

# Vladimir Kubyshkin

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,235  
citations

394286

19  
h-index

395590

33  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1473  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Residue-Specific Exchange of Proline by Proline Analogs in Fluorescent Proteins: How "Molecular Surgery" of the Backbone Affects Folding and Stability. <i>Journal of Visualized Experiments</i> , 2022, , . | 0.2 | 2         |
| 2  | How To Quantify a Genetic Firewall? A Polarity-Based Metric for Genetic Code Engineering. <i>ChemBioChem</i> , 2021, 22, 1268-1284.  | 1.3 | 7         |
| 3  | Multimiomics Analysis Provides Insight into the Laboratory Evolution of <i>Escherichia coli</i> toward the Metabolic Usage of Fluorinated Indoles. <i>ACS Central Science</i> , 2021, 7, 81-92.              | 5.3 | 27        |
| 4  | Experimental lipophilicity scale for coded and noncoded amino acid residues. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7031-7040.  | 1.5 | 11        |
| 5  | Biochemistry of fluoroproline: the prospect of making fluorine a bioelement. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 439-460.  | 1.3 | 15        |
| 6  | Remarkably high solvatochromism in the circular dichroism spectra of the polyproline-II conformation: limitations or new opportunities?. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26931-26939. | 1.3 | 3         |
| 7  | Conjugation of Synthetic Polyproline Moieties to Lipid II Binding Fragments of Nisin Yields Active and Stable Antimicrobials. <i>Frontiers in Microbiology</i> , 2020, 11, 575334.                           | 1.5 | 9         |
| 8  | Polarity effects in 4-fluoro- and 4-(trifluoromethyl)prolines. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 1837-1852.  | 1.3 | 12        |
| 9  | Xenobiology: A Journey towards Parallel Life Forms. <i>ChemBioChem</i> , 2020, 21, 2228-2231.  | 1.3 | 10        |
| 10 | Anticipating alien cells with alternative genetic codes: away from the alanine world!. <i>Current Opinion in Biotechnology</i> , 2019, 60, 242-249.  | 3.3 | 23        |
| 11 | The Alanine World Model for the Development of the Amino Acid Repertoire in Protein Biosynthesis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5507.                                       | 1.8 | 23        |
| 12 | Stabilization of the triple helix in collagen mimicking peptides. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8031-8047.   | 1.5 | 25        |
| 13 | Promotion of the collagen triple helix in a hydrophobic environment. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 2502-2507.  | 1.5 | 7         |
| 14 | Bilayer thickness determines the alignment of model polyproline helices in lipid membranes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22396-22408.  | 1.3 | 7         |
| 15 | Exploring hydrophobicity limits of polyproline helix with oligomeric octahydroindole-2-carboxylic acid. <i>Journal of Peptide Science</i> , 2018, 24, e3076.   | 0.8 | 13        |
| 16 | Transmembrane Polyproline Helix. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2170-2174.  | 2.1 | 15        |
| 17 | Synthesis of Multifunctional Spirocyclic Azetidines and Their Application in Drug Discovery. <i>Chemistry - A European Journal</i> , 2018, 24, 5444-5449.  | 1.7 | 56        |
| 18 | Synthesis of a Photo-Caged DOPA Derivative by Selective Alkylation of 3,4-Dihydroxybenzaldehyde. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2053-2063.                                       | 1.2 | 8         |

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|----|--|-----|-----------|
| 19 | On universal coding events in protein biogenesis. <i>BioSystems</i> , 2018, 164, 16-25.  | 0.9 | 26        |
| 20 | Comparative effects of trifluoromethyl- and methyl-group substitutions in proline. <i>New Journal of Chemistry</i> , 2018, 42, 13461-13470.  | 1.4 | 17        |
| 21 | Biocatalysis with Unnatural Amino Acids: Enzymology Meets Xenobiology. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9680-9703.   | 7.2 | 164       |
| 22 | Biokatalyse mit nichtnatürlichen Aminosäuren: Enzymologie trifft Xenobiologie. <i>Angewandte Chemie</i> , 2017, 129, 9810-9835.  | 1.6 | 33        |
| 23 | The Regioselective Synthesis of o-Nitrobenzyl DOPA Derivatives. <i>Synthesis</i> , 2017, 49, 2691-2699.  | 1.2 | 11        |
| 24 | Conformational Plasticity of the Cell-Penetrating Peptide SAP As Revealed by Solid-State 19F-NMR and Circular Dichroism Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6479-6491.         | 1.2 | 15        |
| 25 | Peptidyl-Prolyl Model Study: How Does the Electronic Effect Influence the Amide Bond Conformation?. <i>Journal of Organic Chemistry</i> , 2017, 82, 8831-8841.   | 1.7 | 36        |
| 26 | Construction of a polyproline structure with hydrophobic exterior using octahydroindole-2-carboxylic acid. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 619-627.                                      | 1.5 | 23        |
| 27 | Frontispiece: Selective <sup>19</sup> F-Labeling of Functionalized Carboxylic Acids with Difluoromethyl Diazomethane (CF <sub>2</sub> HCHN <sub>2</sub> ). <i>Chemistry - A European Journal</i> , 2017, 23, . | 1.7 | 0         |
| 28 | Amide rotation trajectories probed by symmetry. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6764-6772.   | 1.5 | 12        |
| 29 | Synthetic alienation of microbial organisms by using genetic code engineering: Why and how?. <i>Biotechnology Journal</i> , 2017, 12, 1600097.   | 1.8 | 23        |
| 30 | Selective <sup>19</sup> F-Labeling of Functionalized Carboxylic Acids with Difluoromethyl Diazomethane (CF <sub>2</sub> HCHN <sub>2</sub> ). <i>Chemistry - A European Journal</i> , 2017, 23, 13279-13283.    | 1.7 | 22        |
| 31 | Hydrolysis, polarity, and conformational impact of C-terminal partially fluorinated ethyl esters in peptide models. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2442-2457.                       | 1.3 | 14        |
| 32 | <i>cis</i> - <i>trans</i> -Amide isomerism of the 3,4-dehydroproline residue, the "unpuckered" proline. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 589-593.                                     | 1.3 | 13        |
| 33 | Energetic contribution to both acidity and conformational stability in peptide models. <i>New Journal of Chemistry</i> , 2016, 40, 5209-5220.  | 1.4 | 28        |
| 34 | A base promoted multigram synthesis of aminoisoxazoles: valuable building blocks for drug discovery and peptidomimetics. <i>RSC Advances</i> , 2016, 6, 25713-25723.   | 1.7 | 30        |
| 35 | Lipase kinetic enantiomeric resolution of 1-heteroarylethanol. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 341-345.  | 1.8 | 8         |
| 36 | <sup>13</sup> (S)-Trifluoromethyl proline: evaluation as a structural substitute of proline for solid state 19F-NMR peptide studies. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 3171-3181.          | 1.5 | 56        |

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|----|--|-----|-----------|
| 37 | Synthesis and studies on gem-fluorinated 2-azabicyclo[n.1.0]alkanes. Journal of Fluorine Chemistry, 2015, 175, 73-83.  | 0.9 | 20        |
| 38 | Entropic Contribution of Elongation Factor P to Proline Positioning at the Catalytic Center of the Ribosome. Journal of the American Chemical Society, 2015, 137, 12997-13006.                             | 6.6 | 88        |
| 39 | Applying $^{13}\text{C}$ -Substituted Prolines in the <i>Foldon</i> Peptide: Polarity Contradicts Preorganization. ChemBioChem, 2015, 16, 403-406.   | 1.3 | 14        |
| 40 | Fluorine-Rich Planetary Environments as Possible Habitats for Life. Life, 2014, 4, 374-385.  | 1.1 | 19        |
| 41 | Controlling Biological Activity with Light: Diarylethene-Containing Cyclic Peptidomimetics. Angewandte Chemie - International Edition, 2014, 53, 3392-3395.  | 7.2 | 140       |
| 42 | Enzymatic resolution of chroman-4-ol and its core analogues with Burkholderia cepacia lipase. Tetrahedron: Asymmetry, 2014, 25, 563-567.   | 1.8 | 12        |
| 43 | A $^{19}\text{F}$ -NMR Label to Substitute Polar Amino Acids in Peptides: A $^{13}\text{C}$ -Substituted Analogue of Serine and Threonine. Angewandte Chemie - International Edition, 2013, 52, 1486-1489. | 7.2 | 48        |
| 44 | Incorporation of labile trans-4,5-difluoromethanoproline into a peptide as a stable label for $^{19}\text{F}$ NMR structure analysis. Journal of Fluorine Chemistry, 2013, 152, 136-143.                   | 0.9 | 29        |
| 45 | Incorporation of cis- and trans-4,5-Difluoromethanoprolines into Polypeptides. Organic Letters, 2012, 14, 5254-5257.   | 2.4 | 44        |
| 46 | Synthesis of a Conformationally Rigid Analogue of 2-Aminoadipic Acid Containing an 8-Azabicyclo[3.2.1]octane Skeleton. Synthesis, 2009, 2009, 3327-3331.   | 1.2 | 1         |
| 47 | Synthesis of 7-azabicyclo[2.2.1]heptane-1,4-dicarboxylic acid, a rigid non-chiral analogue of 2-aminoadipic acid. Tetrahedron Letters, 2007, 48, 4061-4063.  | 0.7 | 16        |
| 48 | Application of (4 <i>R</i> )-aminoproline in peptide engineering: conformational bias and pH-responsiveness revisited. New Journal of Chemistry, 0, , .  | 1.4 | 0         |