David G Fernig

List of Publications by Year
in descending order

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210	12,774	36303	27406
papers	citations	51 h-index	106 g-index

234	234	234	17007
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Determination of Size and Concentration of Gold Nanoparticles from UVâ˜Vis Spectra. Analytical Chemistry, 2007, 79, 4215-4221.	6.5	3,008
2	Rational and Combinatorial Design of Peptide Capping Ligands for Gold Nanoparticles. Journal of the American Chemical Society, 2004, 126, 10076-10084.	13.7	670
3	A rapid method to estimate the concentration of citrate capped silver nanoparticles from UV-visible light spectra. Analyst, The, 2014, 139, 4855.	3.5	548
4	Kinase-Catalyzed Modification of Gold Nanoparticles:Â A New Approach to Colorimetric Kinase Activity Screening. Journal of the American Chemical Society, 2006, 128, 2214-2215.	13.7	269
5	Extremely Stable Water-Soluble Ag Nanoparticles. Chemistry of Materials, 2005, 17, 4630-4635.	6.7	245
6	Interactions of heparin/heparan sulfate with proteins: Appraisal of structural factors and experimental approaches. Glycobiology, 2004, 14, 17R-30R.	2.5	231
7	Heparin Inhibits Cellular Invasion by SARS-CoV-2: Structural Dependence of the Interaction of the Spike S1 Receptor-Binding Domain with Heparin. Thrombosis and Haemostasis, 2020, 120, 1700-1715.	3.4	228
8	A Systems Biology Approach for the Investigation of the Heparin/Heparan Sulfate Interactome. Journal of Biological Chemistry, 2011, 286, 19892-19904.	3.4	203
9	Endocan Is a Novel Chondroitin Sulfate/Dermatan Sulfate Proteoglycan That Promotes Hepatocyte Growth Factor/Scatter Factor Mitogenic Activity. Journal of Biological Chemistry, 2001, 276, 48341-48349.	3.4	195
10	Fibroblast growth factors and their receptors: An information network controlling tissue growth, morphogenesis and repair. Progress in Growth Factor Research, 1994, 5, 353-377.	1.6	173
11	Long-term tracking of cells using inorganic nanoparticles as contrast agents: are we there yet?. Chemical Society Reviews, 2012, 41, 2707.	38.1	157
12	The heparanome and regulation of cell function: structures, functions and challenges. Frontiers in Bioscience - Landmark, 2008, Volume, 4309.	3.0	143
13	Hepatocyte Growth Factor/Scatter Factor Binds with High Affinity to Dermatan Sulfate. Journal of Biological Chemistry, 1998, 273, 271-278.	3.4	142
14	Interactions of Multiple Heparin Binding Growth Factors with Neuropilin-1 and Potentiation of the Activity of Fibroblast Growth Factor-2. Journal of Biological Chemistry, 2005, 280, 13457-13464.	3.4	141
15	Human Lactoferrin Interacts with Soluble CD14 and Inhibits Expression of Endothelial Adhesion Molecules, E-Selectin and ICAM-1, Induced by the CD14-Lipopolysaccharide Complex. Infection and Immunity, 2000, 68, 6519-6525.	2.2	136
16	Differential Effects of Heparin Saccharides on the Formation of Specific Fibroblast Growth Factor (FGF) and FGF Receptor Complexes. Journal of Biological Chemistry, 2002, 277, 2444-2453.	3.4	130
17	Interaction of Heparan Sulfate from Mammary Cells with Acidic Fibroblast Growth Factor (FGF) and Basic FGF. Journal of Biological Chemistry, 1998, 273, 7303-7310.	3.4	113
18	Programmed cell death in bovine mammary tissue during lactation and involution. Experimental Physiology, 1997, 82, 943-953.	2.0	112

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19	Fibroblast growth factor-2 binds to small heparin-derived oligosaccharides and stimulates a sustained phosphorylation of p42/44 mitogen-activated protein kinase and proliferation of rat mammary fibroblasts. Biochemical Journal, 2002, 366, 235-244.	3.7	110
20	Cathepsin L Digestion of Nanobioconjugates upon Endocytosis. ACS Nano, 2009, 3, 2461-2468.	14.6	110
21	Robust Ligand Shells for Biological Applications of Gold Nanoparticles. Langmuir, 2008, 24, 13572-13580.	3.5	108
22	Transport of Fibroblast Growth Factor 2 in the Pericellular Matrix Is Controlled by the Spatial Distribution of Its Binding Sites in Heparan Sulfate. PLoS Biology, 2012, 10, e1001361.	5.6	103
23	Early lung malformations in congenital diaphragmatic hernia. Journal of Pediatric Surgery, 2000, 35, 124-128.	1.6	102
24	The Peptide Route to Multifunctional Gold Nanoparticles. Bioconjugate Chemistry, 2005, 16, 497-500.	3.6	102
25	N-Glycosylation of Fibroblast Growth Factor Receptor 1 Regulates Ligand and Heparan Sulfate Co-receptor Binding. Journal of Biological Chemistry, 2006, 281, 27178-27189.	3.4	101
26	Edible Mushroom (Agaricus bisporus) Lectin, Which Reversibly Inhibits Epithelial Cell Proliferation, Blocks Nuclear Localization Sequence-dependent Nuclear Protein Import. Journal of Biological Chemistry, 1999, 274, 4890-4899.	3.4	97
27	Cobalt nanoparticles as a novel magnetic resonance contrast agentâ€"relaxivities at 1.5 and 3 Tesla. Contrast Media and Molecular Imaging, 2008, 3, 150-156.	0.8	92
28	Fibroblast Growth Factor Receptors 1 and 2 Interact Differently with Heparin/Heparan Sulfate. Journal of Biological Chemistry, 2002, 277, 28554-28563.	3.4	89
29	Interactions of Hepatocyte Growth Factor/Scatter Factor with Various Glycosaminoglycans Reveal an Important Interplay between the Presence of Iduronate and Sulfate Density. Journal of Biological Chemistry, 2008, 283, 5235-5248.	3.4	80
30	Binding to Intracellular Targets of the Metastasis-Inducing Protein, S100A4 (p9Ka). Biochemical and Biophysical Research Communications, 2001, 286, 1212-1217.	2.1	77
31	Fibroblast growth factors as tissue repair and regeneration therapeutics. PeerJ, 2016, 4, e1535.	2.0	77
32	Biocompatible Peptide-Coated Ultrasmall Superparamagnetic Iron Oxide Nanoparticles for In Vivo Contrast-Enhanced Magnetic Resonance Imaging. ACS Nano, 2018, 12, 6480-6491.	14.6	76
33	RAN GTPase is an effector of the invasive/metastatic phenotype induced by osteopontin. Oncogene, 2008, 27, 7139-7149.	5.9	75
34	Diversification of the Structural Determinants of Fibroblast Growth Factor-Heparin Interactions. Journal of Biological Chemistry, 2012, 287, 40061-40073.	3.4	69
35	Cell surface-expressed Thomsen-Friedenreich antigen in colon cancer is predominantly carried on high molecular weight splice variants of CD44. Glycobiology, 2001, 11, 587-592.	2.5	68
36	Developing Rat Lung Has a Sided Pacemaker Region for Morphogenesis-Related Airway Peristalsis. American Journal of Respiratory Cell and Molecular Biology, 2005, 32, 118-127.	2.9	68

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37	Opposite effects on human colon cancer cell proliferation of two dietary Thomsen-Friedenreich antigen-binding lectins. Journal of Cellular Physiology, 2001, 186, 282-287.	4.1	67
38	Proteoglycans: pericellular and cell surface multireceptors that integrate external stimuli in the mammary gland. Journal of Mammary Gland Biology and Neoplasia, 2001, 6, 253-273.	2.7	67
39	Influence of substitution pattern and cation binding on conformation and activity in heparin derivatives. Glycobiology, 2007, 17, 983-993.	2.5	66
40	Real-time monitoring of the development and stability of biofilms of Streptococcus mutans using the quartz crystal microbalance with dissipation monitoring. Biosensors and Bioelectronics, 2007, 23, 407-413.	10.1	66
41	Fibroblast Growth Factor-2 Stimulation of p42/44MAPKPhosphorylation and ÎºB Degradation Is Regulated by Heparan Sulfate/Heparin in Rat Mammary Fibroblasts. Journal of Biological Chemistry, 2000, 275, 33905-33910.	3.4	65
42	Identification of Heparin-binding Sites in Proteins by Selective Labeling. Molecular and Cellular Proteomics, 2009, 8, 2256-2265.	3.8	65
43	A Generic Approach to Monofunctionalized Protein-Like Gold Nanoparticles Based on Immobilized Metal Ion Affinity Chromatography. ChemBioChem, 2006, 7, 592-594.	2.6	64
44	S100P Dissociates Myosin IIA Filaments and Focal Adhesion Sites to Reduce Cell Adhesion and Enhance Cell Migration. Journal of Biological Chemistry, 2012, 287, 15330-15344.	3.4	64
45	Size and shape control for water-soluble magnetic cobalt nanoparticles using polymer ligands. Journal of Materials Chemistry, 2008, 18, 2453.	6.7	63
46	Large Conductance Changes in Peptide Single Molecule Junctions Controlled by pH. Journal of Physical Chemistry C, 2011, 115, 8361-8368.	3.1	60
47	Differential Modulation of Transcriptional Activity of Estrogen Receptors by Direct Protein-Protein Interactions with the T Cell Factor Family of Transcription Factors. Journal of Biological Chemistry, 2001, 276, 41675-41682.	3.4	59
48	The Crystal Structure at 2Ã... Resolution of the Ca2+-binding Protein S100P. Journal of Molecular Biology, 2003, 325, 785-794.	4.2	58
49	Hepatocyte Growth Factor/Scatter Factor Has Distinct Classes of Binding Site in Heparan Sulfate from Mammary Cellsâ€. Biochemistry, 1998, 37, 6003-6008.	2.5	56
50	In vitro effects of growth factors on lung hypoplasia in a model of congenital diaphragmatic hernia. Journal of Pediatric Surgery, 2000, 35, 914-922.	1.6	56
51	Photothermal Absorption Correlation Spectroscopy. ACS Nano, 2009, 3, 345-350.	14.6	55
52	Cytokines and growth factors cross-link heparan sulfate. Open Biology, 2015, 5, 150046.	3.6	55
53	Differential Scanning Fluorimetry Measurement of Protein Stability Changes upon Binding to Glycosaminoglycans: A Screening Test for Binding Specificity. Analytical Chemistry, 2010, 82, 3796-3802.	6.5	53
54	The Heparin/Heparan Sulfate Sequence That Interacts with Cyclophilin B Contains a 3-O-Sulfated N-Unsubstituted Glucosamine Residue. Journal of Biological Chemistry, 2007, 282, 24416-24429.	3.4	52

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55	Modulation of mammary development and programmed cell death by the frequency of milk removal in lactating goats. Journal of Physiology, 1999, 519, 885-900.	2.9	50
56	Neuropilins: a versatile partner of extracellular molecules that regulate development and disease. Frontiers in Bioscience - Landmark, 2008, Volume, 4339.	3.0	50
57	Glycosaminoglycan origin and structure revealed by multivariate analysis of NMR and CD spectra. Glycobiology, 2009, 19, 52-67.	2.5	50
58	Heparin binding preference and structures in the fibroblast growth factor family parallel their evolutionary diversification. Open Biology, 2016, 6, 150275.	3.6	50
59	Peristalsis of airway smooth muscle is developmentally regulated and uncoupled from hypoplastic lung growth. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L559-L565.	2.9	49
60	Orientation of Ordered Structures of Cytosine and Cytidine5â€²-Monophosphate Adsorbed at Au(110)/Liquid Interfaces. Physical Review Letters, 2006, 96, 086102.	7.8	49
61	Glycosaminoglycans Differentially Bind HARP and Modulate Its Biological Activity. Journal of Biological Chemistry, 1999, 274, 7741-7747.	3.4	48
62	Cell proliferation and apoptosis in experimental lung hypoplasia. Journal of Pediatric Surgery, 2000, 35, 129-133.	1.6	48
63	Mutually antagonistic actions of S100A4 and S100A1 on normal and metastatic phenotypes. Oncogene, 2005, 24, 1445-1454.	5.9	48
64	Enhanced inhibition of influenza virus infection by peptideâ€“noble-metal nanoparticle conjugates. Beilstein Journal of Nanotechnology, 2019, 10, 1038-1047.	2.8	47
65	Hepatocyte Growth Factor/Scatter Factor Binds to Small Heparin-derived Oligosaccharides and Stimulates the Proliferation of Human HaCaT Keratinocytes. Journal of Biological Chemistry, 2002, 277, 12456-12462.	3.4	46
66	Identification of cell types in the developing goat mammary gland. The Histochemical Journal, 1999, 31, 379-393.	0.6	44
67	Gold nanoparticles as advanced building blocks for nanoscale self-assembled systems. Journal of Materials Chemistry, 2011, 21, 12181.	6.7	44
68	Reflection Anisotropy Spectroscopy Study of the Adsorption of Sulfur-Containing Amino Acids at the Au(110)/Electrolyte Interface. Langmuir, 2006, 22, 3413-3420.	3.5	43
69	The basic C-terminal amino acids of calcium-binding protein S100A4 promote metastasis. Carcinogenesis, 2008, 29, 2259-2266.	2.8	43
70	Synthesis of basic fibroblast growth factor upon differentiation of rat mammary epithelial to myoepithelial-like cells in culture. Journal of Cellular Physiology, 1990, 144, 333-344.	4.1	42
71	Hepatocyte growth factor/scatter factor stimulates migration of rat mammary fibroblasts through both mitogen-activated protein kinase and phosphatidylinositol 3-kinase/Akt pathways. FEBS Journal, 2001, 268, 4423-4429.	0.2	42
72	Supramolecular Domains in Mixed Peptide Selfâ€Assembled Monolayers on Gold Nanoparticles. ChemBioChem, 2008, 9, 2127-2134.	2.6	42

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73	Extracellular interactome of the FGF receptorâ€“ligand system: Complexities and the relative simplicity of the worm. Developmental Dynamics, 2009, 238, 277-293.	1.8	42
74	The C-terminal region of S100A4 is important for its metastasis-inducing properties. Oncogene, 2005, 24, 4401-4411.	5.9	41
75	Appearance of basic fibroblast growth factor receptors upon differentiation of rat mammary epithelial to myoepithelial-like cells in culture. Journal of Cellular Physiology, 1990, 142, 108-116.	4.1	39
76	Pseudomonas aeruginosa Toxin ExoU as a Therapeutic Target in the Treatment of Bacterial Infections. Microorganisms, 2019, 7, 707.	3.6	39
77	Immunocytochemical identification of basic fibroblast growth factor in the developing rat mammary gland: variations in location are dependent on glandular structure and differentiation.. Journal of Histochemistry and Cytochemistry, 1993, 41, 887-898.	2.5	38
78	Spontaneous Propagating Calcium Waves Underpin Airway Peristalsis in Embryonic Rat Lung. American Journal of Respiratory Cell and Molecular Biology, 2005, 33, 153-160.	2.9	38
79	Proteinâ€“GAG interactions: new surface-based techniques, spectroscopies and nanotechnology probes. Biochemical Society Transactions, 2006, 34, 427-430.	3.4	38
80	The Activities of Heparan Sulfate and its Analogue Heparin are Dictated by Biosynthesis, Sequence, and Conformation. Connective Tissue Research, 2008, 49, 140-144.	2.3	38
81	Heparan Sulfate Phage Display Antibodies Identify Distinct Epitopes with Complex Binding Characteristics. Journal of Biological Chemistry, 2009, 284, 35621-35631.	3.4	38
82	Structural determinants of heparinâ€“transforming growth factor-Î²1 interactions and their effects on signaling. Glycobiology, 2015, 25, 1491-1504.	2.5	38
83	Facile synthesis of stable, water-soluble magnetic CoPt hollow nanostructures assisted by multi-thiol ligands. Journal of Materials Chemistry, 2009, 19, 6023.	6.7	37
84	Self-association of Calcium-binding Protein S100A4 and Metastasis. Journal of Biological Chemistry, 2010, 285, 914-922.	3.4	37
85	Stimulation of DNA Synthesis and Cell Proliferation of Human Mammary Myoepithelial-like Cells by Hepatocyte Growth Factor/Scatter Factor Depends on Heparan Sulfate Proteoglycans and Sustained Phosphorylation of Mitogen-activated Protein Kinases p42/44. Journal of Biological Chemistry, 2000, 275, 17094-17099.	3.4	36
86	Identification of alpha transforming growth factor as a possible local trophic agent for the mammary gland. Journal of Cellular Physiology, 1989, 141, 362-370.	4.1	35
87	A rapid procedure for production of human basic fibroblast growth factor in Escherichia coli cells. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1992, 1131, 307-310.	2.4	34
88	Hepatocyte growth factor/scatter factor and its interaction with heparan sulphate and dermatan sulphate. Biochemical Society Transactions, 2003, 31, 352-353.	3.4	33
89	The heparan sulfate co-receptor and the concentration of fibroblast growth factor-2 independently elicit different signalling patterns from the fibroblast growth factor receptor. Cell Communication and Signaling, 2010, 8, 14.	6.5	33
90	New tools for evaluating protein tyrosine sulfation: tyrosylprotein sulfotransferases (TPSTs) are novel targets for RAF protein kinase inhibitors. Biochemical Journal, 2018, 475, 2435-2455.	3.7	33

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91	Characterisation of membrane mimetics on a dual polarisation interferometer. Biosensors and Bioelectronics, 2006, 22, 627-632.	10.1	32
92	Site-specific interactions of copper(II) ions with heparin revealed with complementary (SRCD, NMR,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	32
93	HaloTag is an effective expression and solubilisation fusion partner for a range of fibroblast growth factors. PeerJ, 2015, 3, e1060.	2.0	32
94	Heterodimeric interaction and interfaces of S100A1 and S100P. Biochemical Journal, 2004, 382, 375-383.	3.7	31
95	Determination of the structure of adenine monolayers adsorbed at Au(110)/electrolyte interfaces using reflection anisotropy spectroscopy. Journal of Chemical Physics, 2009, 130, 044702.	3.0	31
96	Growth factors and their receptors in neoplastic mammary glands. Biomedicine and Pharmacotherapy, 1995, 49, 389-399.	5.6	30
97	Invasion of human colorectal carcinoma cells is promoted by endogenous basic fibroblast growth factor. International Journal of Cancer, 1997, 71, 390-395.	5.1	30
98	Stimulation of proliferation in human colon cancer cells by human monoclonal antibodies against the TF antigen (galactose Î²1-3 N-acetyl-galactosamine). , 1997, 73, 424-431.		30
99	Presentation of IFN-Î³ to Nitric Oxide-Producing Cells: A Novel Function for Mast Cells. Journal of Immunology, 2000, 164, 573-579.	0.8	30
100	Interactions of putative heparin-binding domains of basic fibroblast growth factor and its receptor, FGFR-1, with heparin using synthetic peptides. Glycoconjugate Journal, 1998, 15, 419-422.	2.7	29
101	Differential Regulation of FGF-1 and -2 Mitogenic Activity Is Related to Their Kinetics of Binding to Heparan Sulfate in MDA-MB-231 Human Breast Cancer Cells. Biochemical and Biophysical Research Communications, 2000, 267, 770-776.	2.1	29
102	Comparable stabilisation, structural changes and activities can be induced in FGF by a variety of HS and non-GAG analogues: implications for sequence-activity relationships. Organic and Biomolecular Chemistry, 2010, 8, 5390.	2.8	29
103	Inhibition of the mitogenic, angiogenic and tumorigenic activities of pleiotrophin by a synthetic peptide corresponding to its Câ€thrombospondin repeatâ€ domain. Journal of Cellular Physiology, 2008, 214, 250-259.	4.1	28
104	The heparin-binding proteome in normal pancreas and murine experimental acute pancreatitis. PLoS ONE, 2019, 14, e0217633.	2.5	27
105	Stem cells in breast epithelia. International Journal of Experimental Pathology, 1998, 79, 193-206.	1.3	25
106	Interaction of metastasis-inducing S100A4 protein in vivo by fluorescence lifetime imaging microscopy. European Biophysics Journal, 2005, 34, 19-27.	2.2	25
107	Fabrication of water-soluble magnetic nanoparticles by ligand-exchange with thermo-responsive polymers. Journal of Magnetism and Magnetic Materials, 2009, 321, 1421-1423.	2.3	25
108	The potential for circular dichroism as an additional facile and sensitive method of monitoring low-molecular-weight heparins and heparinoids. Thrombosis and Haemostasis, 2009, 102, 874-878.	3.4	25

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109	Sulfated polysaccharides interact with fibroblast growth factors and protect from denaturation. FEBS Open Bio, 2019, 9, 1477-1487.	2.3	25
110	Analysis of the fibroblast growth factor receptor (<scp>FGFR</scp>) signalling network with heparin as coreceptor: evidence for the expansion of the core <scp>FGFR</scp> signalling network. FEBS Journal, 2013, 280, 2260-2270.	4.7	24
111	Differential sub-nuclear distribution of hypoxia-inducible factors (HIF)-1 and -2 alpha impacts on their stability and mobility. Open Biology, 2016, 6, 160195.	3.6	24
112	Silver and gold nanoparticle-coated membranes for femtomole detection of small proteins and peptides by Dot and Western blot. Analytical Biochemistry, 2007, 362, 287-289.	2.4	23
113	The Cooperation of FGF Receptor and Klotho Is Involved in Excretory Canal Development and Regulation of Metabolic Homeostasis in Caenorhabditis elegans*. Journal of Biological Chemistry, 2011, 286, 5657-5666.	3.4	23
114	SimpleDSFviewer: A tool to analyze and view differential scanning fluorimetry data for characterizing protein thermal stability and interactions. Protein Science, 2020, 29, 19-27.	7.6	23
115	Fabrication of Carbohydrate Surfaces by Using Nonderivatised Oligosaccharides, and their Application to Measuring the Assembly of Sugarâ€“Protein Complexes. ChemBioChem, 2009, 10, 1218-1226.	2.6	22
116	Array-Based Functional Screening of Heparin Glycans. Chemistry and Biology, 2012, 19, 553-558.	6.0	22
117	Monovalent maleimide functionalization of gold nanoparticlesviacopper-free click chemistry. Chemical Communications, 2014, 50, 13157-13160.	4.1	22
118	Selectivity in glycosaminoglycan binding dictates the distribution and diffusion of fibroblast growth factors in the pericellular matrix. Open Biology, 2016, 6, 150277.	3.6	22
119	Mammary stem cells in normal development and cancer. , 1997, , 147-232.		22
120	Airway Smooth Muscle Dysfunction Precedes Teratogenic Congenital Diaphragmatic Hernia and May Contribute to Hypoplastic Lung Morphogenesis. American Journal of Respiratory Cell and Molecular Biology, 2006, 35, 571-578.	2.9	21
121	N-Glycosylation Regulates Fibroblast Growth Factor Receptor/EGL-15 Activity in Caenorhabditis elegans in Vivo. Journal of Biological Chemistry, 2009, 284, 33030-33039.	3.4	21
122	Photothermal raster image correlation spectroscopy of gold nanoparticles in solution and on live cells. Royal Society Open Science, 2015, 2, 140454.	2.4	21
123	Expression and purification of an FGF9 fusion protein in E. coli, and the effects of the FGF9 subfamily on human hepatocellular carcinoma cell proliferation and migration. Applied Microbiology and Biotechnology, 2017, 101, 7823-7835.	3.6	21
124	Ectopic production of heparin-binding growth factors and receptors for basic fibroblast growth factor by rat mammary epithelial cell lines derived from malignant metastatic tumours. International Journal of Cancer, 1993, 54, 629-635.	5.1	20
125	Adsorption of Calf Thymus DNA on Au(110) Studied by Reflection Anisotropy Spectroscopy. Langmuir, 2007, 23, 2078-2082.	3.5	20
126	Exogenous Recombinant Dimeric Neuropilin-1 Is Sufficient to Drive Angiogenesis. Journal of Biological Chemistry, 2011, 286, 12-23.	3.4	19

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127	Enhanced cellâ€“cell contact stability and decreased N-cadherin-mediated migration upon fibroblast growth factor receptor-N-cadherin cross talk. Oncogene, 2019, 38, 6283-6300.	5.9	19
128	High-level production of human acidic fibroblast growth factor in E. coli cells: Inhibition of DNA synthesis in rat mammary fibroblasts at high concentrations of growth factor. Biochemical and Biophysical Research Communications, 1990, 171, 963-971.	2.1	18
129	Attachment of glycosaminoglycan oligosaccharides to thiol-derivatised gold surfaces. Chemical Communications, 2004, , 2700.	4.1	18
130	Peptides as capping ligands for in situ synthesis of water soluble Co nanoparticles for bioapplications. Journal of Physics: Conference Series, 2005, 17, 70-76.	0.4	18
131	Novel â€˜phage display antibodies identify distinct heparan sulfate domains in developing mammalian lung. Pediatric Surgery International, 2007, 23, 411-417.	1.4	18
132	Heparan sulfate in lung morphogenesis: The elephant in the room. Birth Defects Research Part C: Embryo Today Reviews, 2010, 90, 32-44.	3.6	18
133	A basic peptide derived from the HARP C-terminus inhibits anchorage-independent growth of DU145 prostate cancer cells. Experimental Cell Research, 2007, 313, 4041-4050.	2.6	17
134	Detection of Antimycolic Acid Antibodies by Liposomal Biosensors. Methods in Enzymology, 2009, 464, 79-104.	1.0	17
135	New tools for carbohydrate sulfation analysis: heparan sulfate 2-O-sulfotransferase (HS2ST) is a target for small-molecule protein kinase inhibitors. Biochemical Journal, 2021, 475, 2417-2433.	3.7	17
136	Cations Modulate Polysaccharide Structure To Determine FGFâ^'FGFR Signaling: A Comparison of Signaling and Inhibitory Polysaccharide Interactions with FGF-1 in Solution. Biochemistry, 2009, 48, 4772-4779.	2.5	16
137	Features of Thiolated Ligands Promoting Resistance to Ligand Exchange in Self-Assembled Monolayers on Gold Nanoparticles. Australian Journal of Chemistry, 2012, 65, 266.	0.9	16
138	The heparin-binding protein interactome in pancreatic diseases. Pancreatology, 2013, 13, 598-604.	1.1	16
139	Partial mitigation of gold nanoparticle interactions with human lymphocytes by surface functionalization with a â€˜mixed matrixâ€™. Nanomedicine, 2014, 9, 2467-2479.	3.3	16
140	Inhibition of BACE1, the Î²-secretase implicated in Alzheimerâ€™s disease, by a chondroitin sulfate extract from Sardina pilchardus. Neural Regeneration Research, 2020, 15, 1546.	3.0	16
141	Rat Mammary Myoepithelial-Like Cells in Culture Possess Kinetically Distinct Low-Affinity Receptors for Fibroblast Growth Factor That Modulate Growth Stimulatory Responses. Growth Factors, 1992, 7, 27-39.	1.7	15
142	Nanoscale science: a big step towards the Holy Grail of single molecule biochemistry and molecular biology. Cellular and Molecular Life Sciences, 2004, 61, 1843-1849.	5.4	15
143	Optical Biosensor Techniques to Analyze Protein-Polysaccharide Interactions. , 2001, 171, 505-518.		14
144	Bipartite Design of a Self-Fibrillating Protein Copolymer with Nanopatterned Peptide Display Capabilities. Nano Letters, 2010, 10, 4533-4537.	9.1	14

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145	Characterisation of the interaction of neuropilin-1 with heparin and a heparan sulfate mimetic library of heparin-derived sugars. PeerJ, 2014, 2, e461.	2.0	14
146	Intracellular trafficking and release of intact edible mushroom lectin from HT29 human colon cancer cells. FEBS Journal, 2000, 267, 2122-2126.	0.2	13
147	Heparin and in-vitro experimental lung hypoplasia. Pediatric Surgery International, 2000, 16, 247-251.	1.4	13
148	The adsorption of bipyridine molecules on Au(110) as measured by reflection anisotropy spectroscopy. Journal of Physics Condensed Matter, 2004, 16, S4385-S4392.	1.8	13
149	Molecular Dynamics and Electrochemical Investigations of a pH-Responsive Peptide Monolayer. Journal of Physical Chemistry C, 2009, 113, 6792-6799.	3.1	13
150	Prevention of surface reconstruction at the Au(110)/electrolyte interface by the adsorption of cytosine. Journal of Chemical Physics, 2010, 132, 214708.	3.0	13
151	Synthesis of Silver Nanoparticles with Monovalently Functionalized Self-Assembled Monolayers. Australian Journal of Chemistry, 2012, 65, 275.	0.9	13
152	A pipeline to evaluate inhibitors of the Pseudomonas aeruginosa exotoxin U. Biochemical Journal, 2021, 478, 647-668.	3.7	13
153	High production in E. coli of biologically active recombinant human fibroblast growth factor 20 and its neuroprotective effects. Applied Microbiology and Biotechnology, 2016, 100, 3023-3034.	3.6	12
154	Structure and epitope distribution of heparan sulfate is disrupted in experimental lung hypoplasia: a glycobiological epigenetic cause for malformation?. BMC Developmental Biology, 2011, 11, 38.	2.1	11
155	Targeting Cell Membrane Lipid Rafts by Stoichiometric Functionalization of Gold Nanoparticles with a Sphingolipidâ€Binding Domain Peptide. Advanced Healthcare Materials, 2015, 4, 911-917.	7.6	11
156	Relationship of growth factors and differentiation in normal and neoplastic development of the mammary gland. Cancer Treatment and Research, 1991, 53, 47-78.	0.5	11
157	Detection of DNA hybridisation on a functionalised diamond surface using reflection anisotropy spectroscopy. Europhysics Letters, 2009, 85, 18006.	2.0	9
158	Use of a biosensor to determine the binding kinetics of five lectins for Galactosyl-N-acetylgalactosamine. Glycoconjugate Journal, 2001, 18, 565-569.	2.7	8
159	Ordered structures of DNA on Au(110). Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2582-2586.	0.8	8
160	Proliferation and migration activities of fibroblast growth factor-2 in endothelial cells are modulated by its direct interaction with heparin affin regulatory peptide. Biochimie, 2014, 107, 350-357.	2.6	8
161	Glycosaminoglycans from Litopenaeus vannamei Inhibit the Alzheimerâ€™s Disease Î² Secretase, BACE1. Marine Drugs, 2021, 19, 203.	4.6	8
162	Fundamental differences in model cell-surface polysaccharides revealed by complementary optical and spectroscopic techniques. Soft Matter, 2012, 8, 6521.	2.7	7

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163	Secretion of Transforming Growth Factor Alpha and Expression of its Receptor in Human Mammary Cell Lines. Growth Factors, 1994, 10, 281-287.	1.7	6
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