Yana K Reshetnyak

List of Publications by Year
in descending order

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84 papers	4,929 citations	76326 40 h-index	95266 68 g-index
86 all docs	86 docs citations	86 times ranked	4495 citing authors

#	Article	IF	Citations
1	Membrane protein folding: beyond the two stage model. FEBS Letters, 2003, 555, 122-125.	2.8	273
2	Mechanism and uses of a membrane peptide that targets tumors and other acidic tissues in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7893-7898.	7.1	263
3	Translocation of molecules into cells by pH-dependent insertion of a transmembrane helix. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6460-6465.	7.1	209
4	A Monomeric Membrane Peptide that Lives in Three Worlds: In Solution, Attached to, and Inserted across Lipid Bilayers. Biophysical Journal, 2007, 93, 2363-2372.	0.5	176
5	Family of pH (low) insertion peptides for tumor targeting. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5834-5839.	7.1	172
6	Probe for the measurement of cell surface pH in vivo and ex vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8177-8181.	7.1	171
7	Energetics of peptide (pHLIP) binding to and folding across a lipid bilayer membrane. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15340-15345.	7.1	159
8	A Novel Technology for the Imaging of Acidic Prostate Tumors by Positron Emission Tomography. Cancer Research, 2009, 69, 4510-4516.	0.9	154
9	pH (low) insertion peptide (pHLIP) inserts across a lipid bilayer as a helix and exits by a different path. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4081-4086.	7.1	143
10	Decomposition of Protein Tryptophan Fluorescence Spectra into Log-Normal Components. III. Correlation between Fluorescence and Microenvironment Parameters of Individual Tryptophan Residues. Biophysical Journal, 2001, 81, 1735-1758.	0.5	139
11	Decomposition of Protein Tryptophan Fluorescence Spectra into Log-Normal Components. II. The Statistical Proof of Discreteness of Tryptophan Classes in Proteins. Biophysical Journal, 2001, 81, 1710-1734.	0.5	136
12	pHLIP peptide targets nanogold particles to tumors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 465-470.	7.1	135
13	pH-(low)-insertion-peptide (pHLIP) translocation of membrane impermeable phalloidin toxin inhibits cancer cell proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20246-20250.	7.1	129
14	pH-sensitive membrane peptides (pHLIPs) as a novel class of delivery agents. Molecular Membrane Biology, 2010, 27, 341-352.	2.0	113
15	Decomposition of Protein Tryptophan Fluorescence Spectra into Log-Normal Components. I. Decomposition Algorithms. Biophysical Journal, 2001, 81, 1699-1709.	0.5	98
16	Measuring Tumor Aggressiveness and Targeting Metastatic Lesions with Fluorescent pHLIP. Molecular Imaging and Biology, 2011, 13, 1146-1156.	2.6	94
17	Peptides of pHLIP family for targeted intracellular and extracellular delivery of cargo molecules to tumors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2811-E2818.	7.1	92
18	Suppressing miR-21 activity in tumor-associated macrophages promotes an antitumor immune response. Journal of Clinical Investigation, 2019, 129, 5518-5536.	8.2	92

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19	Applications of pHLIP Technology for Cancer Imaging and Therapy. Trends in Biotechnology, 2017, 35, 653-664.	9.3	90
20	Topography Studies on the Membrane Interaction Mechanism of the Eosinophil Cationic Proteinâ€. Biochemistry, 2007, 46, 720-733.	2.5	80
21	T-cells produce acidic niches in lymph nodes to suppress their own effector functions. Nature Communications, 2020, 11, 4113.	12.8	77
22	Targeting Pancreatic Ductal Adenocarcinoma Acidic Microenvironment. Scientific Reports, 2014, 4, 4410.	3.3	76
23	Targeting diseased tissues by pHLIP insertion at low cell surface pH. Frontiers in Physiology, 2014, 5, 97.	2.8	74
24	pHLIPÂ®-mediated delivery of PEGylated liposomes to cancer cells. Journal of Controlled Release, 2013, 167, 228-237.	9.9	73
25	Enhancement of radiation effect on cancer cells by gold-pHLIP. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5372-5376.	7.1	73
26	Bilayer Interactions of pHLIP, a Peptide that Can Deliver Drugs and Target Tumors. Biophysical Journal, 2008, 95, 225-235.	0.5	71
27	Antiproliferative Effect of pHLIP-Amanitin. Biochemistry, 2013, 52, 1171-1178.	2.5	62
28	Tuning the insertion properties of pHLIP. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1041-1046.	2.6	61
29	pH (low) insertion peptide (pHLIP) targets ischemic myocardium. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 82-86.	7.1	61
30	Roles of Carboxyl Groups in the Transmembrane Insertion of Peptides. Journal of Molecular Biology, 2011, 413, 359-371.	4.2	60
31	In Vivo pH Imaging with 99mTc-pHLIP. Molecular Imaging and Biology, 2012, 14, 725-734.	2.6	60
32	Efficient ¹⁸F-Labeling of Large 37-Amino-Acid pHLIP Peptide Analogues and Their Biological Evaluation. Bioconjugate Chemistry, 2012, 23, 1557-1566.	3.6	60
33	Targeting Breast Tumors with pH (Low) Insertion Peptides. Molecular Pharmaceutics, 2014, 11, 2896-2905.	4.6	57
34	Modulation of the pHLIP Transmembrane Helix Insertion Pathway. Biophysical Journal, 2012, 102, 1846-1855.	0.5	55
35	Advanced targeted nanomedicine. Journal of Biotechnology, 2015, 202, 88-97.	3.8	54
36	The pH low insertion peptide pHLIP Variant 3 as a novel marker of acidic malignant lesions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9710-9715.	7.1	54

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37	Targeted imaging of urothelium carcinoma in human bladders by an ICG pHLIP peptide ex vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11829-11834.	7.1	54
38	PET Imaging of Extracellular pH in Tumors with ⁶⁴Cu- and ¹⁸F-Labeled pHLIP Peptides: A Structureâ€“Activity Optimization Study. Bioconjugate Chemistry, 2016, 27, 2014-2023.	3.6	52
39	Genetic deficiency or pharmacological inhibition of miR-33 protects from kidney fibrosis. JCI Insight, 2019, 4, .	5.0	46
40	pH dependent transfer of nano-pores into membrane of cancer cells to induce apoptosis. Scientific Reports, 2013, 3, 3560.	3.3	45
41	Polyamines drive myeloid cell survival by buffering intracellular pH to promote immunosuppression in glioblastoma. Science Advances, 2021, 7, .	10.3	45
42	Tuning a Polar Molecule for Selective Cytoplasmic Delivery by a pH (Low) Insertion Peptide. Biochemistry, 2011, 50, 10215-10222.	2.5	43
43	Understanding the pharmacological properties of a metabolic PET tracer in prostate cancer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7254-7259.	7.1	40
44	The protein fluorescence and structural toolkit: Database and programs for the analysis of protein fluorescence and structural data. Proteins: Structure, Function and Bioinformatics, 2008, 71, 1744-1754.	2.6	37
45	Targeting acidic diseased tissue: New technology based on use of the pH (Low) Insertion Peptide (pHLIP). Chimica Oggi, 2009, 27, 34-37.	1.7	35
46	Comparative Study of Tumor Targeting and Biodistribution of pH (Low) Insertion Peptides (pHLIPÂ®) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 686-696.	2.6	33
47	Membrane-Induced pK_a Shifts in wt-pHLIP and Its L16H Variant. Journal of Chemical Theory and Computation, 2018, 14, 3289-3297.	5.3	33
48	Targeting Acidic Diseased Tissues by pH-Triggered Membrane-Associated Peptide Folding. Frontiers in Bioengineering and Biotechnology, 2020, 8, 335.	4.1	32
49	pHLIP-FIRE, a Cell Insertion-Triggered Fluorescent Probe for Imaging Tumors Demonstrates Targeted Cargo Delivery In Vivo. ACS Chemical Biology, 2014, 9, 2545-2553.	3.4	31
50	pHLIP Peptide Interaction with a Membrane Monitored by SAXS. Journal of Physical Chemistry B, 2016, 120, 11484-11491.	2.6	30
51	Folding Kinetics and Structure of OEP16. Biophysical Journal, 2004, 86, 1479-1487.	0.5	29
52	Accurate Analysis of Tumor Margins Using a Fluorescent pH Low Insertion Peptide (pHLIP). International Journal of Molecular Sciences, 2009, 10, 3478-3487.	4.1	28
53	Imaging Tumor Acidity: pH-Low Insertion Peptide Probe for Optoacoustic Tomography. Clinical Cancer Research, 2015, 21, 4502-4504.	7.0	27
54	Algorithm for the Analysis of Tryptophan Fluorescence Spectra and Their Correlation with Protein Structural Parameters. Algorithms, 2009, 2, 1155-1176.	2.1	25

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55	Novel pH-Sensitive Cyclic Peptides. Scientific Reports, 2016, 6, 31322.	3.3	24
56	Bilayer Thickness and Curvature Influence Binding and Insertion of a pHLIP Peptide. Biophysical Journal, 2018, 114, 2107-2115.	0.5	24
57	Targeted Suppression of miRNA-33 Using pHLIP Improves Atherosclerosis Regression. Circulation Research, 2022, 131, 77-90.	4.5	23
58	pH-sensitive pHLIPÂ® coated niosomes. Molecular Membrane Biology, 2016, 33, 51-63.	2.0	19
59	pHLIP ICG for delineation of tumors and blood flow during fluorescence-guided surgery. Scientific Reports, 2020, 10, 18356.	3.3	19
60	Mapping pH at Cancer Cell Surfaces. Molecular Imaging and Biology, 2019, 21, 1020-1025.	2.6	17
61	Synthesis and characterization of pHLIP Â® coated gold nanoparticles. Biochemistry and Biophysics Reports, 2017, 10, 62-69.	1.3	16
62	Decoration of Nanovesicles with pH (Low) Insertion Peptide (pHLIP) for Targeted Delivery. Nanoscale Research Letters, 2018, 13, 391.	5.7	16
63	Acid specific dark quencher QC1 pHLIP for multi-spectral optoacoustic diagnoses of breast cancer. Scientific Reports, 2019, 9, 8550.	3.3	16
64	Tumor-selective, antigen-independent delivery of a pH sensitive peptide-topoisomerase inhibitor conjugate suppresses tumor growth without systemic toxicity. NAR Cancer, 2021, 3, zcab021.	3.1	16
65	Kinetics of pHLIP peptide insertion into and exit from a membrane. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12095-12100.	7.1	14
66	Ex-vivo Imaging of Upper Tract Urothelial Carcinoma Using Novel pH Low Insertion Peptide (Variant 3), a Molecular Imaging Probe. Urology, 2020, 139, 134-140.	1.0	13
67	Mechanism of Formation of Actomyosin Interface. Journal of Molecular Biology, 2007, 365, 551-554.	4.2	12
68	Demarcation of Sepsis-Induced Peripheral and Central Acidosis with pH (Low) Insertion Cycle Peptide. Journal of Nuclear Medicine, 2020, 61, 1361-1368.	5.0	12
69	PET Imaging of Acidic Tumor Environment With 89Zr-labeled pHLIP Probes. Frontiers in Oncology, 2022, 12, .	2.8	11
70	Coil-helix transition of polypeptide at water-lipid interface. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P01034.	2.3	10
71	Conformational and enzymatic changes of 20S proteasome of rat natural killer cells induced by mono- and divalent cations. Journal of Structural Biology, 2004, 145, 263-271.	2.8	9
72	Fabrication of semiconductor nanowires by conjugation of quantum dots to actin filaments. Analytical and Bioanalytical Chemistry, 2009, 395, 1563-1566.	3.7	9

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73	Gold Nanoparticles for Radiation Enhancement. , 2016, 3, .		8
74	Comparative Study of Recombinant Rat Nucleoside Diphosphate Kinases Î± and Î² By Intrinsic Protein Fluorescence. Journal of Biomolecular Structure and Dynamics, 1999, 16, 955-968.	3.5	7
75	pHLIP Peptides Target Acidity in Activated Macrophages. Molecular Imaging and Biology, 2022, 24, 874-885.	2.6	7
76	Interaction of recombinant rat nucleoside diphosphate kinase Î± with bleached bovine retinal rod outer segment membranes: A possible mode of pH and salt effects. IUBMB Life, 1997, 41, 189-198.	3.4	3
77	Insertion into lipid bilayer of truncated pHLIP Â® peptide. Biochemistry and Biophysics Reports, 2016, 8, 290-295.	1.3	3
78	Alkaline nucleoplasm facilitates contractile gene expression in the mammalian heart. Basic Research in Cardiology, 2022, 117, 17.	5.9	3
79	Acidic environments trigger intracellular H+-sensing FAK proteins to re-balance sarcolemmal acidâ€“base transporters and auto-regulate cardiomyocyte pH. Cardiovascular Research, 2022, 118, 2946-2959.	3.8	2
80	The interdomain motions in myosin subfragment 1. Biophysical Chemistry, 2001, 94, 41-46.	2.8	1
81	Parking problem and negative cooperativity of binding of myosin subfragment 1 to F-actin. Biochemical and Biophysical Research Communications, 2012, 425, 746-749.	2.1	1
82	pH (Low) Insertion Peptide targets 4T1 mammary tumors. , 2015, , .		0
83	phâ€Triggered Transport of Molecules into Cells by Transmembrane Helix Insertion. FASEB Journal, 2006, 20, A457.	0.5	0
84	Translocating cellâ€impermeable molecules through the plasma membrane of cancer cells. FASEB Journal, 2009, 23, 796.7.	0.5	0