Markus Fischer

List of Publications by Year
in descending order

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294 papers	8,164 citations	50276 46 h-index	91884 69 g-index
307 all docs	307 docs citations	307 times ranked	8174 citing authors

#	Article	IF	Citations
1	Molecular basis for the herbicide resistance of Roundup Ready crops. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13010-13015.	7.1	300
2	Cold-induced conversion of cholesterol to bile acids in mice shapes the gut microbiome and promotes adaptive thermogenesis. Nature Medicine, 2017, 23, 839-849.	30.7	225
3	X-ray structure analysis and crystallographic refinement of lumazine synthase from the hyperthermophile Aquifex aeolicus at 1.6 Ã... resolution: determinants of thermostability revealed from structural comparisons. Journal of Molecular Biology, 2001, 306, 1099-1114.	4.2	179
4	Biosynthesis of flavocoenzymes. Natural Product Reports, 2005, 22, 324.	10.3	165
5	Biochemical, Serological, and Virulence Characterization of Clinical and Oyster Vibrio parahaemolyticus Isolates. Journal of Clinical Microbiology, 2012, 50, 2343-2352.	3.9	145
6	A Metastable Prerequisite for the Growth of Lumazine Synthase Crystals. Journal of the American Chemical Society, 2005, 127, 3433-3438.	13.7	136
7	A brilliant monomeric red fluorescent protein to visualize cytoskeleton dynamics inDictyostelium. FEBS Letters, 2004, 577, 227-232.	2.8	135
8	On the Reaction Mechanism of Adduct Formation in LOV Domains of the Plant Blue-Light Receptor Phototropin. Journal of the American Chemical Society, 2004, 126, 11067-11076.	13.7	127
9	Thermogenic adipocytes promote HDL turnover and reverse cholesterol transport. Nature Communications, 2017, 8, 15010.	12.8	117
10	Blue Light Perception in Plants. Journal of Biological Chemistry, 2003, 278, 10973-10982.	3.4	101
11	Biosynthesis of riboflavin. Vitamins and Hormones, 2001, 61, 1-49.	1.7	90
12	The atomic structure of pentameric lumazine synthase from Saccharomyces cerevisiae at 1.85 Ã... resolution reveals the binding mode of a phosphonate intermediate analogue 1 1Edited by R. Huber. Journal of Molecular Biology, 2000, 299, 181-197.	4.2	85
13	Rapid Mercury(II) Removal by Electrospun Sulfur Copolymers. Polymers, 2016, 8, 266.	4.5	82
14	Application of a Liquid Chromatography Tandem Mass Spectrometry Method for the Simultaneous Detection of Seven Allergenic Foods in Flour and Bread and Comparison of the Method with Commercially Available ELISA Test Kits. Journal of AOAC INTERNATIONAL, 2011, 94, 1060-1068.	1.5	81
15	Folate synthesis in plants: The first step of the pterin branch is mediated by a unique bimodular GTP cyclohydrolase I. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12489-12494.	7.1	80
16	Biosynthesis of Riboflavin. Journal of Biological Chemistry, 1996, 271, 33201-33207.	3.4	77
17	Synthesis of Nanophase Iron Oxide in Lumazine Synthase Capsids. Angewandte Chemie - International Edition, 2001, 40, 442-445.	13.8	74
18	Biosynthesis of vitamin B2: Structure and mechanism of riboflavin synthase. Archives of Biochemistry and Biophysics, 2008, 474, 252-265.	3.0	73

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19	Biosynthesis of Pteridines. Reaction Mechanism of GTP Cyclohydrolase I. Journal of Molecular Biology, 2003, 326, 503-516.	4.2	70
20	Crystal Structure of Lumazine Synthase fromMycobacterium tuberculosisas a Target for Rational Drug Design:Â Binding Mode of a New Class of Purinetrione Inhibitorsâ€‚â€¡. Biochemistry, 2005, 44, 2746-2758.	2.5	70
21	Food Fingerprinting: Metabolomic Approaches for Geographical Origin Discrimination of Hazelnuts (Corylus avellana) by UPLC-QTOF-MS. Journal of Agricultural and Food Chemistry, 2016, 64, 9253-9262.	5.2	70
22	Studies on the Reaction Mechanism of Riboflavin Synthase. Structure, 2002, 10, 1371-1381.	3.3	66
23	Thiazolopyrimidine Inhibitors of 2â€‰Methylerythritol 2,4â€‰Cyclodiphosphate Synthase (IspF) from Mycobacterium tuberculosis and Plasmodium falciparum. ChemMedChem, 2010, 5, 1092-1101.	3.2	66
24	The lumazine synthase/riboflavin synthase complex: shapes and functions of a highly variable enzyme system. FEBS Journal, 2013, 280, 2537-2563.	4.7	66
25	The Structural Basis of Riboflavin Binding to Schizosaccharomyces pombe 6,7-Dimethyl-8-ribityllumazine Synthase. Journal of Molecular Biology, 2002, 318, 1317-1329.	4.2	64
26	A novel solid phase technology for high-throughput gene synthesis. BioTechniques, 2008, 45, 340-343.	1.8	64
27	Biosynthesis of vitamin B2 in plants. Physiologia Plantarum, 2006, 126, 304-318.	5.2	62
28	Omics approaches for food authentication. Electrophoresis, 2018, 39, 1569-1581.	2.4	61
29	Food monitoring: Screening of the geographical origin of white asparagus using FT-NIR and machine learning. Food Control, 2019, 104, 318-325.	5.5	61
30	A liquid chromatography-tandem mass spectrometry-based method for the simultaneous determination of hydroxy sterols and bile acids. Journal of Chromatography A, 2014, 1371, 184-195.	3.7	60
31	Aptamer lateral flow assays for rapid and sensitive detection of cholera toxin. Analyst, The, 2019, 144, 1840-1849.	3.5	57
32	A Structure-based Model of the Reaction Catalyzed by Lumazine Synthase from Aquifex aeolicus. Journal of Molecular Biology, 2003, 328, 167-182.	4.2	56
33	Lumazine Synthase from Candida albicans as an Anti-fungal Target Enzyme. Journal of Biological Chemistry, 2007, 282, 17231-17241.	3.4	55
34	Mechanistic Insights on Riboflavin Synthase Inspired by Selective Binding of the 6,7-Dimethyl-8-ribityllumazine Exomethylene Anion. Journal of the American Chemical Society, 2010, 132, 2983-2990.	13.7	55
35	Reverse Fosmidomycin Derivatives against the Antimalarial Drug Target IspC (Dxr). Journal of Medicinal Chemistry, 2011, 54, 6796-6802.	6.4	55
36	Nonmevalonate Terpene Biosynthesis Enzymes as Antiinfective Drug Targets:Â Substrate Synthesis and High-Throughput Screening Methods. Journal of Organic Chemistry, 2006, 71, 8824-8834.	3.2	54

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37	Design, Synthesis, and Evaluation of 9-d-Ribitylamino-1,3,7,9-tetrahydro-2,6,8-purinetriones Bearing Alkyl Phosphate and Î±,Î±-Difluorophosphonate Substituents as Inhibitors of Riboflavin Synthase and Lumazine Synthase. Journal of Organic Chemistry, 2004, 69, 601-612.	3.2	53
38	Pseudilins: Halogenated, Allosteric Inhibitors of the Nonâ€Mevalonate Pathway Enzyme IspD. Angewandte Chemie - International Edition, 2014, 53, 2235-2239.	13.8	53
39	Food Targeting: Geographical Origin Determination of Hazelnuts (Corylus avellana) by LC-QqQ-MS/MS-Based Targeted Metabolomics Application. Journal of Agricultural and Food Chemistry, 2017, 65, 1456-1465.	5.2	53
40	Loop-Mediated Isothermal Amplification (LAMP)-Based Method for Rapid Mushroom Species Identification. Journal of Agricultural and Food Chemistry, 2013, 61, 1833-1840.	5.2	52
41	Prevalence of Hemolysin Genes and Comparison of ehxA Subtype Patterns in Shiga Toxin-Producing Escherichia coli (STEC) and Non-STEC Strains from Clinical, Food, and Animal Sources. Applied and Environmental Microbiology, 2013, 79, 6301-6311.	3.1	52
42	Crystal Structure of Schizosaccharomyces pombe Riboflavin Kinase Reveals a Novel ATP and Riboflavin-Binding Fold. Journal of Molecular Biology, 2003, 326, 1463-1473.	4.2	51
43	Crystal Structures of Oxidized and Reduced Stellacyanin from Horseradish Rootsâ€. Journal of the American Chemical Society, 2005, 127, 158-166.	13.7	51
44	Field Effect of Screened Charges: Electrical Detection of Peptides and Proteins by a Thin-Film Resistor. ChemPhysChem, 2006, 7, 379-384.	2.1	51
45	Yersinia Protein Kinase YopO Is Activated by A Novel G-actin Binding Process. Journal of Biological Chemistry, 2007, 282, 2268-2277.	3.4	50
46	Structure and Properties of an Engineered Transketolase from Maize. Plant Physiology, 2003, 132, 1941-1949.	4.8	49
47	Just in Time-Selection: A Rapid Semiautomated SELEX of DNA Aptamers Using Magnetic Separation and BEAMing. Analytical Chemistry, 2014, 86, 10940-10947.	6.5	49
48	Photochemically Induced Dynamic Nuclear Polarization in a C450A Mutant of the LOV2 Domain of theAvenasativaBlue-Light Receptor Phototropin. Journal of the American Chemical Society, 2005, 127, 17245-17252.	13.7	48
49	Discovery and Development of the Covalent Hydrates of Trifluoromethylated Pyrazoles as Riboflavin Synthase Inhibitors with Antibiotic Activity Against Mycobacterium tuberculosis. Journal of Organic Chemistry, 2009, 74, 5297-5303.	3.2	48
50	Food authentication: Multi-elemental analysis of white asparagus for provenance discrimination. Food Chemistry, 2019, 286, 475-482.	8.2	47
51	Histidine 179 Mutants of GTP Cyclohydrolase I Catalyze the Formation of 2-Amino-5-formylamino-6-ribofuranosylamino-4(3H)-pyrimidinone Triphosphate. Journal of Biological Chemistry, 1999, 274, 16727-16735.	3.4	46
52	Design, Synthesis, and Evaluation of 6-Carboxyalkyl and 6-Phosphonoxyalkyl Derivatives of 7-Oxo-8-ribitylaminolumazines as Inhibitors of Riboflavin Synthase and Lumazine Synthase. Journal of Organic Chemistry, 2002, 67, 5807-5816.	3.2	46
53	Investigation of the Binding of Fluorolumazines to the 1-MDa Capsid of Lumazine Synthase by 15N{19F} REDOR NMR. Journal of the American Chemical Society, 1999, 121, 7500-7508.	13.7	45
54	Evolution of Vitamin B2 Biosynthesis. Journal of Biological Chemistry, 2004, 279, 36299-36308.	3.4	45

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55	Inhibitors of the Herbicidal Target IspD: Allosteric Site Binding. Angewandte Chemie - International Edition, 2011, 50, 7931-7935.	13.8	45
56	Plant Metabolomics: Maximizing Metabolome Coverage by Optimizing Mobile Phase Additives for Nontargeted Mass Spectrometry in Positive and Negative Electrospray Ionization Mode. Analytical Chemistry, 2017, 89, 10474-10486.	6.5	45
57	Vibrio caribbeanicus sp. nov., isolated from the marine sponge Scleritoderma cyanea. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1736-1743.	1.7	44
58	Multiple Assembly States of Lumazine Synthase: A Model Relating Catalytic Function and Molecular Assembly. Journal of Molecular Biology, 2006, 362, 753-770.	4.2	43
59	¹H NMR Spectroscopy for Determination of the Geographical Origin of Hazelnuts. Journal of Agricultural and Food Chemistry, 2018, 66, 11873-11879.	5.2	43
60	Folate Biosynthesis in Higher Plants. cDNA Cloning, Heterologous Expression, and Characterization of Dihydroneopterin Aldolases. Plant Physiology, 2004, 135, 103-111.	4.8	40
61	Genome sequencing and comparative genomics of enterohemorrhagic Escherichia coli O145:H25 and O145:H28 reveal distinct evolutionary paths and marked variations in traits associated with virulence & colonization. BMC Microbiology, 2017, 17, 183.	3.3	40
62	Enzyme Catalysis via Control of Activation Entropy: Site-directed Mutagenesis of 6,7-Dimethyl-8-ribityllumazine Synthase. Journal of Molecular Biology, 2003, 326, 783-793.	4.2	39
63	Mimicking Tissue Surfaces by Supported Membrane Coupled Ultrathin Layer of Hyaluronic Acidâ€. Langmuir, 2003, 19, 1775-1781.	3.5	39
64	Improved sample preparation for MALDIâ€“MSI of endogenous compounds in skin tissue sections and mapping of exogenous active compounds subsequent to ex-vivo skin penetration. Analytical and Bioanalytical Chemistry, 2012, 402, 1159-1167.	3.7	38
65	Evolution of Vitamin B2 Biosynthesis. A Novel Class of Riboflavin Synthase in Archaea. Journal of Molecular Biology, 2004, 343, 267-278.	4.2	37
66	Frictional Drag and Electrical Manipulation of Recombinant Proteins in Polymer-Supported Membranes. Langmuir, 2007, 23, 5638-5644.	3.5	36
67	Ultrafast Infrared Spectroscopy of an Isotope-Labeled Photoactivatable Flavoprotein. Biochemistry, 2011, 50, 1321-1328.	2.5	36
68	Femtosecond to Millisecond Dynamics of Light Induced Allostery in the Avena sativa LOV Domain. Journal of Physical Chemistry B, 2017, 121, 1010-1019.	2.6	36
69	Use of Polymorphisms in the Î³-Gliadin Gene of Spelt and Wheat as a Tool for Authenticity Control. Journal of Agricultural and Food Chemistry, 2012, 60, 1350-1357.	5.2	35
70	Structural and thermodynamic insights into the binding mode of five novel inhibitors of lumazine synthase from Mycobacterium tuberculosis. FEBS Journal, 2006, 273, 4790-4804.	4.7	34
71	PCR-based method for targeting 16S-23S rRNA intergenic spacer regions among Vibrio species. BMC Microbiology, 2010, 10, 90.	3.3	34
72	Arabidopsis RIBA Proteins: Two out of Three Isoforms Have Lost Their Bifunctional Activity in Riboflavin Biosynthesis. International Journal of Molecular Sciences, 2012, 13, 14086-14105.	4.1	34

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73	IspC as Target for Antiinfective Drug Discovery: Synthesis, Enantiomeric Separation, and Structural Biology of Fosmidomycin Thia Isosters. Journal of Medicinal Chemistry, 2013, 56, 8151-8162.	6.4	34
74	Food Sensing: Aptamer-Based Trapping of Bacillus cereus Spores with Specific Detection via Real Time PCR in Milk. Journal of Agricultural and Food Chemistry, 2015, 63, 8050-8057.	5.2	34
75	Hindered Rotation of a Cofactor Methyl Group as a Probe for Proteinâ^'Cofactor Interaction. Journal of the American Chemical Society, 2010, 132, 8935-8944.	13.7	33
76	DNA-Based Identification of Spices: DNA Isolation, Whole Genome Amplification, and Polymerase Chain Reaction. Journal of Agricultural and Food Chemistry, 2011, 59, 513-520.	5.2	33
77	Loop-Mediated Isothermal Amplification (LAMP): Methods for Plant Species Identification in Food. Journal of Agricultural and Food Chemistry, 2013, 61, 2943-2949.	5.2	33
78	Biosynthesis of riboflavin. FEBS Journal, 2002, 269, 519-526.	0.2	32
79	Potential Anti-infective Targets in Pathogenic Yeasts: Structure and Properties of 3,4-Dihydroxy-2-butanone 4-phosphate Synthase of Candida albicans. Journal of Molecular Biology, 2004, 341, 1085-1096.	4.2	32
80	Design, Synthesis, and Biochemical Evaluation of 1,5,6,7-Tetrahydro-6,7-dioxo-9-d-Ribitylaminolumazines Bearing Alkyl Phosphate Substituents as Inhibitors of Lumazine Synthase and Riboflavin Synthase. Journal of Organic Chemistry, 2005, 70, 8162-8170.	3.2	32
81	Complete Genome Sequences of a Clinical Isolate and an Environmental Isolate of Vibrio parahaemolyticus. Genome Announcements, 2015, 3, .	0.8	32
82	Crystal Structure of an Archaeal Pentameric Riboflavin Synthase in Complex with a Substrate Analog Inhibitor. Journal of Biological Chemistry, 2006, 281, 1224-1232.	3.4	31
83	Î±-Substituted Î²-Oxa Isosteres of Fosmidomycin: Synthesis and Biological Evaluation. Journal of Medicinal Chemistry, 2012, 55, 6566-6575.	6.4	31
84	Plant Metabolomics: Evaluation of Different Extraction Parameters for Nontargeted UPLC-ESI-QTOF-Mass Spectrometry at the Example of White Asparagus officinalis. Journal of Agricultural and Food Chemistry, 2018, 66, 12876-12887.	5.2	31
85	Food Authentication: Small-Molecule Profiling as a Tool for the Geographic Discrimination of German White Asparagus. Journal of Agricultural and Food Chemistry, 2018, 66, 13328-13339.	5.2	31
86	Deorphaning Pyrrolopyrazines as Potent Multiâ€Target Antimalarial Agents. Angewandte Chemie - International Edition, 2014, 53, 7079-7084.	13.8	30
87	Reaction mechanism of GTP cyclohydrolase I: single turnover experiments using a kinetically competent reaction intermediate. Journal of Molecular Biology, 2002, 316, 829-837.	4.2	29
88	MALDI imaging in human skin tissue sections: focus on various matrices and enzymes. Analytical and Bioanalytical Chemistry, 2013, 405, 1159-1170.	3.7	29
89	Biosynthesis of Riboflavin in Archaea Studies on the Mechanism of 3,4-Dihydroxy-2-butanone-4-phosphate Synthase of Methanococcus jannaschii. Journal of Biological Chemistry, 2002, 277, 41410-41416.	3.4	28
90	Structure of 3,4-Dihydroxy-2-butanone 4-Phosphate Synthase from Methanococcus jannaschii in Complex with Divalent Metal Ions and the Substrate Ribulose 5-Phosphate. Journal of Biological Chemistry, 2003, 278, 42256-42265.	3.4	28

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91	Evolution of Vitamin B 2 Biosynthesis: 6,7-Dimethyl-8-Ribityllumazine Synthases of Brucella. Journal of Bacteriology, 2006, 188, 6135-6142.	2.2	28
92	Development of a Sensitive ELISA for the Detection of Casein-Containing Fining Agents in Red and White Wines. Journal of Agricultural and Food Chemistry, 2014, 62, 6803-6812.	5.2	28
93	NMR Analysis of Site-Specific Ligand Binding in Oligomeric Proteins. Dynamic Studies on the Interaction of Riboflavin Synthase with Trifluoromethyl-Substituted Intermediates. Biochemistry, 1996, 35, 9637-9646.	2.5	27
94	A high-throughput screen utilizing the fluorescence of riboflavin for identification of lumazine synthase inhibitors. Analytical Biochemistry, 2005, 338, 124-130.	2.4	27
95	Monomeric red fluorescent protein variants used for imaging studies in different species. European Journal of Cell Biology, 2006, 85, 1119-1129.	3.6	27
96	A high-throughput screening platform for inhibitors of the riboflavin biosynthesis pathway. Analytical Biochemistry, 2007, 365, 52-61.	2.4	27
97	Enzymes from the Haloacid Dehalogenase (HAD) Superfamily Catalyse the Elusive Dephosphorylation Step of Riboflavin Biosynthesis. ChemBioChem, 2013, 14, 2272-2275.	2.6	27
98	Food Targeting: A Real-Time PCR Assay Targeting 16S rDNA for Direct Quantification of Alicyclobacillus spp. Spores after Aptamer-Based Enrichment. Journal of Agricultural and Food Chemistry, 2015, 63, 4291-4296.	5.2	27
99	Highly affine and selective aptamers against cholera toxin as capture elements in magnetic bead-based sandwich ELAA. Journal of Biotechnology, 2018, 269, 35-42.	3.8	27
100	Recent Advances in Riboflavin Biosynthesis. Methods in Molecular Biology, 2014, 1146, 15-40.	0.9	27
101	Evolution of vitamin B2 biosynthesis: riboflavin synthase of Arabidopsis thaliana and its inhibition by riboflavin. Biological Chemistry, 2005, 386, 417-28.	2.5	26
102	Biosynthesis of Riboflavin: Structure and Properties of 2,5-Diamino-6-ribosylamino-4(3H)-pyrimidinone 5â€²-phosphate Reductase of Methanocaldococcus jannaschii. Journal of Molecular Biology, 2006, 359, 1334-1351.	4.2	26
103	Structural and Kinetic Properties of Lumazine Synthase Isoenzymes in the Order Rhizobiales. Journal of Molecular Biology, 2007, 373, 664-680.	4.2	26
104	A New Series of N-[2,4-Dioxo-6-d-ribitylamino-1,2,3,4-tetrahydropyrimidin-5-yl]oxalamic Acid Derivatives as Inhibitors of Lumazine Synthase and Riboflavin Synthase:â€‰ Design, Synthesis, Biochemical Evaluation, Crystallography, and Mechanistic Implications. Journal of Organic Chemistry, 2008, 73, 2715-2724.	3.2	26
105	DNA-Based Differentiation of the Ecuadorian Cocoa Types CCN-51 and Arriba Based on Sequence Differences in the Chloroplast Genome. Journal of Agricultural and Food Chemistry, 2014, 62, 12118-12127.	5.2	26
106	Examination of clinical and environmental Vibrio parahaemolyticus isolates by multi-locus sequence typing (MLST) and multiple-locus variable-number tandem-repeat analysis (MLVA). Frontiers in Microbiology, 2015, 6, 564.	3.5	26
107	Classification of Grain Maize (Zea mays L.) from Different Geographical Origins with FTIR Spectroscopyâ€”a Suitable Analytical Tool for Feed Authentication?. Food Analytical Methods, 2019, 12, 2172-2184.	2.6	26
108	Comparison of different sample preparation techniques for NIR screening and their influence on the geographical origin determination of almonds (Prunus dulcis MILL.). Food Control, 2020, 115, 107302.	5.5	26

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109	Food authentication in real life: How to link nontargeted approaches with routine analytics?. Electrophoresis, 2020, 41, 1665-1679.	2.4	26
110	A New Series of 3-Alkyl Phosphate Derivatives of 4,5,6,7-Tetrahydro-1-<scp>d</scp>-ribityl-1H-pyrazolo[3,4-d]pyrimidinedione as Inhibitors of Lumazine Synthase:â€‰ Design, Synthesis, and Evaluation. Journal of Organic Chemistry, 2007, 72, 7176-7184.	3.2	25
111	Natural Abundance Solution ¹³C NMR Studies of a Phototropin with Photoinduced Polarization. Journal of the American Chemical Society, 2008, 130, 13544-13545.	13.7	25
112	Marzipan: Polymerase Chain Reaction-Driven Methods for Authenticity Control. Journal of Agricultural and Food Chemistry, 2011, 59, 11910-11917.	5.2	25
113	Ultrafast Structural Dynamics of BlsA, a Photoreceptor from the Pathogenic Bacterium Acinetobacter baumannii. Journal of Physical Chemistry Letters, 2014, 5, 220-224.	4.6	25
114	Binding Modes of Reverse Fosmidomycin Analogs toward the Antimalarial Target IspC. Journal of Medicinal Chemistry, 2014, 57, 8827-8838.	6.4	25
115	Localising functionalised gold-nanoparticles in murine spinal cords by X-ray fluorescence imaging and background-reduction through spatial filtering for human-sized objects. Scientific Reports, 2018, 8, 16561.	3.3	25
116	Genomic Profiling: The Strengths and Limitations of Chloroplast Genome-Based Plant Variety Authentication. Journal of Agricultural and Food Chemistry, 2020, 68, 14323-14333.	5.2	25
117	Food Authentication: Species and Origin Determination of Truffles (Tuber spp.) by Inductively Coupled Plasma Mass Spectrometry and Chemometrics. Journal of Agricultural and Food Chemistry, 2020, 68, 14374-14385.	5.2	24
118	Incorporation of an Amide into 5-Phosphonoalkyl-6-d-ribitylaminopyrimidinedione Lumazine Synthase Inhibitors Results in an Unexpected Reversal of Selectivity for Riboflavin Synthase vs Lumazine Synthase. Journal of Organic Chemistry, 2002, 67, 6871-6877.	3.2	23
119	Visualizing cytoskeleton dynamics in mammalian cells using a humanized variant of monomeric red fluorescent protein. FEBS Letters, 2006, 580, 2495-2502.	2.8	23
120	Virtual screening, selection and development of a benzindolone structural scaffold for inhibition of lumazine synthase. Bioorganic and Medicinal Chemistry, 2010, 18, 3518-3534.	3.0	23
121	Food Sensing: Selection and Characterization of DNA Aptamers to Alicyclobacillus Spores for Trapping and Detection from Orange Juice. Journal of Agricultural and Food Chemistry, 2015, 63, 2189-2197.	5.2	23
122	Biosynthesis of riboflavin in Archaea. FEBS Journal, 2003, 270, 1025-1032.	0.2	22
123	Structural basis of charge transfer complex formation by riboflavin bound to 6,7-dimethyl-8-ribityllumazine synthase. FEBS Journal, 2004, 271, 3208-3214.	0.2	22
124	Design, Synthesis, and Evaluation of Acyclic C-Nucleoside and N-Methylated Derivatives of the Ribitylaminopyrimidine Substrate of Lumazine Synthase as Potential Enzyme Inhibitors and Mechanistic Probes. Journal of Organic Chemistry, 2004, 69, 6996-7003.	3.2	22
125	Dense liquid droplets as a step source for the crystallization of lumazine synthase. Journal of Crystal Growth, 2005, 275, e1409-e1416.	1.5	22
126	Discovery and Development of a Small Molecule Library with Lumazine Synthase Inhibitory Activity. Journal of Organic Chemistry, 2009, 74, 5123-5134.	3.2	22

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127	Impact of wine manufacturing practice on the occurrence of fining agents with allergenic potential. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2014, 31, 1805-1817.	2.3	22
128	Prodrugs of Reverse Fosmidomycin Analogues. Journal of Medicinal Chemistry, 2015, 58, 2025-2035.	6.4	22
129	Food Authentication: Truffle (Tuber spp.) Species Differentiation by FT-NIR and Chemometrics. Foods, 2020, 9, 922.	4.3	22
130	Biosynthesis of Riboflavin. Single Turnover Kinetic Analysis of 6,7-Dimethyl-8-ribityllumazine Synthase. Journal of the American Chemical Society, 2003, 125, 4460-4466.	13.7	21
131	Biosynthesis of Vitamin B2. Journal of Biological Chemistry, 2005, 280, 28541-28546.	3.4	21
132	A Novel Lumazine Synthase Inhibitor Derived from Oxidation of 1,3,6,8-Tetrahydroxy-2,7-naphthyridine to a Tetraazaperylenehexaone Derivative. Journal of Organic Chemistry, 2007, 72, 2769-2776.	3.2	21
133	Synthesis and Antiplasmodial Activity of Highly Active Reverse Analogues of the Antimalarial Drug Candidate Fosmidomycin. ChemMedChem, 2010, 5, 1673-1676.	3.2	21
134	Population dynamics of Vibrio spp. associated with marine sponge microcosms. ISME Journal, 2010, 4, 1608-1612.	9.8	21
135	Vibrational Assignment of the Ultrafast Infrared Spectrum of the Photoactivatable Flavoprotein AppA. Journal of Physical Chemistry B, 2012, 116, 10722-10729.	2.6	21
136	Detecting a New Source for Photochemically Induced Dynamic Nuclear Polarization in the LOV2 Domain of Phototropin by Magnetic-Field Dependent ¹³C NMR Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 11622-11632.	2.6	21
137	Food Fingerprinting: Characterization of the Ecuadorean Type CCN-51 of Theobroma cacao L. Using Microsatellite Markers. Journal of Agricultural and Food Chemistry, 2015, 63, 4539-4544.	5.2	21
138	Genetic authentication: Differentiation of fine and bulk cocoa (Theobroma cacao L.) by a new CRISPR/Cas9-based in vitro method. Food Control, 2020, 114, 107219.	5.5	21
139	Food authentication: Determination of the geographical origin of almonds (Prunus dulcis Mill.) via near-infrared spectroscopy. Microchemical Journal, 2021, 160, 105702.	4.5	21
140	Determination of the geographical origin of hazelnuts (Corylus avellana L.) by Near-Infrared spectroscopy (NIR) and a Low-Level Fusion with nuclear magnetic resonance (NMR). Microchemical Journal, 2022, 174, 107066.	4.5	21
141	Presteady State Kinetic Analysis of Riboflavin Synthase. Journal of Biological Chemistry, 2003, 278, 47700-47706.	3.4	20
142	Biosynthesis of Tetrahydrofolate in Plants: Crystal Structure of 7,8-Dihydroneopterin Aldolase from Arabidopsis thaliana Reveals a Novel Adolase Class. Journal of Molecular Biology, 2004, 339, 967-979.	4.2	20
143	Synthesis and Enzyme Inhibitory Activity of the S-Nucleoside Analogue of the Ribitylaminopyrimidine Substrate of Lumazine Synthase and Product of Riboflavin Synthase. Journal of Organic Chemistry, 2007, 72, 7167-7175.	3.2	20
144	Tryptophan 13C nuclear-spin polarization generated by intraprotein electron transfer in a LOV2 domain of the blue-light receptor phototropin. Biochemical Society Transactions, 2009, 37, 382-386.	3.4	20

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145	A novel sampling method for identification of endogenous skin surface compounds by use of DART-MS and MALDI-MS. Talanta, 2013, 103, 398-402.	5.5	20
146	Variation in LOV Photoreceptor Activation Dynamics Probed by Time-Resolved Infrared Spectroscopy. Biochemistry, 2018, 57, 620-630.	2.5	20
147	Determination of the Geographical Origin of Walnuts (Juglans regia L.) Using Near-Infrared Spectroscopy and Chemometrics. Foods, 2020, 9, 1860.	4.3	20
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