## Donald M Engelman

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 94
 11,900
 50
 98

 papers
 citations
 h-index
 g-index

 98
 12,766
 9
 6.46

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
94	MicroRNA function can be reversed by altering target gene expression levels. <i>IScience</i> , <b>2021</b> , 24, 10320	86.1	O
93	Pharmacokinetic modeling reveals parameters that govern tumor targeting and delivery by a pH-Low Insertion Peptide (pHLIP). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
92	Tumor-selective, antigen-independent delivery of a pH sensitive peptide-topoisomerase inhibitor conjugate suppresses tumor growth without systemic toxicity. <i>NAR Cancer</i> , <b>2021</b> , 3, zcab021	5.2	2
91	Kinetics of pHLIP peptide insertion into and exit from a membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 12095-12100	11.5	3
90	Ku80-Targeted pH-Sensitive Peptide-PNA Conjugates Are Tumor Selective and Sensitize Cancer Cells to Ionizing Radiation. <i>Molecular Cancer Research</i> , <b>2020</b> , 18, 873-882	6.6	9
89	Targeting Acidic Diseased Tissues by pH-Triggered Membrane-Associated Peptide Folding. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 335	5.8	10
88	Tumor-Targeted, Cytoplasmic Delivery of Large, Polar Molecules Using a pH-Low Insertion Peptide. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 461-471	5.6	8
87	pHLIP ICG for delineation of tumors and blood flow during fluorescence-guided surgery. <i>Scientific Reports</i> , <b>2020</b> , 10, 18356	4.9	5
86	Mapping pH at Cancer Cell Surfaces. <i>Molecular Imaging and Biology</i> , <b>2019</b> , 21, 1020-1025	3.8	10
85	Peptides of pHLIP family for targeted intracellular and extracellular delivery of cargo molecules to tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E28	11-E28	181
84	Bilayer Thickness and Curvature Influence Binding and Insertion of a pHLIP Peptide. <i>Biophysical Journal</i> , <b>2018</b> , 114, 2107-2115	2.9	15
83	Applications of pHLIP Technology for Cancer Imaging and Therapy. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 653-664	15.1	57
82	Two transmembrane dimers of the bovine papillomavirus E5 oncoprotein clamp the PDGF I receptor in an active dimeric conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E7262-E7271	11.5	13
81	PET Imaging of Extracellular pH in Tumors with (64)Cu- and (18)F-Labeled pHLIP Peptides: A Structure-Activity Optimization Study. <i>Bioconjugate Chemistry</i> , <b>2016</b> , 27, 2014-23	6.3	43
80	OncomiR or Tumor Suppressor? The Duplicity of MicroRNAs in Cancer. Cancer Research, 2016, 76, 3666-	7 <u>0</u> 0.1	428
79	Membranes Do Not Tell Proteins How To Fold. <i>Biochemistry</i> , <b>2016</b> , 55, 5-18	3.2	39
78	Probe for the measurement of cell surface pH in vivo and ex vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 8177-81	11.5	126

### (2011-2016)

77	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	4 <sup>11.5</sup>	35
76	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, 9710-5	11.5	40
75	Biologically active LIL proteins built with minimal chemical diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E4717-25	11.5	26
74	Targeting acidity in diseased tissues: mechanism and applications of the membrane-inserting peptide, pHLIP. <i>Archives of Biochemistry and Biophysics</i> , <b>2015</b> , 565, 40-8	4.1	49
73	MicroRNA silencing for cancer therapy targeted to the tumour microenvironment. <i>Nature</i> , <b>2015</b> , 518, 107-10	50.4	591
72	Targeting diseased tissues by pHLIP insertion at low cell surface pH. Frontiers in Physiology, <b>2014</b> , 5, 97	4.6	63
71	pHLIP-FIRE, a cell insertion-triggered fluorescent probe for imaging tumors demonstrates targeted cargo delivery in vivo. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 2545-53	4.9	28
70	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, 7254-9	11.5	34
69	Mapping the homodimer interface of an optimized, artificial, transmembrane protein activator of the human erythropoietin receptor. <i>PLoS ONE</i> , <b>2014</b> , 9, e95593	3.7	6
68	pH (low) insertion peptide (pHLIP) targets ischemic myocardium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 82-6	11.5	49
67	pHLIP peptide targets nanogold particles to tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 465-70	11.5	121
66	Aspartate embedding depth affects pHLIP's insertion pKa. <i>Biochemistry</i> , <b>2013</b> , 52, 4595-604	3.2	34
65	Peptide targeting and imaging of damaged lung tissue in influenza-infected mice. <i>Future Microbiology</i> , <b>2013</b> , 8, 257-69	2.9	15
64	Family of pH (low) insertion peptides for tumor targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5834-9	11.5	139
63	In vivo pH imaging with (99m)Tc-pHLIP. Molecular Imaging and Biology, 2012, 14, 725-34	3.8	52
62	Modulation of the pHLIP transmembrane helix insertion pathway. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1846-	5 <b>5</b> .9	44
61	Membrane physical properties influence transmembrane helix formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 14422-7	11.5	55
60	Roles of carboxyl groups in the transmembrane insertion of peptides. <i>Journal of Molecular Biology</i> , <b>2011</b> , 413, 359-71	6.5	47

59	Measuring tumor aggressiveness and targeting metastatic lesions with fluorescent pHLIP. <i>Molecular Imaging and Biology</i> , <b>2011</b> , 13, 1146-56	3.8	77
58	Tuning a polar molecule for selective cytoplasmic delivery by a pH (Low) insertion peptide. <i>Biochemistry</i> , <b>2011</b> , 50, 10215-22	3.2	36
57	Thrombopoietin receptor activation: transmembrane helix dimerization, rotation, and allosteric modulation. <i>FASEB Journal</i> , <b>2011</b> , 25, 2234-44	0.9	49
56	Construction and genetic selection of small transmembrane proteins that activate the human erythropoietin receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 3447-52	11.5	35
55	pH-sensitive membrane peptides (pHLIPs) as a novel class of delivery agents. <i>Molecular Membrane Biology</i> , <b>2010</b> , 27, 341-52	3.4	94
54	pH-(low)-insertion-peptide (pHLIP) translocation of membrane impermeable phalloidin toxin inhibits cancer cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 20246-50	11.5	105
53	pH (low) insertion peptide (pHLIP) inserts across a lipid bilayer as a helix and exits by a different path. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4081-6	11.5	110
52	Tuning the insertion properties of pHLIP. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 104	13 <del>.</del> 8	49
51	Artificial transmembrane oncoproteins smaller than the bovine papillomavirus E5 protein redefine sequence requirements for activation of the platelet-derived growth factor beta receptor. <i>Journal of Virology</i> , <b>2009</b> , 83, 9773-85	6.6	24
50	Accurate analysis of tumor margins using a fluorescent pH Low Insertion Peptide (pHLIP). <i>International Journal of Molecular Sciences</i> , <b>2009</b> , 10, 3478-87	6.3	24
49	A novel technology for the imaging of acidic prostate tumors by positron emission tomography. <i>Cancer Research</i> , <b>2009</b> , 69, 4510-6	10.1	138
48	Computational analysis of membrane proteins: the largest class of drug targets. <i>Drug Discovery Today</i> , <b>2009</b> , 14, 1130-5	8.8	183
47	pHLIP-mediated translocation of membrane-impermeable molecules into cells. <i>Chemistry and Biology</i> , <b>2009</b> , 16, 754-62		54
46	Targeting acidic diseased tissue: New technology based on use of the pH (Low) Insertion Peptide (pHLIP) <b>2009</b> , 27, 34-37		34
45	Translocating cell-impermeable molecules through the plasma membrane of cancer cells. <i>FASEB Journal</i> , <b>2009</b> , 23, 796.7	0.9	
44	Bilayer interactions of pHLIP, a peptide that can deliver drugs and target tumors. <i>Biophysical Journal</i> , <b>2008</b> , 95, 225-35	2.9	65
43	Protein area occupancy at the center of the red blood cell membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 2848-52	11.5	196
42	Energetics of peptide (pHLIP) binding to and folding across a lipid bilayer membrane. <i>Proceedings</i> of the National Academy of Sciences of the United States of America, 2008, 105, 15340-5	11.5	137

### (2000-2007)

41	A monomeric membrane peptide that lives in three worlds: in solution, attached to, and inserted across lipid bilayers. <i>Biophysical Journal</i> , <b>2007</b> , 93, 2363-72	2.9	148
40	Mechanism and uses of a membrane peptide that targets tumors and other acidic tissues in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 7893-8	11.5	228
39	Translocation of molecules into cells by pH-dependent insertion of a transmembrane helix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 6460-5	11.5	179
38	The stability of transmembrane helix interactions measured in a biological membrane. <i>Journal of Molecular Biology</i> , <b>2006</b> , 358, 1221-8	6.5	54
37	ph-Triggered Transport of Molecules into Cells by Transmembrane Helix Insertion. <i>FASEB Journal</i> , <b>2006</b> , 20, A457	0.9	
36	Transmembrane homodimerization of receptor-like protein tyrosine phosphatases. <i>FEBS Letters</i> , <b>2005</b> , 579, 3855-8	3.8	43
35	Membranes are more mosaic than fluid. <i>Nature</i> , <b>2005</b> , 438, 578-80	50.4	693
34	The affinity of GXXXG motifs in transmembrane helix-helix interactions is modulated by long-range communication. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 16591-7	5.4	97
33	Selection and characterization of small random transmembrane proteins that bind and activate the platelet-derived growth factor beta receptor. <i>Journal of Molecular Biology</i> , <b>2004</b> , 338, 907-20	6.5	53
32	Computational analysis of membrane proteins: genomic occurrence, structure prediction and helix interactions. <i>Quarterly Reviews of Biophysics</i> , <b>2004</b> , 37, 121-46	7	55
31	Membrane protein folding: beyond the two stage model. FEBS Letters, 2003, 555, 122-5	3.8	244
30	Electrostatic fasteners hold the T cell receptor-CD3 complex together. <i>Molecular Cell</i> , <b>2003</b> , 11, 5-6	17.6	26
29	Computation and mutagenesis suggest a right-handed structure for the synaptobrevin transmembrane dimer. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2001</b> , 45, 313-7	4.2	50
28	Design of single-layer beta-sheets without a hydrophobic core. <i>Nature</i> , <b>2000</b> , 403, 456-60	50.4	54
27	Statistical analysis of amino acid patterns in transmembrane helices: the GxxxG motif occurs frequently and in association with beta-branched residues at neighboring positions. <i>Journal of Molecular Biology</i> , <b>2000</b> , 296, 921-36	6.5	529
26	The GxxxG motif: a framework for transmembrane helix-helix association. <i>Journal of Molecular Biology</i> , <b>2000</b> , 296, 911-9	6.5	797
25	Interhelical hydrogen bonding drives strong interactions in membrane proteins. <i>Nature Structural Biology</i> , <b>2000</b> , 7, 154-60		212
24	Helical membrane protein folding, stability, and evolution. <i>Annual Review of Biochemistry</i> , <b>2000</b> , 69, 881-	-932	546

23	Multistep denaturation of Borrelia burgdorferi OspA, a protein containing a single-layer beta-sheet. <i>Biochemistry</i> , <b>1999</b> , 38, 4757-67	3.2	33
22	Models for the transmembrane region of the phospholamban pentamer: which is correct?. <i>Annals of the New York Academy of Sciences</i> , <b>1998</b> , 853, 178-85	6.5	7
21	A solution SAXS study of Borrelia burgdorferi OspA, a protein containing a single-layer beta-sheet. <i>Protein Science</i> , <b>1998</b> , 7, 2681-3	6.3	19
20	Structural perspectives of phospholamban, a helical transmembrane pentamer. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>1997</b> , 26, 157-79		64
19	A transmembrane helix dimer: structure and implications. <i>Science</i> , <b>1997</b> , 276, 131-3	33.3	893
18	The effect of point mutations on the free energy of transmembrane alpha-helix dimerization. <i>Journal of Molecular Biology</i> , <b>1997</b> , 272, 266-75	6.5	223
17	Spontaneous, pH-dependent membrane insertion of a transbilayer alpha-helix. <i>Biochemistry</i> , <b>1997</b> , 36, 15177-92	3.2	204
16	Dimerization of the p185neu transmembrane domain is necessary but not sufficient for transformation. <i>Oncogene</i> , <b>1997</b> , 14, 687-96	9.2	70
15	Improved prediction for the structure of the dimeric transmembrane domain of glycophorin A obtained through global searching. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1996</b> , 26, 257-61	4.2	141
14	Leucine side-chain rotamers in a glycophorin A transmembrane peptide as revealed by three-bond carbon-carbon couplings and 13C chemical shifts. <i>Journal of Biomolecular NMR</i> , <b>1996</b> , 7, 256-60	3	30
13	Surface point mutations that significantly alter the structure and stability of a protein denatured state. <i>Protein Science</i> , <b>1996</b> , 5, 2009-19	6.3	42
12	Mapping the lipid-exposed surfaces of membrane proteins. <i>Nature Structural Biology</i> , <b>1996</b> , 3, 240-3		16
11	Computational searching and mutagenesis suggest a structure for the pentameric transmembrane domain of phospholamban. <i>Nature Structural and Molecular Biology</i> , <b>1995</b> , 2, 154-62	17.6	186
10	A dimerization motif for transmembrane alpha-helices. <i>Nature Structural Biology</i> , <b>1994</b> , 1, 157-63		278
9	Specificity and promiscuity in membrane helix interactions. <i>Quarterly Reviews of Biophysics</i> , <b>1994</b> , 27, 157-218	7	168
8	Sequence specificity in the dimerization of transmembrane alpha-helices. <i>Biochemistry</i> , <b>1992</b> , 31, 12719	-35	482
7	Bacteriorhodopsin can be refolded from two independently stable transmembrane helices and the complementary five-helix fragment. <i>Biochemistry</i> , <b>1992</b> , 31, 6144-51	3.2	149
6	Bacteriorhodopsin reconstituted from two individual helices and the complementary five-helix fragment is photoactive. <i>Photochemistry and Photobiology</i> , <b>1992</b> , 56, 895-901	3.6	21

#### LIST OF PUBLICATIONS

5	Refolding of bacteriorhodopsin in lipid bilayers. A thermodynamically controlled two-stage process. Journal of Molecular Biology, <b>1987</b> , 198, 655-76	6.5	269
4	Lipid bilayer thickness varies linearly with acyl chain length in fluid phosphatidylcholine vesicles. Journal of Molecular Biology, 1983, 166, 211-7	6.5	695
3	Inelastic neutron scattering analysis of hexokinase dynamics and its modification on binding of glucose. <i>Nature</i> , <b>1982</b> , 300, 84-6	50.4	51
2	X-ray and neutron small-angle scattering studies of the complex between protein S1 and the 30-S ribosomal subunit. <i>FEBS Journal</i> , <b>1978</b> , 85, 529-34		6
1	Molecular mechanism for the interaction of phospholipid with cholesterol. <i>Nature: New Biology</i> , <b>1972</b> , 237, 42-4		115