# Kenneth V Mills

List of Publications by Year
in descending order

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| 73 | 605 | 840776 | 610901 |
|---|---|---|---|
| papers | citations | 11 h-index | 24 g-index |

| 74 | 74 | 74 | 482 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Protein Splicing: How Inteins Escape from Precursor Proteins. Journal of Biological Chemistry, 2014, 289, 14498-14505. | 3.4 | 115 |
| 2 | Recent advances in in vivo applications of intein-mediated protein splicing. Mobile DNA, 2014, 5, 5. | 3.6 | 85 |
| 3 | Reversible Inhibition of Protein Splicing by Zinc Ion. Journal of Biological Chemistry, 2001, 276, 10832-10838. | 3.4 | 66 |
| 4 | Protein Splicing of a Pyrococcus abyssi Intein with a C-terminal Glutamine. Journal of Biological Chemistry, 2004, 279, 20685-20691. | 3.4 | 50 |
| 5 | Intramolecular Disulfide Bond between Catalytic Cysteines in an Intein Precursor. Journal of the American Chemical Society, 2012, 134, 2500-2503. | 13.7 | 44 |
| 6 | Kinetic Analysis of the Individual Steps of Protein Splicing for the Pyrococcus abyssi PolII Intein. Journal of Biological Chemistry, 2005, 280, 2714-2720. | 3.4 | 31 |
| 7 | The Mechanism of Intein-Mediated Protein Splicing: Variations on a Theme. Protein and Peptide Letters, 2005, 12, 751-755. | 0.9 | 30 |
| 8 | Internal Disulfide Bond Acts as a Switch for Intein Activity. Biochemistry, 2013, 52, 5920-5927. | 2.5 | 30 |
| 9 | Salt-Dependent Conditional Protein Splicing of an Intein from Halobacterium salinarum. Biochemistry, 2016, 55, 1279-1282. | 2.5 | 29 |
| 10 | Structural and Mutational Studies of a Hyperthermophilic Intein from DNA Polymerase II of Pyrococcus abyssi. Journal of Biological Chemistry, 2011, 286, 38638-38648. | 3.4 | 27 |
| 11 | Protein purification via temperature-dependent, intein-mediated cleavage from an immobilized metal affinity resin. Analytical Biochemistry, 2006, 356, 86-93. | 2.4 | 11 |
| 12 | Biochemical Mechanisms of Intein-Mediated Protein Splicing. , 2005, , 233-255. | | 10 |
| 13 | Intein-Promoted Cyclization of Aspartic Acid Flanking the Intein Leads to Atypical N-Terminal Cleavage. Biochemistry, 2017, 56, 1042-1050. | 2.5 | 10 |
| 14 | V67L Mutation Fills an Internal Cavity To Stabilize RecA Mtu Intein. Biochemistry, 2017, 56, 2715-2722. | 2.5 | 9 |
| 15 | Thermochemical Analysis of Neutralization Reactions: An Introductory Discovery Experiment. Journal of Chemical Education, 2007, 84, 326. | 2.3 | 8 |
| 16 | Introducing Undergraduate Students to Electrochemistry: A Two-Week Discovery Chemistry Experiment. Journal of Chemical Education, 2008, 85, 1116. | 2.3 | 8 |
| 17 | Protein splicing of the three Pyrococcus abyssi ribonucleotide reductase inteins. Biochemical and Biophysical Research Communications, 2009, 387, 153-157. | 2.1 | 8 |
| 18 | A Discovery Chemistry Experiment on Buffers. Journal of Chemical Education, 2014, 91, 1207-1211. | 2.3 | 8 |

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|---|---|---|---|
| 19 | Protein Splicing Activity of the Haloferax volcanii PolB-c Intein Is Sensitive to Homing Endonuclease Domain Mutations. Biochemistry, 2020, 59, 3359-3367. | 2.5 | 5 |
| 20 | Intein Inhibitors as Novel Antimicrobials: Protein Splicing in Human Pathogens, Screening Methods, and Off-Target Considerations. Frontiers in Molecular Biosciences, 2021, 8, 752824. | 3.5 | 5 |
| 21 | Mechanism of protein splicing of the Pyrococcus abyssi lon protease intein. Biochemical and Biophysical Research Communications, 2010, 403, 457-461. | 2.1 | 4 |
| 22 | Data Pooling in a Chemical Kinetics Experiment: The Aquation of a Series of Cobalt(III) Complexes: A Discovery Chemistry Experiment. Journal of Chemical Education, 2008, 85, 1120. | 2.3 | 3 |
| 23 | 1H, 13C, and 15N NMR assignments of the Pyrococcus abyssi DNA polymerase II intein. Biomolecular NMR Assignments, 2011, 5, 233-235. | 0.8 | 3 |
| 24 | Biochemistry in an undergraduate writingâ€intensive firstâ€year program: Seminar courses in drugs and bioethics. Biochemistry and Molecular Biology Education, 2015, 43, 263-272. | 1.2 | 1 |
| 25 | Coordination of the third step of protein splicing in two cyanobacterial inteins. FEBS Letters, 2017, 591, 2147-2154. | 2.8 | 1 |
| 26 | Allosteric Influence of Extremophile Hairpin Motif Mutations on the Protein Splicing Activity of a Hyperthermophilic Intein. Biochemistry, 2020, 59, 2459-2467. | 2.5 | 1 |
| 27 | An alternative domain-swapped structure of the Pyrococcus horikoshii PolII mini-intein. Scientific Reports, 2021, 11, 11680. | 3.3 | 1 |
| 28 | Catalysis of individual steps of protein splicing of the Pyrococcus abyssi PolII intein. FASEB Journal, 2006, 20, A40. | 0.5 | 1 |
| 29 | Conditional Alternative Protein Splicing Promoted by Inteins from Haloquadratum walsbyi. Biochemistry, 2022, , . | 2.5 | 1 |
| 30 | Self-Splicing Proteins. , 2013, , 315-321. | | 0 |
| 31 | Protein splicing of a nonâ€canonical Clostridium thermocellum intein with Nâ€terminal Gln. FASEB Journal, 2006, 20, A964. | 0.5 | 0 |
| 32 | The dependence of three P. abyssi inteins on extein sequence for efficient protein splicing. FASEB Journal, 2008, 22, 611.3. | 0.5 | 0 |
| 33 | The influence of extein residues on the protein splicing of three Pyrococcus abyssi inteins. FASEB Journal, 2009, 23, 502.3. | 0.5 | 0 |
| 34 | Alternate protein splicing mechanisms: A directed evolution approach. FASEB Journal, 2009, 23, 502.4. | 0.5 | 0 |
| 35 | Protein splicing of the Pyrococcus abyssi lon protease intein. FASEB Journal, 2009, 23, 502.2. | 0.5 | 0 |
| 36 | Manipulation of protein splicing sideâ€reactions to facilitate protein purification and expressed protein ligation. FASEB Journal, 2010, 24, 463.13. | 0.5 | 0 |

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| 37 | A kinetic analysis of each step of protein splicing of the Pyrococcus abyssi PolII intein. FASEB Journal, 2010, 24, 463.5. | 0.5 | 0 |
| 38 | Estimating the activation barrier to each step of protein splicing for the nonâ€canonical P. abyssi PolII intein. FASEB Journal, 2010, 24, 463.18. | 0.5 | 0 |
| 39 | Nonâ€canonical inteins: Alternate mechanisms for protein splicing. FASEB Journal, 2010, 24, 463.12. | 0.5 | 0 |
| 40 | Postâ€translational autoprocessing of a Pyrococcus abyssi intein and a Cryptosporidium hedgehogâ€like domain. FASEB Journal, 2011, 25, 754.10. | 0.5 | 0 |
| 41 | Nonâ€canonical inteins: Alternate mechanisms for protein splicing. FASEB Journal, 2011, 25, . | 0.5 | 0 |
| 42 | Utilizing a protein splicing side reaction to generate a fragment for expressed protein ligation. FASEB Journal, 2011, 25, . | 0.5 | 0 |
| 43 | Determining the activation barrier and pHâ€dependence of each step of protein splicing. FASEB Journal, 2011, 25, 520.6. | 0.5 | 0 |
| 44 | The influence of conserved catalytic residues on the mechanism of protein splicing of the Pyrococcus abyssi PolII intein. FASEB Journal, 2011, 25, 520.10. | 0.5 | 0 |
| 45 | Postâ€translational autoprocessing by an Oryza sativa hedgehogâ€like domain. FASEB Journal, 2011, 25, 754.16. | 0.5 | 0 |
| 46 | Protein splicing facilitated by highly similar inteins from two extreme thermophiles. FASEB Journal, 2012, 26, 756.4. | 0.5 | 0 |
| 47 | Inteinâ€mediated peptide bond cleavage adjacent to aspargine or glutamine. FASEB Journal, 2012, 26, 963.6. | 0.5 | 0 |
| 48 | Protein splicing of a temperatureâ€dependent intein from an extreme thermophile. FASEB Journal, 2012, 26, 756.3. | 0.5 | 0 |
| 49 | Protein Splicing of inteins from Synechococcus sp. PCC 7002 and Pyrococcus abyssi. FASEB Journal, 2012, 26, 756.5. | 0.5 | 0 |
| 50 | Nonâ€canonical inteins: Protein splicing by alternate mechanisms. FASEB Journal, 2012, 26, . | 0.5 | 0 |
| 51 | Expression and autoâ€processing of hedgehogâ€like proteins from Brugia malayi. FASEB Journal, 2012, 26, . | 0.5 | 0 |
| 52 | Sideâ€chain cyclization of Gln or Asn residues coupled to peptide bond cleavage in an intein and a model peptide. FASEB Journal, 2012, 26, . | 0.5 | 0 |
| 53 | Conditional protein splicing of inteins with a nonâ€canonical Câ€terminal glutamine. FASEB Journal, 2012, 26, 959.1. | 0.5 | 0 |
| 54 | Expression and autoâ€processing of hedgehogâ€like proteins from Brugia malayi and Cryptosporidium. FASEB Journal, 2013, 27, 789.4. | 0.5 | 0 |

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| 55 | Conditional protein splicing via disulfide bond formation. FASEB Journal, 2013, 27, 789.3. | 0.5 | 0 |
| 56 | Protein splicing of inteins from Synechococcus sp. PCC 7002 and Trichodesmium erythraeum. FASEB Journal, 2013, 27, 789.7. | 0.5 | 0 |
| 57 | Peptide bond cleavage adjacent to aspargine or glutamine. FASEB Journal, 2013, 27, 789.6. | 0.5 | 0 |
| 58 | The role of an extended betaâ€sheet in stabilizing the structure of a thermophilic intein. FASEB Journal, 2013, 27, 1005.2. | 0.5 | 0 |
| 59 | Structural analysis of an intein from an extreme thermophile. FASEB Journal, 2013, 27, 1005.1. | 0.5 | 0 |
| 60 | The structure, regulation and activity of nonâ€canonical inteins. FASEB Journal, 2013, 27, 998.2. | 0.5 | 0 |
| 61 | Splicing of a nonâ€canonical class three intein from Clostridium thermocellum. FASEB Journal, 2013, 27, 789.5. | 0.5 | 0 |
| 62 | Structure and Activity of Inteins from Pyrococcus abyssi and Pyrococcus horikoshii. FASEB Journal, 2015, 29, 722.4. | 0.5 | 0 |
| 63 | Relating Intein Flexibility to the Temperature Dependence of Activity. FASEB Journal, 2015, 29, 722.3. | 0.5 | 0 |
| 64 | Integrating Biochemistry into a Firstâ€year Undergraduate Rhetoricâ€intensive Seminar Program. FASEB Journal, 2015, 29, 559.1. | 0.5 | 0 |
| 65 | The Influence of Conserved Residues and Structural Elements on the Stability and Activity of a Thermophilic Intein. FASEB Journal, 2016, 30, . | 0.5 | 0 |
| 66 | Homing Endonuclease and Protein Splicing Activity of Inteins from Extreme Thermophiles. FASEB Journal, 2018, 32, 655.7. | 0.5 | 0 |
| 67 | The Variable Salt Dependence of Miniâ€inteins from Haloquadratum walsbyi. FASEB Journal, 2018, 32, 655.22. | 0.5 | 0 |
| 68 | â€œThe relationship of structural stability to temperatureâ€dependent activity in a family of thermophilic inteinsâ€. FASEB Journal, 2018, 32, 655.15. | 0.5 | 0 |
| 69 | Saltâ€Dependent Protein Splicing: In Vitro Enzymology and In vivo Physiological Relevance. FASEB Journal, 2018, 32, . | 0.5 | 0 |
| 70 | Conditional Protein Splicing of Inteins from Extremophiles. FASEB Journal, 2019, 33, 633.20. | 0.5 | 0 |
| 71 | â€œFitness Cost of Two Inteins in Halobacterium salinarum â€. FASEB Journal, 2019, 33, 633.9. | 0.5 | 0 |
| 72 | Falling Apart: the Selfâ€Catalyzed Process of Protein Splicing. FASEB Journal, 2019, 33, 633.4. | 0.5 | 0 |

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| 73 | Methods to Study the Structure and Catalytic Activity of cis-Splicing Inteins. Methods in Molecular Biology, 2020, 2133, 55-73. | 0.9 | 0 |