Florian Hollfelder

List of Publications by Year in descending order

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151 papers

9,503 citations

50 h-index 91 g-index

176 all docs

176 docs citations

176 times ranked

8857 citing authors

#	Article	IF	CITATIONS
1	Microdroplets in Microfluidics: An Evolving Platform for Discoveries in Chemistry and Biology. Angewandte Chemie - International Edition, 2010, 49, 5846-5868.	7.2	903
2	Microdroplets: A sea of applications?. Lab on A Chip, 2008, 8, 1244.	3.1	579
3	Static microdroplet arrays: a microfluidic device for droplet trapping, incubation and release for enzymatic and cell-based assays. Lab on A Chip, 2009, 9, 692-698.	3.1	303
4	The role of protein dynamics in the evolution of new enzyme function. Nature Chemical Biology, 2016, 12, 944-950.	3.9	252
5	Continuous-Flow Polymerase Chain Reaction of Single-Copy DNA in Microfluidic Microdroplets. Analytical Chemistry, 2009, 81, 302-306.	3.2	240
6	Ultrahigh-throughput discovery of promiscuous enzymes by picodroplet functional metagenomics. Nature Communications, 2015, 6, 10008.	5.8	225
7	Ultrahigh-throughput–directed enzyme evolution by absorbance-activated droplet sorting (AADS). Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7383-E7389.	3.3	210
8	Picoliter Cell Lysate Assays in Microfluidic Droplet Compartments for Directed Enzyme Evolution. Chemistry and Biology, 2012, 19, 1001-1009.	6.2	195
9	Development of Quantitative Cell-Based Enzyme Assays in Microdroplets. Analytical Chemistry, 2008, 80, 3890-3896.	3.2	191
10	Ultrarapid Generation of Femtoliter Microfluidic Droplets for Single-Molecule-Counting Immunoassays. ACS Nano, 2013, 7, 5955-5964.	7.3	188
11	Controlling the Retention of Small Molecules in Emulsion Microdroplets for Use in Cell-Based Assays. Analytical Chemistry, 2009, 81, 3008-3016.	3.2	182
12	Off-the-shelf proteins that rival tailor-made antibodies as catalysts. Nature, 1996, 383, 60-63.	13.7	177
13	Cross-talk between Histone Modifications in Response to Histone Deacetylase Inhibitors. Journal of Biological Chemistry, 2007, 282, 4408-4416.	1.6	177
14	What makes an enzyme promiscuous?. Current Opinion in Chemical Biology, 2010, 14, 200-207.	2.8	176
15	An Integrated Device for Monitoring Timeâ€Dependent in vitro Expression From Single Genes in Picolitre Droplets. ChemBioChem, 2008, 9, 439-446.	1.3	172
16	One in a Million: Flow Cytometric Sorting of Single Cell-Lysate Assays in Monodisperse Picolitre Double Emulsion Droplets for Directed Evolution. Analytical Chemistry, 2014, 86, 2526-2533.	3.2	170
17	Self-Organization of Mouse Stem Cells into an Extended Potential Blastoid. Developmental Cell, 2019, 51, 698-712.e8.	3.1	157
18	Microfluidic droplets: new integrated workflows for biological experiments. Current Opinion in Chemical Biology, 2010, 14, 548-555.	2.8	155

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19	The nature of the transition state for enzyme-catalyzed phosphoryl transfer. Hydrolysis of O-aryl phosphorothioates by alkaline phosphatase. Biochemistry, 1995, 34, 12255-12264.	1.2	151
20	Simultaneous Determination of Gene Expression and Enzymatic Activity in Individual Bacterial Cells in Microdroplet Compartments. Journal of the American Chemical Society, 2009, 131, 15251-15256.	6.6	151
21	Evolution of enzyme catalysts caged in biomimetic gel-shell beads. Nature Chemistry, 2014, 6, 791-796.	6.6	140
22	A double droplet trap system for studying mass transport across a droplet-droplet interface. Lab on A Chip, 2010, 10, 1281.	3.1	138
23	The antibiotic microcin B17 is a DNA gyrase poison: characterisation of the mode of inhibition11Edited by J. Karn. Journal of Molecular Biology, 2001, 307, 1223-1234.	2.0	135
24	The potential of microfluidic water-in-oil droplets in experimental biology. Molecular BioSystems, 2009, 5, 1392.	2.9	131
25	New genotype–phenotype linkages for directed evolution of functional proteins. Current Opinion in Structural Biology, 2005, 15, 472-478.	2.6	125
26	Exploring sequence space in search of functional enzymes using microfluidic droplets. Current Opinion in Chemical Biology, 2017, 37, 137-144.	2.8	88
27	An efficient, multiply promiscuous hydrolase in the alkaline phosphatase superfamily. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2740-2745.	3.3	87
28	A Fully Unsupervised Compartment-on-Demand Platform for Precise Nanoliter Assays of Time-Dependent Steady-State Enzyme Kinetics and Inhibition. Analytical Chemistry, 2013, 85, 4761-4769.	3.2	85
29	Efficient Catalytic Promiscuity in an Enzyme Superfamily: An Arylsulfatase Shows a Rate Acceleration of 1013 for Phosphate Monoester Hydrolysis. Journal of the American Chemical Society, 2008, 130, 16547-16555.	6.6	84
30	Characterization of Proton-Transfer Catalysis by Serum Albumins. Journal of the American Chemical Society, 2000, 122, 1022-1029.	6.6	79
31	Peptide Dendrimer/Lipid Hybrid Systems Are Efficient DNA Transfection Reagents: Structure–Activity Relationships Highlight the Role of Charge Distribution Across Dendrimer Generations. ACS Nano, 2013, 7, 4668-4682.	7.3	78
32	Anionic Charge Is Prioritized over Geometry in Aluminum and Magnesium Fluoride Transition State Analogs of Phosphoryl Transfer Enzymes. Journal of the American Chemical Society, 2008, 130, 3952-3958.	6.6	77
33	Inducible Stem-Cell-Derived Embryos Capture Mouse Morphogenetic Events InÂVitro. Developmental Cell, 2021, 56, 366-382.e9.	3.1	77
34	An integrated cell culture lab on a chip: modular microdevices for cultivation of mammalian cells and delivery into microfluidic microdroplets. Lab on A Chip, 2009, 9, 1576.	3.1	76
35	Efficient Catalysis of Proton Transfer by Synzymes. Journal of the American Chemical Society, 1997, 119, 9578-9579.	6.6	75
36	Fluid Phase Endocytosis Contributes to Transfection of DNA by PEI-25. Molecular Therapy, 2009, 17, 1411-1417.	3.7	74

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37	Directed Evolution of a Gatekeeper Domain in Nonribosomal Peptide Synthesis. Chemistry and Biology, 2011, 18, 1290-1299.	6.2	74
38	On the Magnitude and Specificity of Medium Effects in Enzyme-like Catalysts for Proton Transfer. Journal of Organic Chemistry, 2001, 66, 5866-5874.	1.7	72
39	High-throughput total RNA sequencing in single cells using VASA-seq. Nature Biotechnology, 2022, 40, 1780-1793.	9.4	70
40	A Trojan horse transition state analogue generated by MgF3- formation in an enzyme active site. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14732-14737.	3.3	69
41	Deep learning guided image-based droplet sorting for on-demand selection and analysis of single cells and 3D cell cultures. Lab on A Chip, 2020, 20, 889-900.	3.1	68
42	A New Member of the Alkaline Phosphatase Superfamily with a Formylglycine Nucleophile: Structural and Kinetic Characterisation of a Phosphonate Monoester Hydrolase/Phosphodiesterase from Rhizobium leguminosarum. Journal of Molecular Biology, 2008, 384, 120-136.	2.0	65
43	Simultaneous measurement of reactions in microdroplets filled by concentration gradients. Lab on A Chip, 2009, 9, 1707.	3.1	65
44	Reverse evolution leads to genotypic incompatibility despite functional and active site convergence. ELife, 2015, 4, .	2.8	65
45	Impaired Transition State Complementarity in the Hydrolysis of O-Arylphosphorothioates by Protein-Tyrosine Phosphatasesâ€. Biochemistry, 1999, 38, 12111-12123.	1.2	63
46	The Human Histone Acetyltransferase P/CAF is a Promiscuous Histone Propionyltransferase. ChemBioChem, 2008, 9, 499-503.	1.3	60
47	Mapping catalytic promiscuity in the alkaline phosphatase superfamily. Pure and Applied Chemistry, 2009, 81, 731-742.	0.9	57
48	Efficient Catalytic Promiscuity for Chemically Distinct Reactions. Angewandte Chemie - International Edition, 2009, 48, 3692-3694.	7.2	56
49	Enzyme engineering in biomimetic compartments. Current Opinion in Structural Biology, 2015, 33, 42-51.	2.6	56
50	Spatial profiling of early primate gastrulation in utero. Nature, 2022, 609, 136-143.	13.7	56
51	Engineering theÂprotein dynamics of anÂancestral luciferase. Nature Communications, 2021, 12, 3616.	5.8	54
52	Monitoring a Reaction at Submillisecond Resolution in Picoliter Volumes. Analytical Chemistry, 2011, 83, 1462-1468.	3.2	53
53	Cell-free Directed Evolution of a Protease in Microdroplets at Ultrahigh Throughput. ACS Synthetic Biology, 2021, 10, 252-257.	1.9	53
54	Mapping the Limits of Substrate Specificity of the Adenylation Domain of TycA. ChemBioChem, 2009, 10, 671-682.	1,3	51

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55	Vesicles Accelerate Proton Transfer from Carbon up to 850-fold. Organic Letters, 2000, 2, 127-130.	2.4	48
56	Efficient, crosswise catalytic promiscuity among enzymes that catalyze phosphoryl transfer. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 417-424.	1.1	47
57	Molecular Recognition of DNA by Rigid [n]-Polynorbornane-Derived Bifunctional Intercalators:Â Synthesis and Evaluation of Their Binding Properties. Journal of Medicinal Chemistry, 2007, 50, 2326-2340.	2.9	45
58	In vitro characterization of DNA gyrase inhibition by microcin B17 analogs with altered bisheterocyclic sites. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7712-7717.	3.3	43
59	Polyethylene Imine Derivatives (â€~Synzymes') Accelerate Phosphate Transfer in the Absence of Metal. Journal of the American Chemical Society, 2007, 129, 7611-7619.	6.6	43
60	Monodisperse Water-in-Oil-in-Water ($W/O/W$) Double Emulsion Droplets as Uniform Compartments for High-Throughput Analysis via Flow Cytometry. Micromachines, 2013, 4, 402-413.	1.4	43
61	Accessing unexplored regions of sequence space in directed enzyme evolution via insertion/deletion mutagenesis. Nature Communications, 2020, 11, 3469.	5.8	42
62	Flexibility and Reactivity in Promiscuous Enzymes. ChemBioChem, 2013, 14, 285-292.	1.3	40
63	Interfacing Microwells with Nanoliter Compartments: A Sampler Generating High-Resolution Concentration Gradients for Quantitative Biochemical Analyses in Droplets. Analytical Chemistry, 2015, 87, 624-632.	3.2	39
64	In vitro affinity screening of protein and peptide binders by megavalent bead surface display. Protein Engineering, Design and Selection, 2013, 26, 713-724.	1.0	38
65	Catalysis of the Kemp elimination by antibodies elicited against a cationic hapten. Bioorganic and Medicinal Chemistry Letters, 1997, 7, 2497-2502.	1.0	37
66	An optimized ATP/PPi-exchange assay in 96-well format for screening of adenylation domains for applications in combinatorial biosynthesis. Biotechnology Journal, 2007, 2, 232-240.	1.8	37
67	Controlling the contents of microdroplets by exploiting the permeability of PDMS. Lab on A Chip, 2011, 11, 1132.	3.1	35
68	Longâ€Term Perfusion Culture of Monoclonal Embryonic Stem Cells in 3D Hydrogel Beads for Continuous Optical Analysis of Differentiation. Small, 2019, 15, e1804576.	5.2	35
69	Balancing Specificity and Promiscuity in Enzyme Evolution: Multidimensional Activity Transitions in the Alkaline Phosphatase Superfamily. Journal of the American Chemical Society, 2019, 141, 370-387.	6.6	35
70	Mutations in Mll2, an H3K4 Methyltransferase, Result in Insulin Resistance and Impaired Glucose Tolerance in Mice. PLoS ONE, 2013, 8, e61870.	1,1	35
71	Evolutionary repurposing of a sulfatase: A new Michaelis complex leads to efficient transition state charge offset. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7293-E7302.	3.3	34
72	A Covalent Chemical Genotype–Phenotype Linkage for in vitro Protein Evolution. ChemBioChem, 2007, 8, 2191-2194.	1.3	33

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73	Kinetic Analysis of \hat{I}^2 -Phosphoglucomutase and Its Inhibition by Magnesium Fluoride. Journal of the American Chemical Society, 2009, 131, 1575-1588.	6.6	33
74	Investigating host-microbiome interactions by droplet based microfluidics. Microbiome, 2020, 8, 141.	4.9	33
75	Ultrahigh throughput screening for enzyme function in droplets. Methods in Enzymology, 2020, 643, 317-343.	0.4	32
76	A single mutation in the core domain of the lac repressor reduces leakiness. Microbial Cell Factories, 2013, 12, 67.	1.9	31
77	Plasmodium dihydrofolate reductase is a second enzyme target for the antimalarial action of triclosan. Scientific Reports, 2018, 8, 1038.	1.6	31
78	Dynamic cell contacts between periportal mesenchyme and ductal epithelium act as a rheostat for liver cell proliferation. Cell Stem Cell, 2021, 28, 1907-1921.e8.	5.2	30
79	Removal of background signals from fluorescence thermometry measurements in PDMS microchannels using fluorescence lifetime imaging. Lab on A Chip, 2009, 9, 3437.	3.1	28
80	Functional Trade-Offs in Promiscuous Enzymes Cannot Be Explained by Intrinsic Mutational Robustness of the Native Activity. PLoS Genetics, 2016, 12, e1006305.	1.5	28
81	A simple method to evaluate the biochemical compatibility of oil/surfactant mixtures for experiments in microdroplets. Lab on A Chip, 2012, 12, 4185.	3.1	27
82	Oneâ€Pot Deracemization of <i>sec</i> â€Alcohols: Enantioconvergent Enzymatic Hydrolysis of Alkyl Sulfates Using Stereocomplementary Sulfatases. Angewandte Chemie - International Edition, 2013, 52, 3277-3279.	7.2	27
83	Quantitative Affinity Determination by Fluorescence Anisotropy Measurements of Individual Nanoliter Droplets. Analytical Chemistry, 2017, 89, 1092-1101.	3.2	27
84	Isothermal DNA amplification using the T4 replisome: circular nicking endonuclease-dependent amplification and primase-based whole-genome amplification. Nucleic Acids Research, 2010, 38, e201-e201.	6.5	26
85	Directed evolution of anti-HER2 DARPins by SNAP display reveals stability/function trade-offs in the selection process. Protein Engineering, Design and Selection, 2015, 28, 269-279.	1.0	26
86	Enzymes under the nanoscope. Nature, 2008, 456, 45-47.	13.7	25
87	High-Throughput, Lysis-Free Screening for Sulfatase Activity Using <i>Escherichia coli</i> Autodisplay in Microdroplets. ACS Synthetic Biology, 2019, 8, 2690-2700.	1.9	25
88	UMI-linked consensus sequencing enables phylogenetic analysis of directed evolution. Nature Communications, 2020, 11, 6023.	5.8	25
89	SNAP Dendrimers: Multivalent Protein Display on Dendrimerâ€Like DNA for Directed Evolution. ChemBioChem, 2011, 12, 2208-2216.	1.3	24
90	An experimental framework for improved selection of binding proteins using SNAP display. Journal of Immunological Methods, 2014, 405, 47-56.	0.6	24

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91	An efficient method to assemble linear DNA templates for in vitro screening and selection systems. Nucleic Acids Research, 2009, 37, e122-e122.	6.5	22
92	Combining Medium Effects and Cofactor Catalysis: Metalâ€Coordinated Synzymes Accelerate Phosphate Transfer by 10 ⁸ . Chemistry - A European Journal, 2009, 15, 12371-12380.	1.7	22
93	Efficient Transfection of siRNA by Peptide Dendrimer–Lipid Conjugates. ChemBioChem, 2016, 17, 2223-2229.	1.3	22
94	A Method to Quantify FRET Stoichiometry with Phasor Plot Analysis and Acceptor Lifetime Ingrowth. Biophysical Journal, 2015, 108, 999-1002.	0.2	21
95	Controlled Oil/Water Partitioning of Hydrophobic Substrates Extending the Bioanalytical Applications of Droplet-Based Microfluidics. Analytical Chemistry, 2019, 91, 10008-10015.	3.2	20
96	Global fitness landscapes of the Shine-Dalgarno sequence. Genome Research, 2020, 30, 711-723.	2.4	19
97	Kinetic and computational evidence for an intermediate in the hydrolysis of sulfonate esters. Organic and Biomolecular Chemistry, 2012, 10, 8095.	1.5	18
98	Structural and Mechanistic Analysis of the Choline Sulfatase from Sinorhizobium melliloti: A Class I Sulfatase Specific for an Alkyl Sulfate Ester. Journal of Molecular Biology, 2018, 430, 1004-1023.	2.0	18
99	Specificity Effects of Amino Acid Substitutions in Promiscuous Hydrolases: Contextâ€Dependence of Catalytic Residue Contributions to Local Fitness Landscapes in Nearby Sequence Space. ChemBioChem, 2017, 18, 1001-1015.	1.3	17
100	Novel peptide-dendrimer/lipid/oligonucleotide ternary complexes for efficient cellular uptake and improved splice-switching activity. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 132, 29-40.	2.0	17
101	Microfluidic platform for 3D cell culture with live imaging and clone retrieval. Lab on A Chip, 2020, 20, 2580-2591.	3.1	17
102	Combinatorial Synthesis of Structurally Diverse Triazole-Bridged Flavonoid Dimers and Trimers. Molecules, 2016, 21, 1230.	1.7	16
103	Ultrahigh-Throughput Screening of Single-Cell Lysates for Directed Evolution and Functional Metagenomics. Methods in Molecular Biology, 2018, 1685, 297-309.	0.4	16
104	Agarose microgel culture delineates lumenogenesis in naive and primed human pluripotent stem cells. Stem Cell Reports, 2021, 16, 1347-1362.	2.3	16
105	Exploiting protease activation for therapy. Drug Discovery Today, 2022, 27, 1743-1754.	3.2	16
106	Functional metagenomic screening identifies an unexpected \hat{l}^2 -glucuronidase. Nature Chemical Biology, 2022, 18, 1096-1103.	3.9	16
107	Nonspecific Catalysis By Protein Surfaces. Applied Biochemistry and Biotechnology, 2000, 83, 173-182.	1.4	15
108	SNAP Display: In Vitro Protein Evolution in Microdroplets. Methods in Molecular Biology, 2012, 805, 101-111.	0.4	15

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109	Single-cell activity screening in microfluidic droplets. Methods in Enzymology, 2019, 628, 95-112.	0.4	15
110	Growth amplification in ultrahigh-throughput microdroplet screening increases sensitivity of clonal enzyme assays and minimizes phenotypic variation. Lab on A Chip, 2021, 21, 163-173.	3.1	15
111	A Shorter Route to Antibody Binders via Quantitative in vitro Bead-Display Screening and Consensus Analysis. Scientific Reports, 2016, 6, 36391.	1.6	14
112	Droplets as Reaction Compartments for Protein Nanotechnology. Methods in Molecular Biology, 2013, 996, 269-286.	0.4	13
113	Bioinspired genotype–phenotype linkages: mimicking cellular compartmentalization for the engineering of functional proteins. Interface Focus, 2015, 5, 20150035.	1.5	12
114	Split & DNA libraries for ultrahigh throughput on-bead screening of functional proteins. Nucleic Acids Research, 2020, 48, e63-e63.	6.5	12
115	SNAP Display - an In Vitro Method for the Selection of Protein Binders. Current Pharmaceutical Design, 2013, 19, 5421-5428.	0.9	12
116	Improved RAD51 binders through motif shuffling based on the modularity of BRC repeats. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
117	Simple but efficient models for nuclease catalysis. Pure and Applied Chemistry, 1994, 66, 687-694.	0.9	11
118	Relating Chemical and Biological Diversity Space: A Tunable System for Efficient Gene Transfection. ChemBioChem, 2008, 9, 1960-1967.	1.3	11
119	Directed evolution of a histone acetyltransferase – enhancing thermostability, whilst maintaining catalytic activity and substrate specificity. FEBS Journal, 2008, 275, 5635-5647.	2.2	11
120	Measuring Fast and Slow Enzyme Kinetics in Stationary Droplets. Analytical Chemistry, 2015, 87, 11915-11922.	3.2	11
121	Divergent synthesis of biflavonoids yields novel inhibitors of the aggregation of amyloid β (1–42). Organic and Biomolecular Chemistry, 2017, 15, 4554-4570.	1.5	11
122	In vitro evolution of antibody affinity via insertional scanning mutagenesis of an entire antibody variable region. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27307-27318.	3.3	11
123	Combinatorial Screening Identifies Novel Promiscuous Matrix Metalloproteinase Activities that Lead to Inhibition of the Therapeutic Target IL-13. Chemistry and Biology, 2015, 22, 1442-1452.	6.2	10
124	Transition-State Interactions in a Promiscuous Enzyme: Sulfate and Phosphate Monoester Hydrolysis by <i>Pseudomonas aeruginosa</i> Arylsulfatase. Biochemistry, 2019, 58, 1363-1378.	1.2	10
125	Droplet-based screening of phosphate transfer catalysis reveals how epistasis shapes MAP kinase interactions with substrates. Nature Communications, 2022, 13, 844.	5.8	10
126	Handicapâ€Recover Evolution Leads to a Chemically Versatile, Nucleophileâ€Permissive Protease. ChemBioChem, 2015, 16, 1866-1869.	1.3	9

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127	Ultrahighâ€Throughput Detection of Enzymatic Alcohol Dehydrogenase Activity in Microfluidic Droplets with a Direct Fluorogenic Assay. ChemBioChem, 2021, 22, 3292-3299.	1.3	9
128	Enzymatic <i>N</i> -Allylation of Primary and Secondary Amines Using Renewable Cinnamic Acids Enabled by Bacterial Reductive Aminases. ACS Sustainable Chemistry and Engineering, 2022, 10, 6794-6806.	3.2	9
129	"NADâ€displayâ€. Ultrahighâ€Throughput in Vitro Screening of NAD(H) Dehydrogenases Using Bead Display and Flow Cytometry. Angewandte Chemie - International Edition, 2021, 60, 9015-9021.	7.2	8
130	Oneâ€Pot Deracemization of <i>sec</i> â€Alcohols: Enantioconvergent Enzymatic Hydrolysis of Alkyl Sulfates Using Stereocomplementary Sulfatases. Angewandte Chemie, 2013, 125, 3359-3361.	1.6	6
131	Multiplexed Affinity Characterization of Protein Binders Directly from a Crude Cell Lysate by Covalent Capture on Suspension Bead Arrays. Analytical Chemistry, 2021, 93, 2166-2173.	3.2	6
132	Ultrahigh-throughput screening in microfluidic droplets: a faster route to new enzymes. Trends in Biochemical Sciences, 2021, , .	3.7	6
133	Adventures on the Routes of Protein Evolution—In Memoriam Dan Salah Tawfik (1955–2021). Journal of Molecular Biology, 2022, 434, 167462.	2.0	6
134	Electrostatic catalysis of the hydrolysis of a phosphate diester in water. Journal of the Chemical Society Chemical Communications, 1992, , 1770.	2.0	5
135	Intramolecular general acid catalysis of sulfate transfer \hat{A} — Nucleophilic attack by oxyanions on the SO3 \hat{A} — group. Canadian Journal of Chemistry, 2005, 83, 1629-1636.	0.6	4
136	A Titratable Cell Lysis-on-Demand System for Droplet-Compartmentalized Ultrahigh-Throughput Screening in Functional Metagenomics and Directed Evolution. ACS Synthetic Biology, 2021, 10, 1882-1894.	1.9	4
137	Controlled Ligand Exchange Between Ruthenium Organometallic Cofactor Precursors and a Na $ ilde{A}^{-}$ ve Protein Scaffold Generates Artificial Metalloenzymes Catalysing Transfer Hydrogenation. Angewandte Chemie - International Edition, 2021, 60, 10919-10927.	7.2	3
138	Hitting a moving target?—Understanding how conformational diversity impacts enzymatic catalysis. Current Opinion in Chemical Biology, 2010, 14, 634-635.	2.8	2
139	peri-Dimethylamino substituent effects on proton transfer at carbon in α-naphthylacetateesters: a model for mandelate racemase. Organic and Biomolecular Chemistry, 2012, 10, 590-596.	1.5	2
140	Just (protein) engineering?. Current Opinion in Structural Biology, 2013, 23, 569-570.	2.6	2
141	Error-Free Synthetic DNA by Molecular Dictation. Trends in Biotechnology, 2021, 39, 861-865.	4.9	2
142	USER Friendly DNA Recombination (USERec): Gene Library Construction Requiring Minimal Sequence Homology. Methods in Molecular Biology, 2014, 1179, 213-224.	0.4	2
143	"NADâ€display― Ultrahighâ€Throughput in Vitro Screening of NAD(H) Dehydrogenases Using Bead Display and Flow Cytometry. Angewandte Chemie, 2021, 133, 9097-9103.	1.6	1
144	Conference: Highlights from the 37th ESF/EUCHEM Conference on Stereochemistry, Býrgenstock, Switzerland, April 2002. Chemical Communications, 2002, , xviii-xix.	2.2	0

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145	From fascination to function. Current Opinion in Biotechnology, 2011, 22, 473-474.	3.3	0
146	Assembling Linear DNA Templates for In Vitro Transcription and Translation. Methods in Molecular Biology, 2012, 815, 67-78.	0.4	0
147	Enzyme Promiscuity and Evolution of New Protein Functions. , 2014, , 524-538.		0
148	A Short Practical Guide to the Quantitative Analysis of Engineered Enzymes., 2016,, 3-20.		0
149	Microfluidic Droplets and Their Applications: Diagnosis, Drug Screening and the Discovery of Therapeutic Enzymes. IFMBE Proceedings, 2020, , 361-368.	0.2	0
150	Controlled Ligand Exchange Between Ruthenium Organometallic Cofactor Precursors and a Na \tilde{A}^{-} ve Protein Scaffold Generates Artificial Metalloenzymes Catalysing Transfer Hydrogenation. Angewandte Chemie, 2021, 133, 11014-11022.	1.6	0
151	Towards biological experimentation in microfludic microdroplets. Houille Blanche, 2009, 95, 127-133.	0.3	0