

Peter Nagy

List of Publications by Year in descending order

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87
papers

4,703
citations

172207

29
h-index

98622

67
g-index

91
all docs

91
docs citations

91
times ranked

6150
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum dot ligands provide new insights into erbB/HER receptor-mediated signal transduction. <i>Nature Biotechnology</i> , 2004, 22, 198-203.	9.4	796
2	Dynamic, yet structured: The cell membrane three decades after the Singer-Nicolson model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8053-8058.	3.3	472
3	Lipopolysaccharide and ceramide docking to CD14 provokes ligand-specific receptor clustering in rafts. <i>European Journal of Immunology</i> , 2001, 31, 3153-3164.	1.6	408
4	Decreased accessibility and lack of activation of ErbB2 in JIMT-1, a herceptin-resistant, MUC4-expressing breast cancer cell line. <i>Cancer Research</i> , 2005, 65, 473-82.	0.4	313
5	Trastuzumab causes antibody-dependent cellular cytotoxicity-mediated growth inhibition of submacroscopic JIMT-1 breast cancer xenografts despite intrinsic drug resistance. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 2065-2072.	1.9	198
6	Lipid rafts and the local density of ErbB proteins influence the biological role of homo- and heteroassociations of ErbB2. <i>Journal of Cell Science</i> , 2002, 115, 4251-4262.	1.2	167
7	Understanding FRET as a Research Tool for Cellular Studies. <i>International Journal of Molecular Sciences</i> , 2015, 16, 6718-6756.	1.8	158
8	Distribution of resting and ligand-bound ErbB1 and ErbB2 receptor tyrosine kinases in living cells using number and brightness analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16524-16529.	3.3	154
9	Imaging molecular interactions in cells by dynamic and static fluorescence anisotropy (rFLIM and) Tj ETQq1 1 0.784314 rgBT /Overload	1.6	145
10	Hyaluronan-induced masking of ErbB2 and CD44-enhanced trastuzumab internalisation in trastuzumab resistant breast cancer. <i>European Journal of Cancer</i> , 2007, 43, 2423-2433.	1.3	127
11	Differential Association of CD45 Isoforms with CD4 and CD8 Regulates the Actions of Specific Pools of p56lck Tyrosine Kinase in T Cell Antigen Receptor Signal Transduction. <i>Journal of Biological Chemistry</i> , 2002, 277, 1912-1918.	1.6	99
12	Small interfering RNAs suppress the expression of endogenous and GFP-fused epidermal growth factor receptor (erbB1) and induce apoptosis in erbB1-overexpressing cells. <i>Experimental Cell Research</i> , 2003, 285, 39-49.	1.2	93
13	The Effect of Fluorophore Conjugation on Antibody Affinity and the Photophysical Properties of Dyes. <i>Biophysical Journal</i> , 2018, 114, 688-700.	0.2	93
14	Chemoprevention of Breast Cancer by Dietary Polyphenols. <i>Molecules</i> , 2015, 20, 22578-22620.	1.7	91
15	Intensity-based energy transfer measurements in digital imaging microscopy. <i>European Biophysics Journal</i> , 1998, 27, 377-389.	1.2	86
16	Long wavelength fluorophores and cell-by-cell correction for autofluorescence significantly improves the accuracy of flow cytometric energy transfer measurements on a dual-laser benchtop flow cytometer. <i>Cytometry</i> , 2002, 48, 124-135.	1.8	67
17	Quantitative Characterization of the Large-Scale Association of ErbB1 and ErbB2 by Flow Cytometric Homo-FRET Measurements. <i>Biophysical Journal</i> , 2008, 95, 2086-2096.	0.2	59
18	Complexity of signal transduction mediated by ErbB2: Clues to the potential of receptor-targeted cancer therapy. <i>Pathology and Oncology Research</i> , 1999, 5, 255-271.	0.9	50

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19	Novel calibration method for flow cytometric fluorescence resonance energy transfer measurements between visible fluorescent proteins. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 67A, 86-96.	1.1	50
20	EGF-induced redistribution of erbB2 on breast tumor cells: Flow and image cytometric energy transfer measurements. , 1998, 32, 120-131.		48
21	Molecular Mechanisms and Bioavailability of Polyphenols in Prostate Cancer. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1062.	1.8	46
22	Alterations in the properties of the cell membrane due to glycosphingolipid accumulation in a model of Gaucher disease. <i>Scientific Reports</i> , 2018, 8, 157.	1.6	45
23	Comprehensive analysis of how experimental parameters affect H2S measurements by the monobromobimane method. <i>Free Radical Biology and Medicine</i> , 2019, 136, 146-158.	1.3	44
24	Associations of ErbB2, β 1-integrin and lipid rafts on Herceptin (Trastuzumab) resistant and sensitive tumor cell lines. <i>Cancer Letters</i> , 2005, 227, 201-212.	3.2	42
25	Trastuzumab decreases the number of circulating and disseminated tumor cells despite trastuzumab resistance of the primary tumor. <i>Cancer Letters</i> , 2008, 260, 198-208.	3.2	42
26	Two-sided fluorescence resonance energy transfer for assessing molecular interactions of up to three distinct species in confocal microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 209-219.	1.1	37
27	EGFR and ErbB2 are functionally coupled to CD44 and regulate shedding, internalization and motogenic effect of CD44. <i>Cancer Letters</i> , 2008, 263, 231-242.	3.2	35
28	Comparative analysis of fluorescence resonance energy transfer (FRET) and proximity ligation assay (PLA). <i>Proteomics</i> , 2011, 11, 2063-2070.	1.3	35
29	Apoptosis of murine thymocytes induced by extracellular ATP is dose- and cytosolic pH-dependent. <i>Immunology Letters</i> , 2000, 72, 23-30.	1.1	33
30	The CD45 tyrosine phosphatase regulates Campath-1H (CD52)-induced TCR-dependent signal transduction in human T cells. <i>International Immunology</i> , 2000, 12, 505-516.	1.8	33
31	Applications of fluorescence resonance energy transfer for mapping biological membranes. <i>Reviews in Molecular Biotechnology</i> , 2002, 82, 251-266.	2.9	27
32	Heme Induces Endoplasmic Reticulum Stress (HIER Stress) in Human Aortic Smooth Muscle Cells. <i>Frontiers in Physiology</i> , 2018, 9, 1595.	1.3	26
33	Biotin-Ligand Complexes With Streptavidin Quantum Dots for In Vivo Cell Labeling of Membrane Receptors. , 2007, 374, 69-80.		25
34	Ion-channel activities regulate transmembrane signaling in thymocyte apoptosis and T-cell activation. <i>Immunology Letters</i> , 1995, 44, 91-95.	1.1	24
35	Interactions of retinoids with the ABC transporters P-glycoprotein and Breast Cancer Resistance Protein. <i>Scientific Reports</i> , 2017, 7, 41376.	1.6	24
36	Cytometry of raft and caveola membrane microdomains: From flow and imaging techniques to high throughput screening assays. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 599-614.	1.1	23

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37	The Dipole Potential Modifies the Clustering and Ligand Binding Affinity of ErbB Proteins and Their Signaling Efficiency. <i>Scientific Reports</i> , 2016, 6, 35850.	1.6	21
38	Signal transduction of erbB receptors in trastuzumab (Herceptin) sensitive and resistant cell lines: Local stimulation using magnetic microspheres as assessed by quantitative digital microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 67A, 161-171.	1.1	19
39	Measuring FRET in Flow Cytometry and Microscopy. <i>Current Protocols in Cytometry</i> , 2006, 38, Unit12.8.	3.7	18
40	The dipole potential correlates with lipid raft markers in the plasma membrane of living cells. <i>Journal of Lipid Research</i> , 2017, 58, 1681-1691.	2.0	18
41	Flow Cytometric FRET Analysis of Protein Interactions. <i>Methods in Molecular Biology</i> , 2018, 1678, 393-419.	0.4	17
42	It Takes More than Two to Tango: Complex, Hierarchical, and Membrane-Modulated Interactions in the Regulation of Receptor Tyrosine Kinases. <i>Cancers</i> , 2022, 14, 944.	1.7	17
43	Coclustering of ErbB1 and ErbB2 Revealed by FRET-Sensitized Acceptor Bleaching. <i>Biophysical Journal</i> , 2010, 99, 105-114.	0.2	16
44	T-cell synapse formation depends on antigen recognition but not CD3 interaction: Studies with TCR- η , a candidate transgene for TCR gene therapy. <i>European Journal of Immunology</i> , 2011, 41, 1288-1297.	1.6	16
45	Maximum likelihood estimation of FRET efficiency and its implications for distortions in pixelwise calculation of FRET in microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014, 85, 942-952.	1.1	16
46	rFRET: A comprehensive, Matlab-based program for analyzing intensity-based ratiometric microscopic FRET experiments. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016, 89, 376-384.	1.1	16
47	Flow Cytometric FRET Analysis of Protein Interaction. <i>Methods in Molecular Biology</i> , 2011, 699, 371-392.	0.4	15
48	Binding of Trastuzumab to ErbB2 Is Inhibited by a High Pericellular Density of Hyaluronan. <i>Journal of Histochemistry and Cytochemistry</i> , 2012, 60, 567-575.	1.3	15
49	MHC I Expression Regulates Co-clustering and Mobility of Interleukin-2 and -15 Receptors in T Cells. <i>Biophysical Journal</i> , 2016, 111, 100-112.	0.2	15
50	Epigallocatechin 3-O-gallate Induces 67 kDa Laminin Receptor-Mediated Cell Death Accompanied by Downregulation of ErbB Proteins and Altered Lipid Raft Clustering in Mammary and Epidermoid Carcinoma Cells. <i>Journal of Natural Products</i> , 2014, 77, 250-257.	1.5	14
51	Quo vadis FRET? FRET's method in the era of superresolution. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 032003.	1.1	14
52	ErbB protein modifications are secondary to severe cell membrane alterations induced by elisidepsin treatment. <i>European Journal of Pharmacology</i> , 2011, 667, 91-99.	1.7	13
53	Determining the target of membrane sterols on voltage-gated potassium channels. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 312-325.	1.2	13
54	Biphasic Effect of Extracellular ATP on the Membrane Potential of Mouse Thymocytes. <i>Biochemical and Biophysical Research Communications</i> , 1993, 191, 378-384.	1.0	12

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55	Signaling revealed by mapping molecular interactions. <i>Clinical and Applied Immunology Reviews</i> , 2002, 2, 169-186.	0.4	12
56	The density of GM1-enriched lipid rafts correlates inversely with the efficiency of transfection mediated by cationic liposomes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 650-657.	1.1	12
57	Hypoxia Reduces the Efficiency of Elisidepsin by Inhibiting Hydroxylation and Altering the Structure of Lipid Rafts. <i>Marine Drugs</i> , 2013, 11, 4858-4875.	2.2	11
58	Homo- and Heteroassociations Drive Activation of ErbB3. <i>Biophysical Journal</i> , 2019, 117, 1935-1947.	0.2	11
59	Comprehensive Model for Epidermal Growth Factor Receptor Ligand Binding Involving Conformational States of the Extracellular and the Kinase Domains. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 776.	1.8	11
60	An ω -3, but Not an ω -6 Polyunsaturated Fatty Acid Decreases Membrane Dipole Potential and Stimulates Endo-Lysosomal Escape of Penetratin. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 647300.	1.8	11
61	Statin-boosted cellular uptake and endosomal escape of penetratin due to reduced membrane dipole potential. <i>British Journal of Pharmacology</i> , 2021, 178, 3667-3681.	2.7	11
62	Distinct Spatial Relationship of the Interleukin-9 Receptor with Interleukin-2 Receptor and Major Histocompatibility Complex Glycoproteins in Human T Lymphoma Cells. <i>ChemPhysChem</i> , 2014, 15, 3969-3978.	1.0	10
63	Epigallocatechin-3-gallate alleviates the malignant phenotype in A-431 epidermoid and SK-BR-3 breast cancer cell lines. <i>International Journal of Food Sciences and Nutrition</i> , 2018, 69, 584-597.	1.3	10
64	Cyclodextrins Exert a Ligand-like Current Inhibitory Effect on the KV1.3 Ion Channel Independent of Membrane Cholesterol Extraction. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 735357.	1.6	9
65	Fluorescent lipid probes 12-AS and TMA-DPH report on selective, purinergically induced fluidity changes in plasma membranes of lymphoid cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997, 40, 120-125.	1.7	8
66	Reducing the Detrimental Effects of Saturation Phenomena in FRET Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 6378-6382.	3.2	8
67	Principles of Resonance Energy Transfer. <i>Current Protocols in Cytometry</i> , 2006, 38, Unit1.12.	3.7	7
68	ICAM-1 inhibits the homocluster formation of MHC-I in colon carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 758-763.	1.0	7
69	The role of supramolecular protein complexes and membrane potential in transmembrane signaling processes of lymphocytes. <i>Immunology Letters</i> , 2006, 104, 53-58.	1.1	7
70	The flow of events: How the sequence of molecular interactions is seen by the latest, user-friendly high throughput flow cytometric FRET. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016, 89, 881-885.	1.1	7
71	Analysis of cell surface molecular distributions and cellular signaling by flow cytometry. <i>Journal of Fluorescence</i> , 1994, 4, 303-314.	1.3	6
72	Seeing through protein complexes by high-throughput FRET. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 388-389.	1.1	6

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73	In Vivo Imaging Using Quantum Dot- ⁶⁴ Conjugated Probes. <i>Current Protocols in Cell Biology</i> , 2007, 36, Unit 25.1.	2.3	5
74	Proximity or no proximity: That is the question- ⁶⁵ But the answer is more complex. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 813-815.	1.1	5
75	Minimum degree of overlap between IL- ⁶⁶ R and IL- ⁶⁷ R on human T lymphoma cells: A quantitative CLSM and FRET analysis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 1106-1117.	1.1	5
76	I Am the Alpha and the - ⁶⁸ Gamma, and the G. Calibration of Intensity- ⁶⁹ Based FRET Measurements. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 369-371.	1.1	4
77	Opposing Effects of Chelidonine on Tyrosine and Serine Phosphorylation of STAT3 in Human Uveal Melanoma Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12974.	1.8	4
78	Impaired Immunosuppressive Effect of Bronchoalveolar Mesenchymal Stem Cells in Hypersensitivity Pneumonitis: Preliminary Findings. <i>Cytometry Part B - Clinical Cytometry</i> , 2018, 94, 363-368.	0.7	3
79	Biophysical experiments reveal a protective role of protein phosphatase Z1 against oxidative damage of the cell membrane in <i>Candida albicans</i> . <i>Free Radical Biology and Medicine</i> , 2021, 176, 222-227.	1.3	3
80	Characterization of the Effect of Sphingolipid Accumulation on Membrane Compactness, Dipole Potential, and Mobility of Membrane Components. <i>Methods in Molecular Biology</i> , 2021, 2187, 283-301.	0.4	3
81	Differences in uptake, storage and release properties between inositol trisphosphate-sensitive and -insensitive Ca ²⁺ , stores in permeabilized pancreatic acinar cells. <i>Cell Calcium</i> , 1995, 17, 85-96.	1.1	2
82	Novel Single Cell Fluorescence Approaches in the Investigation of Signaling at the Cellular Level. , 2005, , 33-70.		2
83	Mapping and Immunomodulation of the Cell Surface Protein Architecture with Therapeutic Implications: Fluorescence Is a Key Tool of Solution. <i>Reviews in Fluorescence</i> , 2011, , 193-223.	0.5	1
84	Nucleosome destabilization by polyamines. <i>Archives of Biochemistry and Biophysics</i> , 2022, 722, 109184.	1.4	1
85	How to avoid bleeding in F- ⁷⁰ rster resonance energy transfer. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2012, 81A, 108-109.	1.1	0
86	Maximum Likelihood Estimation of FRET Efficiency. <i>Biophysical Journal</i> , 2014, 106, 204a.	0.2	0
87	Detection of protein interactions by Subcellular Localization Assay. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 657-658.	1.1	0