

# Kenneth V Mills

## 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.

65  
papers

493  
citations

11  
h-index

22  
g-index

74  
ext. papers

550  
ext. citations

2  
avg, IF

3.66  
L-index

#	Paper	IF	Citations
65	Protein splicing: how inteins escape from precursor proteins. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 14498-505	5.4	82
64	Recent advances in in vivo applications of intein-mediated protein splicing. <i>Mobile DNA</i> , <b>2014</b> , 5, 5	4.4	63
63	Reversible inhibition of protein splicing by zinc ion. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 10832-8	5.4	55
62	Protein splicing of a <i>Pyrococcus abyssi</i> intein with a C-terminal glutamine. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 20685-91	5.4	47
61	Intramolecular disulfide bond between catalytic cysteines in an intein precursor. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2500-3	16.4	41
60	Kinetic analysis of the individual steps of protein splicing for the <i>Pyrococcus abyssi</i> PolII intein. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 2714-20	5.4	29
59	The mechanism of intein-mediated protein splicing: variations on a theme. <i>Protein and Peptide Letters</i> , <b>2005</b> , 12, 751-5	1.9	27
58	Internal disulfide bond acts as a switch for intein activity. <i>Biochemistry</i> , <b>2013</b> , 52, 5920-7	3.2	26
57	Salt-Dependent Conditional Protein Splicing of an Intein from <i>Halobacterium salinarum</i> . <i>Biochemistry</i> , <b>2016</b> , 55, 1279-82	3.2	23
56	Structural and mutational studies of a hyperthermophilic intein from DNA polymerase II of <i>Pyrococcus abyssi</i> . <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 38638-38648	5.4	23
55	Protein purification via temperature-dependent, intein-mediated cleavage from an immobilized metal affinity resin. <i>Analytical Biochemistry</i> , <b>2006</b> , 356, 86-93	3.1	11
54	Biochemical Mechanisms of Intein-Mediated Protein Splicing <b>2005</b> , 233-255		9
53	Intein-Promoted Cyclization of Aspartic Acid Flanking the Intein Leads to Atypical N-Terminal Cleavage. <i>Biochemistry</i> , <b>2017</b> , 56, 1042-1050	3.2	8
52	V67L Mutation Fills an Internal Cavity To Stabilize RecA Mtu Intein. <i>Biochemistry</i> , <b>2017</b> , 56, 2715-2722	3.2	8
51	Introducing Undergraduate Students to Electrochemistry: A Two-Week Discovery Chemistry Experiment. <i>Journal of Chemical Education</i> , <b>2008</b> , 85, 1116	2.4	8
50	Protein splicing of the three <i>Pyrococcus abyssi</i> ribonucleotide reductase inteins. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 387, 153-7	3.4	7
49	Thermochemical Analysis of Neutralization Reactions: An Introductory Discovery Experiment. <i>Journal of Chemical Education</i> , <b>2007</b> , 84, 326	2.4	7

48	A Discovery Chemistry Experiment on Buffers. <i>Journal of Chemical Education</i> , <b>2014</b> , 91, 1207-1211	2.4	5
47	Mechanism of protein splicing of the <i>Pyrococcus abyssi</i> lon protease intein. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 403, 457-61	3.4	4
46	<sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N NMR assignments of the <i>Pyrococcus abyssi</i> DNA polymerase II intein. <i>Biomolecular NMR Assignments</i> , <b>2011</b> , 5, 233-5	0.7	3
45	Data Pooling in a Chemical Kinetics Experiment: The Aquation of a Series of Cobalt(III) Complexes: A Discovery Chemistry Experiment. <i>Journal of Chemical Education</i> , <b>2008</b> , 85, 1120	2.4	2
44	Protein Splicing Activity of the PolB-c Intein Is Sensitive to Homing Endonuclease Domain Mutations. <i>Biochemistry</i> , <b>2020</b> , 59, 3359-3367	3.2	2
43	Allosteric Influence of Extremophile Hairpin Motif Mutations on the Protein Splicing Activity of a Hyperthermophilic Intein. <i>Biochemistry</i> , <b>2020</b> , 59, 2459-2467	3.2	1
42	Biochemistry in an undergraduate writing-intensive first-year program: Seminar courses in drugs and bioethics. <i>Biochemistry and Molecular Biology Education</i> , <b>2015</b> , 43, 263-72	1.3	1
41	Catalysis of individual steps of protein splicing of the <i>Pyrococcus abyssi</i> PolII intein. <i>FASEB Journal</i> , <b>2006</b> , 20, A40	0.9	1
40	Coordination of the third step of protein splicing in two cyanobacterial inteins. <i>FEBS Letters</i> , <b>2017</b> , 591, 2147-2154	3.8	0
39	Intein Inhibitors as Novel Antimicrobials: Protein Splicing in Human Pathogens, Screening Methods, and Off-Target Considerations. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 752824	5.6	0
38	Self-Splicing Proteins <b>2013</b> , 315-321		
37	Protein splicing of a non-canonical <i>Clostridium thermocellum</i> intein with N-terminal Gln. <i>FASEB Journal</i> , <b>2006</b> , 20, A964	0.9	
36	The dependence of three <i>P. abyssi</i> inteins on extein sequence for efficient protein splicing. <i>FASEB Journal</i> , <b>2008</b> , 22, 611.3	0.9	
35	Homing Endonuclease and Protein Splicing Activity of Inteins from Extreme Thermophiles. <i>FASEB Journal</i> , <b>2018</b> , 32, 655.7	0.9	
34	The Variable Salt Dependence of Mini-Inteins from <i>Haloquadratum walsbyi</i> . <i>FASEB Journal</i> , <b>2018</b> , 32, 655.22	0.9	
33	□The relationship of structural stability to temperature-dependent activity in a family of thermophilic inteins□ <i>FASEB Journal</i> , <b>2018</b> , 32, 655.15	0.9	
32	Conditional Protein Splicing of Inteins from Extremophiles. <i>FASEB Journal</i> , <b>2019</b> , 33, 633.20	0.9	
31	□Fitness Cost of Two Inteins in <i>Halobacterium salinarum</i> □ <i>FASEB Journal</i> , <b>2019</b> , 33, 633.9	0.9	

30	Falling Apart: the Self-Catalyzed Process of Protein Splicing. <i>FASEB Journal</i> , <b>2019</b> , 33, 633.4	0.9
29	Methods to Study the Structure and Catalytic Activity of cis-Splicing Inteins. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2133, 55-73	1.4
28	Structure and Activity of Inteins from <i>Pyrococcus abyssi</i> and <i>Pyrococcus horikoshii</i> . <i>FASEB Journal</i> , <b>2015</b> , 29, 722.4	0.9
27	Relating Intein Flexibility to the Temperature Dependence of Activity. <i>FASEB Journal</i> , <b>2015</b> , 29, 722.3	0.9
26	Integrating Biochemistry into a First-year Undergraduate Rhetoric-intensive Seminar Program. <i>FASEB Journal</i> , <b>2015</b> , 29, 559.1	0.9
25	The influence of extein residues on the protein splicing of three <i>Pyrococcus abyssi</i> inteins. <i>FASEB Journal</i> , <b>2009</b> , 23, 502.3	0.9
24	Alternate protein splicing mechanisms: A directed evolution approach. <i>FASEB Journal</i> , <b>2009</b> , 23, 502.4	0.9
23	Protein splicing of the <i>Pyrococcus abyssi</i> lon protease intein. <i>FASEB Journal</i> , <b>2009</b> , 23, 502.2	0.9
22	Manipulation of protein splicing side-reactions to facilitate protein purification and expressed protein ligation. <i>FASEB Journal</i> , <b>2010</b> , 24, 463.13	0.9
21	A kinetic analysis of each step of protein splicing of the <i>Pyrococcus abyssi</i> PolII intein. <i>FASEB Journal</i> , <b>2010</b> , 24, 463.5	0.9
20	Estimating the activation barrier to each step of protein splicing for the non-canonical <i>P. abyssi</i> PolII intein. <i>FASEB Journal</i> , <b>2010</b> , 24, 463.18	0.9
19	Non-canonical inteins: Alternate mechanisms for protein splicing. <i>FASEB Journal</i> , <b>2010</b> , 24, 463.12	0.9
18	Post-translational autoprocessing of a <i>Pyrococcus abyssi</i> intein and a <i>Cryptosporidium</i> hedgehog-like domain. <i>FASEB Journal</i> , <b>2011</b> , 25, 754.10	0.9
17	Determining the activation barrier and pH-dependence of each step of protein splicing. <i>FASEB Journal</i> , <b>2011</b> , 25, 520.6	0.9
16	The influence of conserved catalytic residues on the mechanism of protein splicing of the <i>Pyrococcus abyssi</i> PolII intein. <i>FASEB Journal</i> , <b>2011</b> , 25, 520.10	0.9
15	Post-translational autoprocessing by an <i>Oryza sativa</i> hedgehog-like domain. <i>FASEB Journal</i> , <b>2011</b> , 25, 754.16	0.9
14	Protein splicing facilitated by highly similar inteins from two extreme thermophiles. <i>FASEB Journal</i> , <b>2012</b> , 26, 756.4	0.9
13	Intein-mediated peptide bond cleavage adjacent to asparagine or glutamine. <i>FASEB Journal</i> , <b>2012</b> , 26, 963.6	0.9

12	Protein splicing of a temperature-dependent intein from an extreme thermophile. <i>FASEB Journal</i> , <b>2012</b> , 26, 756.3	0.9
11	Protein Splicing of inteins from <i>Synechococcus</i> sp. PCC 7002 and <i>Pyrococcus abyssi</i> . <i>FASEB Journal</i> , <b>2012</b> , 26, 756.5	0.9
10	Conditional protein splicing of inteins with a non-canonical C-terminal glutamine. <i>FASEB Journal</i> , <b>2012</b> , 26, 959.1	0.9
9	Expression and auto-processing of hedgehog-like proteins from <i>Brugia malayi</i> and <i>Cryptosporidium</i> . <i>FASEB Journal</i> , <b>2013</b> , 27, 789.4	0.9
8	Conditional protein splicing via disulfide bond formation. <i>FASEB Journal</i> , <b>2013</b> , 27, 789.3	0.9
7	Protein splicing of inteins from <i>Synechococcus</i> sp. PCC 7002 and <i>Trichodesmium erythraeum</i> . <i>FASEB Journal</i> , <b>2013</b> , 27, 789.7	0.9
6	Peptide bond cleavage adjacent to asparagine or glutamine. <i>FASEB Journal</i> , <b>2013</b> , 27, 789.6	0.9
5	The role of an extended beta-sheet in stabilizing the structure of a thermophilic intein. <i>FASEB Journal</i> , <b>2013</b> , 27, 1005.2	0.9
4	Structural analysis of an intein from an extreme thermophile. <i>FASEB Journal</i> , <b>2013</b> , 27, 1005.1	0.9
3	The structure, regulation and activity of non-canonical inteins. <i>FASEB Journal</i> , <b>2013</b> , 27, 998.2	0.9
2	Splicing of a non-canonical class three intein from <i>Clostridium thermocellum</i> . <i>FASEB Journal</i> , <b>2013</b> , 27, 789.5	0.9
1	An alternative domain-swapped structure of the <i>Pyrococcus horikoshii</i> PolII mini-intein. <i>Scientific Reports</i> , <b>2021</b> , 11, 11680	4.9