

Marit Nilsen-Hamilton

List of Publications by Year in descending order

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106
papers

3,785
citations

126907

33
h-index

138484

58
g-index

110
all docs

110
docs citations

110
times ranked

3783
citing authors

#	ARTICLE	IF	CITATIONS
1	Ligands with polyfluorophenyl moieties promote a local structural rearrangement in the Spinach2 and Broccoli aptamers that increases ligand affinities. <i>Rna</i> , 2022, 28, 865-877.	3.5	1
2	In-situ STEM Metallization of DNA Origami. <i>Microscopy and Microanalysis</i> , 2021, 27, 35-36.	0.4	0
3	Aptamer Applications in Neuroscience. <i>Pharmaceuticals</i> , 2021, 14, 1260.	3.8	12
4	Sampling Performance of Multiple Independent Molecular Dynamics Simulations of an RNA Aptamer. <i>ACS Omega</i> , 2020, 5, 20187-20201.	3.5	10
5	The Lipocalin2 Gene is Regulated in Mammary Epithelial Cells by NF κ B and C/EBP In Response to Mycoplasma. <i>Scientific Reports</i> , 2020, 10, 7641.	3.3	8
6	Imaging of Unstained DNA Origami Triangles with Electron Microscopy. <i>Small Methods</i> , 2019, 3, 1900393.	8.6	7
7	Characterization of the Photophysical Behavior of DFHBI Derivatives: Fluorogenic Molecules that Illuminate the Spinach RNA Aptamer. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2536-2545.	2.6	7
8	Unstained DNA Origami Imaging: Imaging of Unstained DNA Origami Triangles with Electron Microscopy (Small Methods 12/2019). <i>Small Methods</i> , 2019, 3, 1970039.	8.6	1
9	Common Secondary and Tertiary Structural Features of Aptamer-Ligand Interaction Shared by RNA Aptamers with Different Primary Sequences. <i>Molecules</i> , 2019, 24, 4535.	3.8	6
10	Label free thrombin detection in presence of high concentration of albumin using an aptamer-functionalized nanoporous membrane. <i>Biosensors and Bioelectronics</i> , 2019, 126, 88-95.	10.1	32
11	Fabrication of Metamaterial Building Blocks with Selective Photoreduction of Metal Ions Followed By Electroless Plating Onto DNA Origami Templates. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
12	In-Situ Nucleation, Growth and Evolution of Au Nanoparticles during Metallization of DNA Origami Visualized with HAADF-STEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 282-283.	0.4	0
13	Aptamer-enabled uptake of small molecule ligands. <i>Scientific Reports</i> , 2018, 8, 15712.	3.3	5
14	A 2 α -FY-RNA Motif Defines an Aptamer for Ebolavirus Secreted Protein. <i>Scientific Reports</i> , 2018, 8, 12373.	3.3	23
15	Creating metamaterial building blocks with directed photochemical metallization of silver onto DNA origami templates. <i>Nanotechnology</i> , 2018, 29, 355603.	2.6	19
16	Data on IL-10R neutralization-induced chronic colitis in Lipocalin 2 deficient mice on BALB/c background. <i>Data in Brief</i> , 2017, 11, 588-592.	1.0	2
17	Protein patterns template arrays of magnetic nanoparticles. <i>RSC Advances</i> , 2016, 6, 57048-57056.	3.6	4
18	Specificity and Ligand Affinities of the Cocaine Aptamer: Impact of Structural Features and Physiological NaCl. <i>Analytical Chemistry</i> , 2016, 88, 7715-7723.	6.5	36

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19	Aptamers in analytics. <i>Analyst, The</i> , 2016, 141, 1551-1568.	3.5	185
20	Light-up and FRET aptamer reporters; evaluating their applications for imaging transcription in eukaryotic cells. <i>Methods</i> , 2016, 98, 26-33.	3.8	36
21	Detecting cells in time varying intensity images in confocal microscopy for gene expression studies in living cells. , 2015, , .		0
22	Effect of Surface Hydrophobicity on the Function of the Immobilized Biomineralization Protein Mms6. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10284-10292.	3.7	6
23	Morphological Transformations in the Magnetite Biomineralizing Protein Mms6 in Iron Solutions: A Small-Angle X-ray Scattering Study. <i>Langmuir</i> , 2015, 31, 2818-2825.	3.5	25
24	Live-cell imaging of Pol II promoter activity to monitor gene expression with RNA IMAGETag reporters. <i>Nucleic Acids Research</i> , 2014, 42, e90-e90.	14.5	39
25	A Computational Study of Alternate SELEX. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 1455-1521.	1.9	9
26	An adaptable pentaloop defines a robust neomycin-B RNA aptamer with conditional ligand-bound structures. <i>Rna</i> , 2014, 20, 815-824.	3.5	12
27	Biomineralization proteins: from vertebrates to bacteria. <i>Frontiers in Biology</i> , 2013, 8, 234-246.	0.7	20
28	Aptamers: multifunctional molecules for biomedical research. <i>Journal of Molecular Medicine</i> , 2013, 91, 1333-1342.	3.9	97
29	Investigating the malleability of RNA aptamers. <i>Methods</i> , 2013, 63, 178-187.	3.8	14
30	Integrated Self-Assembly of the Mms6 Magnetosome Protein to Form an Iron-Responsive Structure. <i>International Journal of Molecular Sciences</i> , 2013, 14, 14594-14606.	4.1	30
31	Imaging promoter activity to monitor gene expression using Intracellular Multiaptamer Genetic tag (IMAGETag). <i>FASEB Journal</i> , 2013, 27, 576.3.	0.5	0
32	Synergistic and Multidimensional Regulation of Plasminogen Activator Inhibitor Type 1 Expression by Transforming Growth Factor Type β^2 and Epidermal Growth Factor*. <i>Journal of Biological Chemistry</i> , 2012, 287, 12520-12528.	3.4	5
33	A discrete dynamical system arising in molecular biology. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2012, 17, 2091-2151.	0.9	4
34	Self-Assembly and Biphasic Iron-Binding Characteristics of Mms6, A Bacterial Protein That Promotes the Formation of Superparamagnetic Magnetite Nanoparticles of Uniform Size and Shape. <i>Biomacromolecules</i> , 2012, 13, 98-105.	5.4	90
35	An RNA Aptamer-Based Microcantilever Sensor To Detect the Inflammatory Marker, Mouse Lipocalin-2. <i>Analytical Chemistry</i> , 2012, 84, 8763-8770.	6.5	28
36	Interfacial Properties and Iron Binding to Bacterial Proteins That Promote the Growth of Magnetite Nanocrystals: X-ray Reflectivity and Surface Spectroscopy Studies. <i>Langmuir</i> , 2012, 28, 4274-4282.	3.5	28

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37	A mathematical model for selective differentiation of neural progenitor cells on micropatterned polymer substrates. <i>Mathematical Biosciences</i> , 2012, 238, 65-79.	1.9	3
38	Identification of Fluorescent Compounds with Non-Specific Binding Property via High Throughput Live Cell Microscopy. <i>PLoS ONE</i> , 2012, 7, e28802.	2.5	6
39	Aptamer Functionalized Microcantilever Sensors for Cocaine Detection. <i>Langmuir</i> , 2011, 27, 14696-14702.	3.5	49
40	ICGA-PSO-ELM Approach for Accurate Multiclass Cancer Classification Resulting in Reduced Gene Sets in Which Genes Encoding Secreted Proteins Are Highly Represented. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011, 8, 452-463.	3.0	93
41	Lipocalin-2-loaded amphiphilic polyanhydride microparticles accelerate cell migration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 1237-52.	3.5	8
42	A Mathematical Analysis of Multiple-Target Selex. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 1623-1665.	1.9	17
43	Astrocyte-derived interleukin-6 promotes specific neuronal differentiation of neural progenitor cells from adult hippocampus. <i>Journal of Neuroscience Research</i> , 2010, 88, 2798-2809.	2.9	76
44	New effective inhibitors of the Abelson kinase. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 6316-6321.	3.0	10
45	Parity is associated with an expanded macrophage population in the mammary gland. <i>International Journal of Oncology</i> , 2010, 37, 1195-202.	3.3	7
46	Mouse lipocalin-2 aptamer: an RNA probe for molecular discrimination. <i>FASEB Journal</i> , 2010, 24, 499.13.	0.5	0
47	EGF cooperates with TGF β 2 to regulate PAI-1 expression by a synergistic increase in transcription and stabilization of mRNA. <i>FASEB Journal</i> , 2010, 24, 1b71.	0.5	0
48	α 3 β 1 integrin in epidermis promotes wound angiogenesis and keratinocyte-to-endothelial-cell crosstalk through the induction of MRP3. <i>Journal of Cell Science</i> , 2009, 122, 1778-1787.	2.0	80
49	Pancreatic secretory trypsin inhibitor is a major motogenic and protective factor in human breast milk. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G697-G703.	3.4	25
50	Computational and Experimental Analyses Converge to Reveal a Coherent Yet Malleable Aptamer Structure That Controls Chemical Reactivity. <i>Journal of the American Chemical Society</i> , 2009, 131, 14747-14755.	13.7	14
51	Differential surface stress sensor for detection of chemical and biological species. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	9
52	Fluorinated Analogs of Malachite Green: Synthesis and Toxicity. <i>Molecules</i> , 2008, 13, 986-994.	3.8	27
53	Controlling a Chemical Reaction with an Aptamer. <i>FASEB Journal</i> , 2008, 22, 1056.2.	0.5	0
54	Cobalt Ferrite Nanocrystals: Out-Performing Magnetotactic Bacteria. <i>ACS Nano</i> , 2007, 1, 228-233.	14.6	86

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55	Protein-Mediated Synthesis of Uniform Superparamagnetic Magnetite Nanocrystals. <i>Advanced Functional Materials</i> , 2007, 17, 951-957.	14.9	154
56	A mathematical analysis of SELEX. <i>Computational Biology and Chemistry</i> , 2007, 31, 11-35.	2.3	60
57	Acute endotoxemia is associated with upregulation of lipocalin 24p3/Lcn2 in lung and liver. <i>Experimental and Molecular Pathology</i> , 2007, 83, 177-187.	2.1	94
58	A standardized nomenclature for the mouse and rat prolactin superfamilies. <i>Mammalian Genome</i> , 2007, 18, 154-156.	2.2	14
59	A mathematical model for the onset of avascular tumor growth in response to the loss of p53 function. <i>Cancer Informatics</i> , 2007, 2, 163-88.	1.9	3
60	Effects of Mouse and Human Lipocalin Homologues 24p3/lcn2 and Neutrophil Gelatinase-Associated Lipocalin on Gastrointestinal Mucosal Integrity and Repair. <i>Gastroenterology</i> , 2006, 131, 809-817.	1.3	90
61	A Mathematical Model for the Onset of Avascular Tumor Growth in Response to the Loss of P53 Function. <i>Cancer Informatics</i> , 2006, 2, 117693510600200.	1.9	3
62	A Mathematical Model for the Regulation of Tumor Dormancy Based on Enzyme Kinetics. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 1495-1526.	1.9	13
63	Effects of dexamethazone on LPS-induced activation and migration of mouse dendritic cells revealed by a genome-wide transcriptional analysis. <i>European Journal of Immunology</i> , 2006, 36, 1504-1515.	2.9	51
64	Expression of SIP24 in the Peripartum and Postpartum Rat Uterus. <i>Connective Tissue Research</i> , 2005, 46, 235-241.	2.3	4
65	Allosteric Aptamers: Targeted Reversibly Attenuated Probes. <i>Biochemistry</i> , 2005, 44, 7945-7954.	2.5	28
66	Encapsulation, stabilization, and release of BSA-FITC from polyanhydride microspheres. <i>Journal of Controlled Release</i> , 2004, 100, 97-109.	9.9	114
67	Tissue Involution and the Acute Phase Response. <i>Annals of the New York Academy of Sciences</i> , 2003, 995, 94-108.	3.8	69
68	A Mathematical Model for the Role of Cell Signal Transduction in the Initiation and Inhibition of Angiogenesis. <i>Growth Factors</i> , 2003, 20, 155-175.	1.7	37
69	Synergistic regulation of the acute phase protein SIP24/24p3 by glucocorticoid and pro-inflammatory cytokines. <i>Acta Physiologica Sinica</i> , 2003, 55, 525-9.	0.5	5
70	High expression in involuting reproductive tissues of uterocalin/24p3, a lipocalin and acute phase protein. <i>Biochemical Journal</i> , 2002, 367, 271-277.	3.7	69
71	Allosteric Hammerhead Ribozyme TRAPs. <i>Biochemistry</i> , 2002, 41, 6588-6594.	2.5	62
72	Mathematical Modelling of Tumour Angiogenesis and the Action of Angiostatin as a Protease Inhibitor. <i>Journal of Theoretical Medicine</i> , 2002, 4, 133-145.	0.5	6

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73	Mathematical modeling of the onset of capillary formation initiating angiogenesis. Journal of Mathematical Biology, 2001, 42, 195-238.	1.9	127
74	Mathematical Modeling of Capillary Formation and Development in Tumor Angiogenesis: Penetration into the Stroma. Bulletin of Mathematical Biology, 2001, 63, 801-863.	1.9	229
75	Mrp3, a Mitogen-Regulated Protein/Proliferin Gene Expressed in Wound Healing and in Hair Follicles*. Endocrinology, 2001, 142, 2129-2137.	2.8	34
76	Mrp3, a Mitogen-Regulated Protein/Proliferin Gene Expressed in Wound Healing and in Hair Follicles. Endocrinology, 2001, 142, 2129-2137.	2.8	14
77	A mathematical model for the roles of pericytes and macrophages in the initiation of angiogenesis. I. The role of protease inhibitors in preventing angiogenesis. Mathematical Biosciences, 2000, 168, 77-115.	1.9	145
78	Western Blotting. , 2000, , 217-238.		0
79	Signaling between the Placenta and the Uterus Involving the Mitogen-Regulated Protein/Proliferins1. Endocrinology, 1999, 140, 5239-5249.	2.8	20
80	A unique bFGF-responsive transcriptional element. Gene, 1999, 237, 81-90.	2.2	4
81	Signaling between the Placenta and the Uterus Involving the Mitogen-Regulated Protein/Proliferins. Endocrinology, 1999, 140, 5239-5249.	2.8	5
82	Uterocalin: A mouse acute phase protein expressed in the uterus around birth. Molecular Reproduction and Development, 1997, 46, 507-514.	2.0	69
83	Identification of a New Acute Phase Protein. Journal of Biological Chemistry, 1995, 270, 22565-22570.	3.4	232
84	Cloning of the mink plasminogen activator inhibitor type-1 messenger RNA: An mRNA with a short half life. Gene, 1995, 162, 303-308.	2.2	7
85	Regulation of the expression of mitogen-regulated protein (MRP; proliferin) and cathepsin L in cultured cells and in the murine placenta. Molecular and Cellular Endocrinology, 1991, 77, 115-122.	3.2	21
86	Basic fibroblast growth factor induces 3T3 fibroblasts to synthesize and secrete a cyclophilin-like protein and β_2 -microglobulin. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1095, 145-152.	4.1	48
87	Developmental expression of cathepsin L and c-rasHa in the mouse placenta. Molecular Reproduction and Development, 1991, 30, 285-292.	2.0	35
88	Regulation of the production of a prolactin-like protein (MRP/PLF) in 3T3 cells and in the mouse placenta. Molecular and Cellular Endocrinology, 1988, 56, 179-190.	3.2	16
89	[39] Detection of proteins induced by growth regulators. Methods in Enzymology, 1987, 147, 427-444.	1.0	16
90	Relationship between mitogen-regulated protein (MRP) and proliferin (PLF), a member of the prolactin/growth hormone family. Gene, 1987, 51, 163-170.	2.2	26

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91	Relation between the regulation of DNA synthesis and the production of two secreted glycoproteins by 12-O-tetradecanoylphorbol-13-acetate in 3T3 cells and in phorbol ester nonresponsive 3T3 variants. <i>Journal of Cellular Physiology</i> , 1986, 129, 151-158.	4.1	18
92	Superinduction by cycloheximide of mitogen-induced secreted proteins produced by Balb/c 3T3 cells. <i>Journal of Cellular Physiology</i> , 1985, 123, 201-208.	4.1	55
93	Prostaglandins E1 and E2 interact with prostaglandin F2alpha to regulate initiation of DNA replication and cell division in swiss 3T3 cells.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982, 79, 4992-4996.	7.1	66
94	Synergistic stimulation of S6 ribosomal protein phosphorylation and DNA synthesis by epidermal growth factor and insulin in quiescent 3T3 cells. <i>Cell</i> , 1982, 31, 237-242.	28.9	62
95	Rapid selective stimulation by growth factors of the incorporation by Balbc 3T3 cells of [35S]methionine into a glycoprotein and five superinducible proteins. <i>Biochemical and Biophysical Research Communications</i> , 1982, 108, 158-166.	2.1	38
96	Stimulation of the release of two glycoproteins from mouse 3T3 cells by growth factors and by agents that increase intralysosomal pH. <i>Biochemical and Biophysical Research Communications</i> , 1981, 101, 411-417.	2.1	58
97	Rapid and efficient method for analyzing phosphorylation of the S6 ribosomal protein in 32Pi-labeled, tissue culture cells. <i>Analytical Biochemistry</i> , 1981, 115, 438-449.	2.4	24
98	Insulin and growth factors stimulate rapid posttranslational changes in glucose transport in ovarian granulosa cells. <i>Journal of Cellular Physiology</i> , 1981, 108, 15-24.	4.1	28
99	Conversion of monensin from an ionophore to an inhibitor of Na+ uptake by SV3T3 membrane vesicles as a function of Na+ concentration. <i>Biochemical and Biophysical Research Communications</i> , 1980, 95, 140-147.	2.1	4
100	Selective stimulation by mitogens of incorporation of 35S-methionine into a family of proteins released into the medium by 3T3 cells. <i>Cell</i> , 1980, 20, 19-28.	28.9	107
101	Serum-dependent regulation of ?-aminoisobutyric acid uptake in bovine granulosa cells. <i>Journal of Cellular Physiology</i> , 1979, 98, 491-502.	4.1	12
102	Fibroblast growth factor causes an early increase in phosphorylation of a membrane protein in quiescent 3T3 cells. <i>Nature</i> , 1979, 279, 444-446.	27.8	28
103	Inhibition of $\hat{1}\pm$ -aminoisobutyric acid transport in membrane vesicles from mouse fibroblasts after phosphorylation by cyclic AMP-dependent protein kinase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1979, 588, 322-331.	2.4	12
104	Uptake of ?-aminoisobutyric acid and phosphate by membrane vesicles derived from growing and quiescent fibroblasts. <i>Journal of Cellular Physiology</i> , 1976, 89, 795-800.	4.1	19
105	Aptamers for Diagnostics with Applications for Infectious Diseases. , 0, , .		11
106	Aptamers for Infectious Disease Diagnosis. , 0, , .		3