integrative and Comparative Biology, 2008, 48, 345-359.	2.0	29
79	Mesenchymal transformation in epithelial ovarian tumor cells expressing epidermal growth factor receptor variant III. Molecular Carcinogenesis, 2006, 45, 851-860.	2.7	28
80	Modeling the effect of ascites-induced compression on ovarian cancer multicellular aggregates. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	27
81	With Great Age Comes Great Metastatic Ability: Ovarian Cancer and the Appeal of the Aging Peritoneal Microenvironment. Cancers, 2018, 10, 230.	3.7	27
82	FluorescenceIn SituHybridization for MicroRNA Detection in Archived Oral Cancer Tissues. Journal of Oncology, 2012, 2012, 1-8.	1.3	25
83	Ascites-induced compression alters the peritoneal microenvironment and promotes metastatic success in ovarian cancer. Scientific Reports, 2020, 10, 11913.	3.3	25
84	Ovarian Cancer- Associated Proteinases. Cancer Treatment and Research, 2002, 107, 331-351.	0.5	24
85	Urinary-Type Plasminogen Activator Receptor/Î±3Î²1 Integrin Signaling, Altered Gene Expression, and Oral Tumor Progression. Molecular Cancer Research, 2010, 8, 145-158.	3.4	23
86	Correlation of X-Ray Computed Tomography with Quantitative Nuclear Magnetic Resonance Methods for Pre-Clinical Measurement of Adipose and Lean Tissues in Living Mice. Sensors, 2014, 14, 18526-18542.	3.8	23
87	Integrin-linked kinase activity modulates the pro-metastatic behavior of ovarian cancer cells. Oncotarget, 2016, 7, 21968-21981.	1.8	23
88	Lysophosphatidic Acid Disrupts Junctional Integrity and Epithelial Cohesion in Ovarian Cancer Cells. Journal of Oncology, 2012, 2012, 1-8.	1.3	22
89	Lipid Regulatory Proteins as Potential Therapeutic Targets for Ovarian Cancer in Obese Women. Cancers, 2020, 12, 3469.	3.7	21
90	Aging Increases Susceptibility to Ovarian Cancer Metastasis in Murine Allograft Models and Alters Immune Composition of Peritoneal Adipose Tissue. Neoplasia, 2018, 20, 621-631.	5.3	20

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91	Analysis of matrix degradation. Methods in Cell Biology, 2002, 69, 195-205.	1.1	18
92	Inhibitors of NF-kappaB reverse cellular invasion and target gene upregulation in an experimental model of aggressive oral squamous cell carcinoma. Oral Oncology, 2014, 50, 468-477.	1.5	18
93	Comparison of Plasminogen Binding and Activation on Extracellular Matrices Produced by Vascular Smooth Muscle and Endothelial Cells. FEBS Journal, 1994, 226, 937-943.	0.2	17
94	Epigenetic Targeting of Adipocytes Inhibits High-Grade Serous Ovarian Cancer Cell Migration and Invasion. Molecular Cancer Research, 2018, 16, 1226-1240.	3.4	17
95	Autocrine regulation of growth stimulation in human epithelial ovarian carcinoma by serine-proteinase-catalysed release of the urinary-type-plasminogen-activator N-terminal fragment. Biochemical Journal, 1999, 341, 765-769.	3.7	15
96	Masticatory Loading, Function, and Plasticity: A Microanatomical Analysis of Mammalian Circumorbital Softâ€Tissue Structures. Anatomical Record, 2010, 293, 642-650.	1.4	15
97	Assessment of common somatic mutations of EGFR, KRAS, BRAF, NRAS in pulmonary non-small cell carcinoma using iPLEXÂ® HS, a new highly sensitive assay for the MassARRAYÂ® System. PLoS ONE, 2017, 12, e0183715.	2.5	15
98	Post-translational modification of the membrane type 1 matrix metalloproteinase (MT1-MMP) cytoplasmic tail impacts ovarian cancer multicellular aggregate dynamics. Journal of Biological Chemistry, 2017, 292, 13111-13121.	3.4	13
99	Activation-coupled membrane-type 1 matrix metalloproteinase membrane trafficking. Biochemical Journal, 2007, 407, 171-177.	3.7	12
100	Urinary-type plasminogen activator receptor (uPAR) modulates oral cancer cell behavior with alteration in p130cas. Molecular and Cellular Biochemistry, 2011, 357, 151-161.	3.1	12
101	Chemical Analysis of Morphological Changes in Lysophosphatidic Acid-Treated Ovarian Cancer Cells. Scientific Reports, 2017, 7, 15295.	3.3	12
102	RNA-seq Reveals the Overexpression of IGSF9 in Endometrial Cancer. Journal of Oncology, 2018, 2018, 1-13.	1.3	12
103	Quantitation of Intra-peritoneal Ovarian Cancer Metastasis. Journal of Visualized Experiments, 2016, , .	0.3	11
104	In vivo selection of highly metastatic human ovarian cancer sublines reveals role for AMIGO2 in intra-peritoneal metastatic regulation. Cancer Letters, 2021, 503, 163-173.	7.2	11
105	Molecules of cell adhesion and extracellular matrix proteolysis in oral squamous cell carcinoma. Histology and Histopathology, 2010, 25, 917-32.	0.7	11
106	Host Mesothelin Expression Increases Ovarian Cancer Metastasis in the Peritoneal Microenvironment. International Journal of Molecular Sciences, 2021, 22, 12443.	4.1	10
107	Autocrine regulation of growth stimulation in human epithelial ovarian carcinoma by serine-proteinase-catalysed release of the urinary-type-plasminogen-activator N-terminal fragment. Biochemical Journal, 1999, 341, 765.	3.7	7
108	Lysophosphatidic acid modulates ovarian cancer multicellular aggregate assembly and metastatic dissemination. Scientific Reports, 2020, 10, 10877.	3.3	7

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109	SV40 early genes induce neoplastic properties in serous borderline ovarian tumor cells. Gynecologic Oncology, 2008, 111, 125-131.	1.4	6
110	Nonsteroidal antiinflammatory drugs and progestins synergistically enhance cell death in ovarian epithelial cells. American Journal of Obstetrics and Gynecology, 2012, 206, 253.e1-253.e9.	1.3	6
111	Large-Scale Image Analysis for Investigating Spatio-Temporal Changes in Nuclear DNA Damage Caused by Nitrogen Atmospheric Pressure Plasma Jets. International Journal of Molecular Sciences, 2020, 21, 4127.	4.1	6
112	Quantitative proteomic analysis of murine white adipose tissue for peritoneal cancer metastasis. Analytical and Bioanalytical Chemistry, 2018, 410, 1583-1594.	3.7	5
113	Integrins and Cancer. , 2010, , 509-529.		3
114	3D Mapping of plasma effective areas via detection of cancer cell damage induced by atmospheric pressure plasma jets. Journal of Physics: Conference Series, 2014, 565, 012011.	0.4	2
115	Multiparity activates interferon pathways in peritoneal adipose tissue and decreases susceptibility to ovarian cancer metastasis in a murine allograft model. Cancer Letters, 2017, 411, 74-81.	7.2	2
116	Development and evaluation of ActSeq: A targeted next-generation sequencing panel for clinical oncology use. PLoS ONE, 2022, 17, e0266914.	2.5	2
117	MicroRNA Profiles of HPV-Associated Oropharyngeal Squamous Cell Carcinoma (OPSCC). , 2015, , 133-152.		1
118	3 Pathophysiology of Kallikrein-related Peptidases in Head and Neck Cancer. , 2012, , 45-60.		0
119	Matrix Metalloproteinases. , 2011, , 2183-2187.		0
120	Matrix Metalloproteinases. , 2015, , 2673-2677.		0