Peter Nagy

List of Publications by Year in descending order

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87 papers	4,703 citations	172457 29 h-index	98798 67 g-index
91 all docs	91 docs citations	91 times ranked	6150 citing authors

#	Article	IF	Citations
1	It Takes More than Two to Tango: Complex, Hierarchal, and Membrane-Modulated Interactions in the Regulation of Receptor Tyrosine Kinases. Cancers, 2022, 14, 944.	3.7	17
2	Nucleosome destabilization by polyamines. Archives of Biochemistry and Biophysics, 2022, 722, 109184.	3.0	1
3	I Am the Alpha and the â€¦ Gamma, and the G. Calibration of Intensityâ€Based FRET Measurements. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2021, 99, 369-371.	1.5	4
4	An Ï‰-3, but Not an Ï‰-6 Polyunsaturated Fatty Acid Decreases Membrane Dipole Potential and Stimulates Endo-Lysosomal Escape of Penetratin. Frontiers in Cell and Developmental Biology, 2021, 9, 647300.	3.7	11
5	Statinâ€boosted cellular uptake and endosomal escape of penetratin due to reduced membrane dipole potential. British Journal of Pharmacology, 2021, 178, 3667-3681.	5.4	11
6	Biophysical experiments reveal a protective role of protein phosphatase Z1 against oxidative damage of the cell membrane in Candida albicans. Free Radical Biology and Medicine, 2021, 176, 222-227.	2.9	3
7	Characterization of the Effect of Sphingolipid Accumulation on Membrane Compactness, Dipole Potential, and Mobility of Membrane Components. Methods in Molecular Biology, 2021, 2187, 283-301.	0.9	3
8	Cyclodextrins Exert a Ligand-like Current Inhibitory Effect on the KV1.3 Ion Channel Independent of Membrane Cholesterol Extraction. Frontiers in Molecular Biosciences, 2021, 8, 735357.	3.5	9
9	Opposing Effects of Chelidonine on Tyrosine and Serine Phosphorylation of STAT3 in Human Uveal Melanoma Cells. International Journal of Molecular Sciences, 2021, 22, 12974.	4.1	4
10	Comprehensive Model for Epidermal Growth Factor Receptor Ligand Binding Involving Conformational States of the Extracellular and the Kinase Domains. Frontiers in Cell and Developmental Biology, 2020, 8, 776.	3.7	11
11	Quo vadis FRET? FÃ¶rsterâ€™s method in the era of superresolution. Methods and Applications in Fluorescence, 2020, 8, 032003.	2.3	14
12	Homo- and Heteroassociations Drive Activation ofÂErbB3. Biophysical Journal, 2019, 117, 1935-1947.	0.5	11
13	Reducing the Detrimental Effects of Saturation Phenomena in FRET Microscopy. Analytical Chemistry, 2019, 91, 6378-6382.	6.5	8
14	Molecular Mechanisms and Bioavailability of Polyphenols in Prostate Cancer. International Journal of Molecular Sciences, 2019, 20, 1062.	4.1	46
15	Comprehensive analysis of how experimental parameters affect H2S measurements by the monobromobimane method. Free Radical Biology and Medicine, 2019, 136, 146-158.	2.9	44
16	Determining the target of membrane sterols on voltage-gated potassium channels. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 312-325.	2.4	13
17	Alterations in the properties of the cell membrane due to glycosphingolipid accumulation in a model of Gaucher disease. Scientific Reports, 2018, 8, 157.	3.3	45
18	The Effect of Fluorophore Conjugation on Antibody Affinity and the Photophysical Properties of Dyes. Biophysical Journal, 2018, 114, 688-700.	0.5	93

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19	Impaired Immunosuppressive Effect of Bronchoalveolar Mesenchymal Stem Cells in Hypersensitivity Pneumonitis: Preliminary Findings. Cytometry Part B - Clinical Cytometry, 2018, 94, 363-368.	1.5	3
20	Epigallocatechin-3-O-gallate alleviates the malignant phenotype in A-431 epidermoid and SK-BR-3 breast cancer cell lines. International Journal of Food Sciences and Nutrition, 2018, 69, 584-597.	2.8	10
21	Flow Cytometric FRET Analysis of Protein Interactions. Methods in Molecular Biology, 2018, 1678, 393-419.	0.9	17
22	Minimum degree of overlap between ILâ€9R and ILâ€2R on human T lymphoma cells: A quantitative CLSM and FRET analysis. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 1106-1117.	1.5	5
23	Heme Induces Endoplasmic Reticulum Stress (HIER Stress) in Human Aortic Smooth Muscle Cells. Frontiers in Physiology, 2018, 9, 1595.	2.8	26
24	Interactions of retinoids with the ABC transporters P-glycoprotein and Breast Cancer Resistance Protein. Scientific Reports, 2017, 7, 41376.	3.3	24
25	The dipole potential correlates with lipid raft markers in the plasma membrane of living cells. Journal of Lipid Research, 2017, 58, 1681-1691.	4.2	18
26	Detection of protein interactions by Subcellular Localization Assay. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 657-658.	1.5	0
27	rFRET: A comprehensive, Matlabâ€based program for analyzing intensityâ€based ratiometric microscopic FRET experiments. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 376-384.	1.5	16
28	MHC I Expression Regulates Co-clustering and Mobility of Interleukin-2 and -15 Receptors in T Cells. Biophysical Journal, 2016, 111, 100-112.	0.5	15
29	The flow of events: How the sequence of molecular interactions is seen by the latest, userâ€friendly high throughput flow cytometric FRET. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 881-885.	1.5	7
30	The Dipole Potential Modifies the Clustering and Ligand Binding Affinity of ErbB Proteins and Their Signaling Efficiency. Scientific Reports, 2016, 6, 35850.	3.3	21
31	Chemoprevention of Breast Cancer by Dietary Polyphenols. Molecules, 2015, 20, 22578-22620.	3.8	91
32	Understanding FRET as a Research Tool for Cellular Studies. International Journal of Molecular Sciences, 2015, 16, 6718-6756.	4.1	158
33	Maximum likelihood estimation of FRET efficiency and its implications for distortions in pixelwise calculation of FRET in microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 942-952.	1.5	16
34	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. Journal of Natural Products, 2014, 77, 250-257.	3.0	14
35	Maximum Likelihood Estimation of FRET Efficiency. Biophysical Journal, 2014, 106, 204a.	0.5	0
36	Distinct Spatial Relationship of the Interleukinâ€9 Receptor with Interleukinâ€2 Receptor and Major Histocompatibility Complex Glycoproteins in Human T Lymphoma Cells. ChemPhysChem, 2014, 15, 3969-3978.	2.1	10

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37	Hypoxia Reduces the Efficiency of Elisidepsin by Inhibiting Hydroxylation and Altering the Structure of Lipid Rafts. Marine Drugs, 2013, 11, 4858-4875.	4.6	11
38	Binding of Trastuzumab to ErbB2 Is Inhibited by a High Pericellular Density of Hyaluronan. Journal of Histochemistry and Cytochemistry, 2012, 60, 567-575.	2.5	15
39	How to avoid bleeding in FÃ¶rster resonance energy transfer. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 108-109.	1.5	0
40	Mapping and Immunomodulation of the Cell Surface Protein Architecture with Therapeutic Implications: Fluorescence Is a Key Tool of Solution. Reviews in Fluorescence, 2011, , 193-223.	0.5	1
41	Flow Cytometric FRET Analysis of Protein Interaction. Methods in Molecular Biology, 2011, 699, 371-392.	0.9	15
42	ErbB protein modifications are secondary to severe cell membrane alterations induced by elisidepsin treatment. European Journal of Pharmacology, 2011, 667, 91-99.	3.5	13
43	Comparative analysis of fluorescence resonance energy transfer (FRET) and proximity ligation assay (PLA). Proteomics, 2011, 11, 2063-2070.	2.2	35
44	Tâ€¢cell synapse formation depends on antigen recognition but not CD3 interaction: Studies with TCR:Î¶, a candidate transgene for TCR gene therapy. European Journal of Immunology, 2011, 41, 1288-1297.	2.9	16
45	Distribution of resting and ligand-bound ErbB1 and ErbB2 receptor tyrosine kinases in living cells using number and brightness analysis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16524-16529.	7.1	154
46	Coclustering of ErbB1 and ErbB2 Revealed by FRET-Sensitized Acceptor Bleaching. Biophysical Journal, 2010, 99, 105-114.	0.5	16
47	The density of GM1â€enriched lipid rafts correlates inversely with the efficiency of transfection mediated by cationic liposomes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 650-657.	1.5	12
48	Proximity or no proximity: That is the questionâ€”But the answer is more complex. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 813-815.	1.5	5
49	Twoâ€sided fluorescence resonance energy transfer for assessing molecular interactions of up to three distinct species in confocal microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 209-219.	1.5	37
50	Seeing through protein complexes by highâ€throughput FRET. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 388-389.	1.5	6
51	Cytometry of raft and caveola membrane microdomains: From flow and imaging techniques to high throughput screening assays. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 599-614.	1.5	23
52	Quantitative Characterization of the Large-Scale Association of ErbB1 and ErbB2 by Flow Cytometric Homo-FRET Measurements. Biophysical Journal, 2008, 95, 2086-2096.	0.5	59
53	Trastuzumab decreases the number of circulating and disseminated tumor cells despite trastuzumab resistance of the primary tumor. Cancer Letters, 2008, 260, 198-208.	7.2	42
54	EGFR and ErbB2 are functionally coupled to CD44 and regulate shedding, internalization and motogenic effect of CD44. Cancer Letters, 2008, 263, 231-242.	7.2	35

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55	Biotin-Ligand Complexes With Streptavidin Quantum Dots for In Vivo Cell Labeling of Membrane Receptors. , 2007, 374, 69-80.		25
56	Trastuzumab causes antibody-dependent cellular cytotoxicityâ€“mediated growth inhibition of submacroscopic JIMT-1 breast cancer xenografts despite intrinsic drug resistance. Molecular Cancer Therapeutics, 2007, 6, 2065-2072.	4.1	198
57	Hyaluronan-induced masking of ErbB2 and CD44-enhanced trastuzumab internalisation in trastuzumab resistant breast cancer. European Journal of Cancer, 2007, 43, 2423-2433.	2.8	127
58	In Vivo Imaging Using Quantum Dotâ€“Conjugated Probes. Current Protocols in Cell Biology, 2007, 36, Unit 25.1.	2.3	5
59	Principles of Resonance Energy Transfer. Current Protocols in Cytometry, 2006, 38, Unit1.12.	3.7	7
60	ICAM-1 inhibits the homocluster formation of MHC-I in colon carcinoma cells. Biochemical and Biophysical Research Communications, 2006, 347, 758-763.	2.1	7
61	Measuring FRET in Flow Cytometry and Microscopy. Current Protocols in Cytometry, 2006, 38, Unit12.8.	3.7	18
62	The role of supramolecular protein complexes and membrane potential in transmembrane signaling processes of lymphocytes. Immunology Letters, 2006, 104, 53-58.	2.5	7
63	Novel calibration method for flow cytometric fluorescence resonance energy transfer measurements between visible fluorescent proteins. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 67A, 86-96.	1.5	50
64	Signal transduction of erbB receptors in trastuzumab (Herceptin) sensitive and resistant cell lines: Local stimulation using magnetic microspheres as assessed by quantitative digital microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 67A, 161-171.	1.5	19
65	Novel Single Cell Fluorescence Approaches in the Investigation of Signaling at the Cellular Level. , 2005, , 33-70.		2
66	Associations of ErbB2, Î²1-integrin and lipid rafts on Herceptin (Trastuzumab) resistant and sensitive tumor cell lines. Cancer Letters, 2005, 227, 201-212.	7.2	42
67	Decreased accessibility and lack of activation of ErbB2 in JIMT-1, a herceptin-resistant, MUC4-expressing breast cancer cell line. Cancer Research, 2005, 65, 473-82.	0.9	313
68	Quantum dot ligands provide new insights into erbB/HER receptorâ€“mediated signal transduction. Nature Biotechnology, 2004, 22, 198-203.	17.5	796
69	Dynamic, yet structured: The cell membrane three decades after the Singerâ€“Nicolson model. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8053-8058.	7.1	472
70	Small interfering RNAs suppress the expression of endogenous and GFP-fused epidermal growth factor receptor (erbB1) and induce apoptosis in erbB1-overexpressing cells. Experimental Cell Research, 2003, 285, 39-49.	2.6	93
71	Imaging molecular interactions in cells by dynamic and static fluorescence anisotropy (rFLIM and) Tj ETQq1 1 0.784314 rgBT /Overloc	3.4	145
72	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. Journal of Biological Chemistry, 2002, 277, 1912-1918.	3.4	99

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73	Lipid rafts and the local density of ErbB proteins influence the biological role of homo- and heteroassociations of ErbB2. Journal of Cell Science, 2002, 115, 4251-4262.	2.0	167
74	Applications of fluorescence resonance energy transfer for mapping biological membranes. Reviews in Molecular Biotechnology, 2002, 82, 251-266.	2.8	27
75	Signaling revealed by mapping molecular interactions. Clinical and Applied Immunology Reviews, 2002, 2, 169-186.	0.4	12
76	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. Cytometry, 2002, 48, 124-135.	1.8	67
77	Lipopolysaccharide and ceramide docking to CD14 provokes ligand-specific receptor clustering in rafts. European Journal of Immunology, 2001, 31, 3153-3164.	2.9	408
78	Apoptosis of murine thymocytes induced by extracellular ATP is dose- and cytosolic pH-dependent. Immunology Letters, 2000, 72, 23-30.	2.5	33
79	The CD45 tyrosine phosphatase regulates Campath-1H (CD52)-induced TCR-dependent signal transduction in human T cells. International Immunology, 2000, 12, 505-516.	4.0	33
80	Complexity of signal transduction mediated by ErbB2: Clues to the potential of receptor-targeted cancer therapy. Pathology and Oncology Research, 1999, 5, 255-271.	1.9	50
81	EGF-induced redistribution of erbB2 on breast tumor cells: Flow and image cytometric energy transfer measurements. , 1998, 32, 120-131.		48
82	Intensity-based energy transfer measurements in digital imaging microscopy. European Biophysics Journal, 1998, 27, 377-389.	2.2	86
83	Fluorescent lipid probes 12-AS and TMA-DPH report on selective, purinergically induced fluidity changes in plasma membranes of lymphoid cells. Journal of Photochemistry and Photobiology B: Biology, 1997, 40, 120-125.	3.8	8
84	Ion-channel activities regulate transmembrane signaling in thymocyte apoptosis and T-cell activation. Immunology Letters, 1995, 44, 91-95.	2.5	24
85	Differences in uptake, storage and release properties between inositol trisphosphate-sensitive and -insensitive Ca2+, stores in permeabilized pancreatic acinar cells. Cell Calcium, 1995, 17, 85-96.	2.4	2
86	Analysis of cell surface molecular distributions and cellular signaling by flow cytometry. Journal of Fluorescence, 1994, 4, 303-314.	2.5	6
87	Biphasic Effect of Extracellular ATP on the Membrane Potential of Mouse Thymocytes. Biochemical and Biophysical Research Communications, 1993, 191, 378-384.	2.1	12