Robert Flick

List of Publications by Year
in descending order

33 papers	1,251 citations	471509 17 h-index	414414 32 g-index
33 all docs	33 docs citations	33 times ranked	2060 citing authors

#	Article	IF	Citations
1	Nuclease Activity of the Human SAMHD1 Protein Implicated in the Aicardi-GoutiÃ¨res Syndrome and HIV-1 Restriction. Journal of Biological Chemistry, 2013, 288, 8101-8110.	3.4	194
2	SAMHD1 is a biomarker for cytarabine response and a therapeutic target in acute myeloid leukemia. Nature Medicine, 2017, 23, 250-255.	30.7	121
3	Biochemical and Structural Insights into Enzymatic Depolymerization of Polylactic Acid and Other Polyesters by Microbial Carboxylesterases. Biomacromolecules, 2016, 17, 2027-2039.	5.4	114
4	Alkene hydrogenation activity of enoate reductases for an environmentally benign biosynthesis of adipic acid. Chemical Science, 2017, 8, 1406-1413.	7.4	77
5	Exploring Bacterial Carboxylate Reductases for the Reduction of Bifunctional Carboxylic Acids. Biotechnology Journal, 2017, 12, 1600751.	3.5	74
6	Functional Diversity of Haloacid Dehalogenase Superfamily Phosphatases from Saccharomyces cerevisiae. Journal of Biological Chemistry, 2015, 290, 18678-18698.	3.4	70
7	Activity screening of environmental metagenomic libraries reveals novel carboxylesterase families. Scientific Reports, 2017, 7, 44103.	3.3	67
8	One-Pot Biocatalytic Transformation of Adipic Acid to 6-Aminocaproic Acid and 1,6-Hexamethylenediamine Using Carboxylic Acid Reductases and Transaminases. Journal of the American Chemical Society, 2020, 142, 1038-1048.	13.7	66
9	Screening and Characterization of Novel Polyesterases from Environmental Metagenomes with High Hydrolytic Activity against Synthetic Polyesters. Environmental Science & Technology, 2018, 52, 12388-12401.	10.0	56
10	A family of metal-dependent phosphatases implicated in metabolite damage-control. Nature Chemical Biology, 2016, 12, 621-627.	8.0	48
11	Structural Insights into Substrate Selectivity and Activity of Bacterial Polyphosphate Kinases. ACS Catalysis, 2018, 8, 10746-10760.	11.2	48
12	Biosynthesis and Activity of Prenylated FMN Cofactors. Cell Chemical Biology, 2018, 25, 560-570.e6.	5.2	45
13	The CRISPR-associated Cas4 protein Pcal_0546 from Pyrobaculum calidifontis contains a [2Fe-2S] cluster: crystal structure and nuclease activity. Nucleic Acids Research, 2014, 42, 11144-11155.	14.5	29
14	Novel Aldo-Keto Reductases for the Biocatalytic Conversion of 3-Hydroxybutanal to 1,3-Butanediol: Structural and Biochemical Studies. Applied and Environmental Microbiology, 2017, 83, .	3.1	24
15	CRISPR RNA binding and DNA target recognition by purified Cascade complexes from Escherichia coli. Nucleic Acids Research, 2015, 43, 530-543.	14.5	22
16	Refined experimental annotation reveals conserved corrinoid autotrophy in chloroform-respiring Dehalobacter isolates. ISME Journal, 2017, 11, 626-640.	9.8	21
17	Lignin-oxidizing activity of bacterial laccases characterized using soluble substrates and polymeric lignin. Journal of Biotechnology, 2021, 325, 128-137.	3.8	21
18	Rational engineering of 2-deoxyribose-5-phosphate aldolases for the biosynthesis of (R)-1,3-butanediol. Journal of Biological Chemistry, 2020, 295, 597-609.	3.4	16

#	Article	IF	Citations
19	Site-directed mutagenesis and stability of the carboxylic acid reductase MAB4714 from Mycobacterium abscessus. Journal of Biotechnology, 2019, 303, 72-79.	3.8	15
20	An interspecies malateâ€“pyruvate shuttle reconciles redox imbalance in an anaerobic microbial community. ISME Journal, 2019, 13, 1042-1055.	9.8	15
21	Potential Probiotic Bacillus subtilis Isolated from a Novel Niche Exhibits Broad Range Antibacterial Activity and Causes Virulence and Metabolic Dysregulation in Enterotoxic E. coli. Microorganisms, 2021, 9, 1483.	3.6	15
22	Biocatalytic in Vitro and in Vivo FMN Prenylation and (De)carboxylase Activation. ACS Chemical Biology, 2020, 15, 1874-1882.	3.4	13
23	Evidence for extensive anaerobic dechlorination and transformation of the pesticide chlordecone (C10Cl10O) by indigenous microbes in microcosms from Guadeloupe soil. PLoS ONE, 2020, 15, e0231219.	2.5	12
24	Trace Organic Contaminant Transfer and Transformation in Bioretention Cells: A Field Tracer Test with Benzotriazole. Environmental Science & Technology, 2021, 55, 12281-12290.	10.0	11
25	Carbon, hydrogen and nitrogen stable isotope fractionation allow characterizing the reaction mechanisms of 1H-benzotriazole aqueous phototransformation. Water Research, 2021, 203, 117519.	11.3	11
26	Evaluating the relative adsorption and biodegradation of 2-methylisoborneol and geosmin across granular activated carbon filter-adsorbers. Water Research, 2022, 215, 118239.	11.3	10
27	Bisphosphonic acids and related compounds as inhibitors of nucleotideâ€•and polyphosphateâ€processing enzymes: A PPK1 and PPK2 case study. Chemical Biology and Drug Design, 2019, 93, 1197-1206.	3.2	8
28	A novel C-terminal degron identified in bacterial aldehyde decarbonylases using directed evolution. Biotechnology for Biofuels, 2020, 13, 114.	6.2	8
29	Accumulation of soluble menaquinones MK-7 in honey coincides with death of Bacillus spp. present in honey. Food Chemistry: X, 2019, 1, 100008.	4.3	7
30	Prenylated FMN: Biosynthesis, purification, and Fdc1 activation. Methods in Enzymology, 2019, 620, 469-488.	1.0	5
31	Identification of a Fully Dechlorinated Product of Chlordecone in Soil Microcosms and Enrichment Cultures. Environmental Science and Technology Letters, 2021, 8, 662-667.	8.7	4
32	Triclosan uptake and transformation by the green algae Euglena gracilis strain Z. Science of the Total Environment, 2022, 833, 155232.	8.0	4
33	FSMP-01. ID1 MEDIATES ONE-CARBON MEDIATED PURINE SYNTHESIS IN GLIOBLASTOMA. Neuro-Oncology Advances, 2021, 3, i16-i16.	0.7	0