

Michael W Klymkowsky

List of Publications by Citations

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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.

92
papers

4,774
citations

37
h-index

68
g-index

163
ext. papers

5,145
ext. citations

6.3
avg, IF

5.64
L-index

#	Paper	IF	Citations
92	Epithelial-mesenchymal transition: a cancer researcher's conceptual friend and foe. <i>American Journal of Pathology</i> , 2009 , 174, 1588-93	5.8	400
91	Regulation of Wnt signaling by Sox proteins: XSox17 alpha/beta and XSox3 physically interact with beta-catenin. <i>Molecular Cell</i> , 1999 , 4, 487-98	17.6	307
90	Structure and function of an acetylcholine receptor. <i>Biophysical Journal</i> , 1982 , 37, 371-83	2.9	265
89	Structural studies of a membrane-bound acetylcholine receptor from <i>Torpedo californica</i> . <i>Journal of Molecular Biology</i> , 1977 , 116, 635-59	6.5	172
88	Whole-mount staining of <i>Xenopus</i> and other vertebrates. <i>Methods in Cell Biology</i> , 1991 , 36, 419-41	1.8	166
87	Functions of intermediate filaments. <i>Cytoskeleton</i> , 1989 , 14, 309-31		154
86	Intermediate filaments in 3T3 cells collapse after intracellular injection of a monoclonal anti-intermediate filament antibody. <i>Nature</i> , 1981 , 291, 249-51	50.4	152
85	Immunospecific identification and three-dimensional structure of a membrane-bound acetylcholine receptor from <i>Torpedo californica</i> . <i>Journal of Molecular Biology</i> , 1979 , 128, 319-34	6.5	135
84	Understanding randomness and its impact on student learning: lessons learned from building the Biology Concept Inventory (BCI). <i>CBE Life Sciences Education</i> , 2008 , 7, 227-33	3.4	133
83	The appearance of acetylated alpha-tubulin during early development and cellular differentiation in <i>Xenopus</i> . <i>Developmental Biology</i> , 1989 , 136, 104-17	3.1	133
82	Regulation of TCF3 by Wnt-dependent phosphorylation during vertebrate axis specification. <i>Developmental Cell</i> , 2010 , 19, 521-32	10.2	128
81	Inhibition of neural crest migration in <i>Xenopus</i> using antisense slug RNA. <i>Developmental Biology</i> , 1999 , 213, 101-15	3.1	124
80	Lost in Lewis Structures: An Investigation of Student Difficulties in Developing Representational Competence. <i>Journal of Chemical Education</i> , 2010 , 87, 869-874	2.4	121
79	Chemistry, Life, the Universe, and Everything: A New Approach to General Chemistry, and a Model for Curriculum Reform. <i>Journal of Chemical Education</i> , 2013 , 90, 1116-1122	2.4	114
78	The body language of cells: the intimate connection between cell adhesion and behavior. <i>Cell</i> , 1995 , 83, 5-8	56.2	103
77	Cranial ontogeny in the direct-developing frog, <i>Eleutherodactylus coqui</i> (Anura: Leptodactylidae), analyzed using whole-mount immunohistochemistry. <i>Journal of Morphology</i> , 1992 , 211, 95-118	1.6	89
76	Intermediate filaments: new proteins, some answers, more questions. <i>Current Opinion in Cell Biology</i> , 1995 , 7, 46-54	9	88

75	Sox3 expression identifies neural progenitors in persistent neonatal and adult mouse forebrain germinative zones. <i>Journal of Comparative Neurology</i> , 2006 , 497, 88-100	3.4	87
74	Eya1 and Six1 promote neurogenesis in the cranial placodes in a SoxB1-dependent fashion. <i>Developmental Biology</i> , 2008 , 320, 199-214	3.1	84
73	Development and Assessment of a Molecular Structure and Properties Learning Progression. <i>Journal of Chemical Education</i> , 2012 , 89, 1351-1357	2.4	80
72	SOX7 and SOX18 are essential for cardiogenesis in <i>Xenopus</i> . <i>Developmental Dynamics</i> , 2005 , 234, 878-912.	2.9	68
71	Cytoplasmically anchored plakoglobin induces a WNT-like phenotype in <i>Xenopus</i> . <i>Developmental Biology</i> , 1997 , 185, 67-81	3.1	66
70	Recognizing student misconceptions through Ed's Tools and the Biology Concept Inventory. <i>PLoS Biology</i> , 2008 , 6, e3	9.7	65
69	A comparative evaluation of beta-catenin and plakoglobin signaling activity. <i>Oncogene</i> , 2000 , 19, 5720-89.	2	60
68	Building, using, and maximizing the impact of concept inventories in the biological sciences: report on a National Science Foundation sponsored conference on the construction of concept inventories in the biological sciences. <i>CBE Life Sciences Education</i> , 2007 , 6, 277-82	3.4	55
67	Bioliteracy and teaching efficacy: what biologists can learn from physicists. <i>CBE: Life Sciences Education</i> , 2003 , 2, 155-61		54
66	NEXUS/Physics: An interdisciplinary repurposing of physics for biologists. <i>American Journal of Physics</i> , 2014 , 82, 368-377	0.7	52
65	Repression of nodal expression by maternal B1-type SOXs regulates germ layer formation in <i>Xenopus</i> and zebrafish. <i>Developmental Biology</i> , 2004 , 273, 23-37	3.1	51
64	The trouble with chemical energy: why understanding bond energies requires an interdisciplinary systems approach. <i>CBE Life Sciences Education</i> , 2013 , 12, 306-12	3.4	50
63	CRISPR/Cas9-mediated mutagenesis in the sea lamprey <i>Petromyzon marinus</i> : a powerful tool for understanding ancestral gene functions in vertebrates. <i>Development (Cambridge)</i> , 2015 , 142, 4180-7	6.6	45
62	Membrane-anchored plakoglobins have multiple mechanisms of action in Wnt signaling. <i>Molecular Biology of the Cell</i> , 1999 , 10, 3151-69	3.5	45
61	Are Noncovalent Interactions an Achilles Heel in Chemistry Education? A Comparison of Instructional Approaches. <i>Journal of Chemical Education</i> , 2015 , 92, 1979-1987	2.4	44
60	An NF-kappaB and slug regulatory loop active in early vertebrate mesoderm. <i>PLoS ONE</i> , 2006 , 1, e106	3.7	44
59	Localizing the adhesive and signaling functions of plakoglobin. <i>Genesis</i> , 1997 , 20, 91-102		43
58	TSPAN12 Is a Norrin Co-receptor that Amplifies Frizzled4 Ligand Selectivity and Signaling. <i>Cell Reports</i> , 2017 , 19, 2809-2822	10.6	41

57	Jaw muscle development as evidence for embryonic repatterning in direct-developing frogs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997 , 264, 1349-54	4.4	39
56	SOX7 is an immediate-early target of VegT and regulates Nodal-related gene expression in <i>Xenopus</i> . <i>Developmental Biology</i> , 2005 , 278, 526-41	3.1	39
55	Organic Chemistry, Life, the Universe and Everything (OCLUE): A Transformed Organic Chemistry Curriculum. <i>Journal of Chemical Education</i> , 2019 , 96, 1858-1872	2.4	37
54	Unexpected functional redundancy between Twist and Slug (Snail2) and their feedback regulation of NF-kappaB via Nodal and Cerberus. <i>Developmental Biology</i> , 2009 , 331, 340-9	3.1	37
53	Metabolic inhibitors and intermediate filament organization in human fibroblasts. <i>Experimental Cell Research</i> , 1988 , 174, 282-90	4.2	37
52	Limb development in a "nonmodel" vertebrate, the direct-developing frog <i>Eleutherodactylus coqui</i> . <i>The Journal of Experimental Zoology</i> , 2001 , 291, 375-88		35
51	MPF-induced breakdown of cytokeratin filament organization in the maturing <i>Xenopus</i> oocyte depends upon the translation of maternal mRNAs. <i>Developmental Biology</i> , 1989 , 134, 479-85	3.1	35
50	Morphogenesis and the cytoskeleton: studies of the <i>Xenopus</i> embryo. <i>Developmental Biology</i> , 1994 , 165, 372-84	3.1	34
49	The Sox axis, Nodal signaling, and germ layer specification. <i>Differentiation</i> , 2007 , 75, 536-45	3.5	33
48	Snail2 controls mesodermal BMP/Wnt induction of neural crest. <i>Development (Cambridge)</i> , 2011 , 138, 3135-45	6.6	31
47	Differential organization of desmin and vimentin in muscle is due to differences in their head domains. <i>Journal of Cell Biology</i> , 1994 , 126, 445-56	7.3	30
46	Mechanisms driving neural crest induction and migration in the zebrafish and <i>Xenopus laevis</i> . <i>Cell Adhesion and Migration</i> , 2010 , 4, 595-608	3.2	29
45	Plakophilin, armadillo repeats, and nuclear localization. <i>Microscopy Research and Technique</i> , 1999 , 45, 43-54	2.8	29
44	Embryonic expression of <i>Xenopus laevis</i> SOX7. <i>Gene Expression Patterns</i> , 2004 , 4, 29-33	1.5	26
43	Type II collagen distribution during cranial development in <i>Xenopus laevis</i> . <i>Anatomy and Embryology</i> , 1994 , 189, 81-9		26
42	Whole-Mount Analyses of Cytoskeletal Reorganization and Function during Oogenesis and Early Embryogenesis in <i>Xenopus</i> 1989 , 63-103		26
41	A Short History of the Use of Technology To Model and Analyze Student Data for Teaching and Research. <i>ACS Symposium Series</i> , 2014 , 219-239	0.4	22
40	Points of view: content versus process: is this a fair choice? Undergraduate biology courses for nonscientists: toward a lived curriculum. <i>CBE: Life Sciences Education</i> , 2005 , 4, 189-96		21

39	Rohon-Beard sensory neurons are induced by BMP4 expressing non-neural ectoderm in <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 2008 , 314, 351-61	3.1	19
38	Metabolic inhibitors and mitosis: I. Effects of dinitrophenol/deoxyglucose and nocodazole on the live spindle. <i>Protoplasma</i> , 1986 , 131, 47-59	3.4	19
37	Metabolic inhibitors and mitosis: II. Effects of dinitrophenol/deoxyglucose and nocodazole on the microtubule cytoskeleton. <i>Protoplasma</i> , 1986 , 131, 60-74	3.4	19
36	Desmin organization during the differentiation of the dorsal myotome in <i>Xenopus laevis</i> . <i>Differentiation</i> , 1994 , 56, 31-8	3.5	18
35	Intermediate filament organization, reorganization, and function in the clawed frog <i>Xenopus</i> . <i>Current Topics in Developmental Biology</i> , 1995 , 31, 455-86	5.3	17
34	Cadherins and catenins, Wnts and SOXs: embryonic patterning in <i>Xenopus</i> . <i>International Review of Cytology</i> , 2001 , 203, 291-355		16
33	Acute effects of desmin mutations on cytoskeletal and cellular integrity in cardiac myocytes. <i>Cytoskeleton</i> , 2003 , 54, 105-21		15
32	Identifying domains of EFHC1 involved in ciliary localization, ciliogenesis, and the regulation of Wnt signaling. <i>Developmental Biology</i> , 2016 , 411, 257-265	3.1	13
31	Chibby functions in <i>Xenopus</i> ciliary assembly, embryonic development, and the regulation of gene expression. <i>Developmental Biology</i> , 2014 , 395, 287-98	3.1	13
30	Diagnostic of students' misconceptions using the Biological Concepts Instrument (BCI): A method for conducting an educational needs assessment. <i>PLoS ONE</i> , 2017 , 12, e0176906	3.7	12
29	Centrin-2 (Cetn2) mediated regulation of FGF/FGFR gene expression in <i>Xenopus</i> . <i>Scientific Reports</i> , 2015 , 5, 10283	4.9	12
28	Cellular and secreted forms of acetylcholinesterase in mouse muscle cultures. <i>Journal of Neurochemistry</i> , 1985 , 45, 1932-40	6	12
27	Nuclear roles for cilia-associated proteins. <i>Cilia</i> , 2017 , 6, 8	5.5	10
26	Using graph-based assessments within socratic tutorials to reveal and refine students' analytical thinking about molecular networks. <i>Biochemistry and Molecular Biology Education</i> , 2012 , 40, 100-7	1.3	8
25	A maternally established SoxB1/SoxF axis is a conserved feature of chordate germ layer patterning. <i>Evolution & Development</i> , 2012 , 14, 104-15	2.6	8
24	Intermediate filaments as dynamic structures. <i>Cancer and Metastasis Reviews</i> , 1996 , 15, 417-28	9.6	8
23	Mitochondrial activity, embryogenesis, and the dialogue between the big and little brains of the cell. <i>Mitochondrion</i> , 2011 , 11, 814-9	4.9	7
22	Classroom Uses for BeSocratic. <i>Human-computer Interaction Series</i> , 2015 , 127-136	0.6	7

21	Energy in Chemical Systems: An Integrated Approach 2014 , 301-316		6
20	Make room for computing. <i>Science</i> , 2009 , 326, 227	33.3	6
19	Filaments and phenotypes: cellular roles and orphan effects associated with mutations in cytoplasmic intermediate filament proteins. <i>F1000Research</i> , 2019 , 8,	3.6	6
18	Making educational games that work in the classroom: A new approach for integrating STEM simulations 2013 ,		5
17	Now for the hard part: the path to coherent curricular design. <i>Biochemistry and Molecular Biology Education</i> , 2012 , 40, 271-2	1.3	5
16	Turning randomness into meaning at the molecular level using Muller's morphs. <i>Biology Open</i> , 2012 , 1, 405-10	2.2	5
15	Cerebral organoid proteomics reveals signatures of dysregulated cortical development associated with human trisomy 21		5
14	Whole-Mount Immunocytochemistry in. <i>Cold Spring Harbor Protocols</i> , 2018 , 2018,	1.2	5
13	Teaching data structures with beSocratic 2013 ,		4
12	Concept Inventories: Design, Application, Uses, Limitations, and Next Steps 2020 , 775-790		4
11	The Design and Transformation of Biofundamentals: A Nonsurvey Introductory Evolutionary and Molecular Biology Course. <i>CBE Life Sciences Education</i> , 2016 , 15,	3-4	4
10	Analyzing and visualizing student work with BeSocratic 2012 ,		3
9	Comment on Should Organic Chemistry Be Taught as Science? <i>Journal of Chemical Education</i> , 2020 , 97, 1213-1214	2.4	2
8	Debunking Key and Lock Biology: Exploring the prevalence and persistence of students' misconceptions on the nature and flexibility of molecular interactions. <i>Matters Select</i> ,	1	2
7	Chapter 7 Intermediate filaments: A medical overview. <i>Principles of Medical Biology</i> , 1995 , 2, 147-188		1
6	A guide to the productive poking, prodding and injection of cells. <i>Development (Cambridge)</i> , 2009 , 136, 4070-4072	6.6	
5	sizzled function and secreted factor network dynamics. <i>Biology Open</i> , 2012 , 1, 286-94	2.2	
4	Wnt Signaling Networks and Embryonic Patterning 2005 , 267-287		

- 3 Foundational Physiochemical Concepts in the Biological Sciences. *FASEB Journal*, **2009**, 23, 464.3 0.9
- 2 Making mechanistic sense: are we teaching students what they need to know?. *Developmental Biology*, **2021**, 476, 308-313 3.1
- 1 Aligning Assessment Goals with the Current and Future Technologies Needed to Achieve Them **2022**, 241-257