

Kenneth V Mills

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.

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	Intein Inhibitors as Novel Antimicrobials: Protein Splicing in Human Pathogens, Screening Methods, and Off-Target Considerations. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 752824	5.6	0
64	An alternative domain-swapped structure of the <i>Pyrococcus horikoshii</i> PolII mini-intein. <i>Scientific Reports</i> , 2021 , 11, 11680	4.9	
63	Allosteric Influence of Extremophile Hairpin Motif Mutations on the Protein Splicing Activity of a Hyperthermophilic Intein. <i>Biochemistry</i> , 2020 , 59, 2459-2467	3.2	1
62	Methods to Study the Structure and Catalytic Activity of cis-Splicing Inteins. <i>Methods in Molecular Biology</i> , 2020 , 2133, 55-73	1.4	
61	Protein Splicing Activity of the PolB-c Intein Is Sensitive to Homing Endonuclease Domain Mutations. <i>Biochemistry</i> , 2020 , 59, 3359-3367	3.2	2
60	Conditional Protein Splicing of Inteins from Extremophiles. <i>FASEB Journal</i> , 2019 , 33, 633.20	0.9	
59	Fitness Cost of Two Inteins in <i>Halobacterium salinarum</i> □ <i>FASEB Journal</i> , 2019 , 33, 633.9	0.9	
58	Falling Apart: the Self-Catalyzed Process of Protein Splicing. <i>FASEB Journal</i> , 2019 , 33, 633.4	0.9	
57	Homing Endonuclease and Protein Splicing Activity of Inteins from Extreme Thermophiles. <i>FASEB Journal</i> , 2018 , 32, 655.7	0.9	
56	The Variable Salt Dependence of Mini-Inteins from <i>Haloquadratum walsbyi</i> . <i>FASEB Journal</i> , 2018 , 32, 655.22	0.9	
55	□The relationship of structural stability to temperature-dependent activity in a family of thermophilic inteins □ <i>FASEB Journal</i> , 2018 , 32, 655.15	0.9	
54	Intein-Promoted Cyclization of Aspartic Acid Flanking the Intein Leads to Atypical N-Terminal Cleavage. <i>Biochemistry</i> , 2017 , 56, 1042-1050	3.2	8
53	V67L Mutation Fills an Internal Cavity To Stabilize RecA Mtu Intein. <i>Biochemistry</i> , 2017 , 56, 2715-2722	3.2	8
52	Coordination of the third step of protein splicing in two cyanobacterial inteins. <i>FEBS Letters</i> , 2017 , 591, 2147-2154	3.8	0
51	Salt-Dependent Conditional Protein Splicing of an Intein from <i>Halobacterium salinarum</i> . <i>Biochemistry</i> , 2016 , 55, 1279-82	3.2	23
50	Biochemistry in an undergraduate writing-intensive first-year program: Seminar courses in drugs and bioethics. <i>Biochemistry and Molecular Biology Education</i> , 2015 , 43, 263-72	1.3	1
49	Structure and Activity of Inteins from <i>Pyrococcus abyssi</i> and <i>Pyrococcus horikoshii</i> . <i>FASEB Journal</i> , 2015 , 29, 722.4	0.9	

48	Relating Intein Flexibility to the Temperature Dependence of Activity. <i>FASEB Journal</i> , 2015 , 29, 722.3	0.9	
47	Integrating Biochemistry into a First-year Undergraduate Rhetoric-intensive Seminar Program. <i>FASEB Journal</i> , 2015 , 29, 559.1	0.9	
46	Recent advances in in vivo applications of intein-mediated protein splicing. <i>Mobile DNA</i> , 2014 , 5, 5	4.4	63
45	A Discovery Chemistry Experiment on Buffers. <i>Journal of Chemical Education</i> , 2014 , 91, 1207-1211	2.4	5
44	Protein splicing: how inteins escape from precursor proteins. <i>Journal of Biological Chemistry</i> , 2014 , 289, 14498-505	5.4	82
43	Internal disulfide bond acts as a switch for intein activity. <i>Biochemistry</i> , 2013 , 52, 5920-7	3.2	26
42	Self-Splicing Proteins 2013 , 315-321		
41	Expression and auto-processing of hedgehog-like proteins from <i>Brugia malayi</i> and <i>Cryptosporidium</i> . <i>FASEB Journal</i> , 2013 , 27, 789.4	0.9	
40	Conditional protein splicing via disulfide bond formation. <i>FASEB Journal</i> , 2013 , 27, 789.3	0.9	
39	Protein splicing of inteins from <i>Synechococcus</i> sp. PCC 7002 and <i>Trichodesmium erythraeum</i> . <i>FASEB Journal</i> , 2013 , 27, 789.7	0.9	
38	Peptide bond cleavage adjacent to asparagine or glutamine. <i>FASEB Journal</i> , 2013 , 27, 789.6	0.9	
37	The role of an extended beta-sheet in stabilizing the structure of a thermophilic intein. <i>FASEB Journal</i> , 2013 , 27, 1005.2	0.9	
36	Structural analysis of an intein from an extreme thermophile. <i>FASEB Journal</i> , 2013 , 27, 1005.1	0.9	
35	The structure, regulation and activity of non-canonical inteins. <i>FASEB Journal</i> , 2013 , 27, 998.2	0.9	
34	Splicing of a non-canonical class three intein from <i>Clostridium thermocellum</i> . <i>FASEB Journal</i> , 2013 , 27, 789.5	0.9	
33	Intramolecular disulfide bond between catalytic cysteines in an intein precursor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2500-3	16.4	41
32	Protein splicing facilitated by highly similar inteins from two extreme thermophiles. <i>FASEB Journal</i> , 2012 , 26, 756.4	0.9	
31	Intein-mediated peptide bond cleavage adjacent to asparagine or glutamine. <i>FASEB Journal</i> , 2012 , 26, 963.6	0.9	

30	Protein splicing of a temperature-dependent intein from an extreme thermophile. <i>FASEB Journal</i> , 2012 , 26, 756.3	0.9	
29	Protein Splicing of inteins from <i>Synechococcus</i> sp. PCC 7002 and <i>Pyrococcus abyssi</i> . <i>FASEB Journal</i> , 2012 , 26, 756.5	0.9	
28	Conditional protein splicing of inteins with a non-canonical C-terminal glutamine. <i>FASEB Journal</i> , 2012 , 26, 959.1	0.9	
27	¹ H, ¹³ C, and ¹⁵ N NMR assignments of the <i>Pyrococcus abyssi</i> DNA polymerase II intein. <i>Biomolecular NMR Assignments</i> , 2011 , 5, 233-5	0.7	3
26	Structural and mutational studies of a hyperthermophilic intein from DNA polymerase II of <i>Pyrococcus abyssi</i> . <i>Journal of Biological Chemistry</i> , 2011 , 286, 38638-38648	5.4	23
25	Post-translational autoprocessing of a <i>Pyrococcus abyssi</i> intein and a <i>Cryptosporidium</i> hedgehog-like domain. <i>FASEB Journal</i> , 2011 , 25, 754.10	0.9	
24	Determining the activation barrier and pH-dependence of each step of protein splicing. <i>FASEB Journal</i> , 2011 , 25, 520.6	0.9	
23	The influence of conserved catalytic residues on the mechanism of protein splicing of the <i>Pyrococcus abyssi</i> PolII intein. <i>FASEB Journal</i> , 2011 , 25, 520.10	0.9	
22	Post-translational autoprocessing by an <i>Oryza sativa</i> hedgehog-like domain. <i>FASEB Journal</i> , 2011 , 25, 754.16	0.9	
21	Mechanism of protein splicing of the <i>Pyrococcus abyssi</i> lon protease intein. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 403, 457-61	3.4	4
20	Manipulation of protein splicing side-reactions to facilitate protein purification and expressed protein ligation. <i>FASEB Journal</i> , 2010 , 24, 463.13	0.9	
19	A kinetic analysis of each step of protein splicing of the <i>Pyrococcus abyssi</i> PolII intein. <i>FASEB Journal</i> , 2010 , 24, 463.5	0.9	
18	Estimating the activation barrier to each step of protein splicing for the non-canonical <i>P. abyssi</i> PolII intein. <i>FASEB Journal</i> , 2010 , 24, 463.18	0.9	
17	Non-canonical inteins: Alternate mechanisms for protein splicing. <i>FASEB Journal</i> , 2010 , 24, 463.12	0.9	
16	Protein splicing of the three <i>Pyrococcus abyssi</i> ribonucleotide reductase inteins. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 153-7	3.4	7
15	The influence of extein residues on the protein splicing of three <i>Pyrococcus abyssi</i> inteins. <i>FASEB Journal</i> , 2009 , 23, 502.3	0.9	
14	Alternate protein splicing mechanisms: A directed evolution approach. <i>FASEB Journal</i> , 2009 , 23, 502.4	0.9	
13	Protein splicing of the <i>Pyrococcus abyssi</i> lon protease intein. <i>FASEB Journal</i> , 2009 , 23, 502.2	0.9	

12	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> , 2008 , 85, 1120	2.4	2
11	Introducing Undergraduate Students to Electrochemistry: A Two-Week Discovery Chemistry Experiment. <i>Journal of Chemical Education</i> , 2008 , 85, 1116	2.4	8
10	The dependence of three P. abyssi inteins on extein sequence for efficient protein splicing. <i>FASEB Journal</i> , 2008 , 22, 611.3	0.9	
9	Thermochemical Analysis of Neutralization Reactions: An Introductory Discovery Experiment. <i>Journal of Chemical Education</i> , 2007 , 84, 326	2.4	7
8	Protein purification via temperature-dependent, intein-mediated cleavage from an immobilized metal affinity resin. <i>Analytical Biochemistry</i> , 2006 , 356, 86-93	3.1	11
7	Protein splicing of a non-canonical Clostridium thermocellum intein with N-terminal Gln. <i>FASEB Journal</i> , 2006 , 20, A964	0.9	
6	Catalysis of individual steps of protein splicing of the Pyrococcus abyssi PolII intein. <i>FASEB Journal</i> , 2006 , 20, A40	0.9	1
5	Kinetic analysis of the individual steps of protein splicing for the Pyrococcus abyssi PolII intein. <i>Journal of Biological Chemistry</i> , 2005 , 280, 2714-20	5.4	29
4	The mechanism of intein-mediated protein splicing: variations on a theme. <i>Protein and Peptide Letters</i> , 2005 , 12, 751-5	1.9	27
3	Biochemical Mechanisms of Intein-Mediated Protein Splicing 2005 , 233-255		9
2	Protein splicing of a Pyrococcus abyssi intein with a C-terminal glutamine. <i>Journal of Biological Chemistry</i> , 2004 , 279, 20685-91	5.4	47
1	Reversible inhibition of protein splicing by zinc ion. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10832-8	5.4	55