

# Yoshihito Watanabe

## List of Publications by Year in descending order

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69  
papers

2,442  
citations

218677

26  
h-index

206112

48  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1646  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring hitherto uninvestigated reactions of the fatty acid peroxygenase CYP152A1: catalase reaction and Compound I formation. <i>Faraday Discussions</i> , 2022, 234, 304-314.	3.2	4
2	Systematic Evolution of Decoy Molecules for the Highly Efficient Hydroxylation of Benzene and Small Alkanes Catalyzed by Wild-Type Cytochrome P450BM3. <i>ACS Catalysis</i> , 2020, 10, 9136-9144.	11.2	22
3	Enhanced <i>cis</i> - and enantioselective cyclopropanation of styrene catalysed by cytochrome P450BM3 using decoy molecules. <i>Chemical Communications</i> , 2020, 56, 11026-11029.	4.1	11
4	Crystals in Minutes: Instant On-Site Microcrystallisation of Various Flavours of the CYP102A1 (P450BM3) Haem Domain. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7611-7618.	13.8	13
5	Molecular Design and Regulation of Metalloenzyme Activities through Two Novel Approaches: Ferritin and P450s. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 379-392.	3.2	16
6	Kristalle in Minutenschnelle: Sofortige Mikrokristallisation verschiedenster Varianten der CYP102A1-(P450BM3)-Häm-Domäne. <i>Angewandte Chemie</i> , 2020, 132, 7681-7689.	2.0	6
7	Hijacking the Heme Acquisition System of <i>Pseudomonas aeruginosa</i> for the Delivery of Phthalocyanine as an Antimicrobial. <i>ACS Chemical Biology</i> , 2019, 14, 1637-1642.	3.4	27
8	Development of a High-Pressure Reactor Based on Liquid-Flow Pressurisation to Facilitate Enzymatic Hydroxylation of Gaseous Alkanes. <i>ChemCatChem</i> , 2019, 11, 4661-4661.	3.7	1
9	Development of a High-Pressure Reactor Based on Liquid-Flow Pressurisation to Facilitate Enzymatic Hydroxylation of Gaseous Alkanes. <i>ChemCatChem</i> , 2019, 11, 4709-4714.	3.7	18
10	Highly malleable haem-binding site of the haemoprotein HasA permits stable accommodation of bulky tetraphenylporphycenes. <i>RSC Advances</i> , 2019, 9, 18697-18702.	3.6	13
11	Hoodwinking Cytochrome P450BM3 into Hydroxylating Non-Native Substrates by Exploiting Its Substrate Misrecognition. <i>Accounts of Chemical Research</i> , 2019, 52, 925-934.	15.6	41
12	The effect of decoy molecules on the activity of the P450Bm3 holoenzyme and a heme domain peroxygenase variant. <i>Catalysis Communications</i> , 2019, 124, 97-102.	3.3	4
13	Dual-Functional Small Molecules for Generating an Efficient Cytochrome P450BM3 Peroxygenase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7628-7633.	13.8	72
14	Dual-Functional Small Molecules for Generating an Efficient Cytochrome P450BM3 Peroxygenase. <i>Angewandte Chemie</i> , 2018, 130, 7754-7759.	2.0	22
15	Efficient hydroxylation of cycloalkanes by co-addition of decoy molecules to variants of the cytochrome P450 CYP102A1. <i>Journal of Inorganic Biochemistry</i> , 2018, 183, 137-145.	3.5	12
16	$\hat{\pm}$ -Oxidative decarboxylation of fatty acids catalysed by cytochrome P450 peroxygenases yielding shorter-alkyl-chain fatty acids. <i>Catalysis Science and Technology</i> , 2018, 8, 434-442.	4.1	27
17	Frontispiece: Whole-Cell Biotransformation of Benzene to Phenol Catalysed by Intracellular Cytochrome P450BM3 Activated by External Additives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, .	13.8	1
18	Frontispiz: Ganzzellbiotransformation von Benzol zu Phenol durch intrazellulÄres Zytochrom P450BM3 aktiviert mithilfe externer ZusÄtze. <i>Angewandte Chemie</i> , 2018, 130, .	2.0	0

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19	Ganzzellbiotransformation von Benzol zu Phenol durch intrazellulÄres Zytochrom P450BM3 aktiviert mithilfe externer ZusÄtze. <i>Angewandte Chemie</i> , 2018, 130, 12444-12449.	2.0	12
20	Reconstitution of full-length P450BM3 with an artificial metal complex by utilising the transpeptidase Sortase A. <i>Chemical Communications</i> , 2018, 54, 7892-7895.	4.1	23
21	Whole-Cell Biotransformation of Benzene to Phenol Catalysed by Intracellular Cytochrome P450BM3 Activated by External Additives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12264-12269.	13.8	43
22	Peptide Nucleic Acid Conjugated with Ruthenium-Complex Stabilizing Double-Duplex Invasion Complex Even under Physiological Conditions. <i>ChemBioChem</i> , 2018, 19, 1601-1604.	2.6	19
23	Direct Hydroxylation of Benzene to Phenol by Cytochrome P450BM3 Triggered by Amino Acid Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10324-10329.	13.8	62
24	Direct Hydroxylation of Benzene to Phenol by Cytochrome P450BM3 Triggered by Amino Acid Derivatives. <i>Angewandte Chemie</i> , 2017, 129, 10460-10465.	2.0	23
25	Use of apomyoglobin to gently remove heme from a H <sub>2</sub> O <sub>2</sub> -dependent cytochrome P450 and allow its reconstitution. <i>New Journal of Chemistry</i> , 2017, 41, 302-307.	2.8	13
26	Inhibiting Aggregation of Î²-Amyloid by Folded and Unfolded Forms of Fimbrial Protein of Gram-Negative Bacteria. <i>ChemistrySelect</i> , 2017, 2, 9058-9062.	1.5	0
27	Structures of the Heme Acquisition Protein HasA with Iron(III)-5,15-Diphenylporphyrin and Derivatives Thereof as an Artificial Prosthetic Group. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15279-15283.	13.8	15
28	Structures of the Heme Acquisition Protein HasA with Iron(III)-5,15-Diphenylporphyrin and Derivatives Thereof as an Artificial Prosthetic Group. <i>Angewandte Chemie</i> , 2017, 129, 15481-15485.	2.0	6
29	Frontispiece: Direct Hydroxylation of Benzene to Phenol by Cytochrome P450BM3 Triggered by Amino Acid Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	13.8	0
30	Frontispiz: Direct Hydroxylation of Benzene to Phenol by Cytochrome P450BM3 Triggered by Amino Acid Derivatives. <i>Angewandte Chemie</i> , 2017, 129, .	2.0	0
31	InnenrÄcktitelbild: Structures of the Heme Acquisition Protein HasA with Iron(III)-5,15-Diphenylporphyrin and Derivatives Thereof as an Artificial Prosthetic Group ( <i>Angew. Chem.</i> ) Tj ETQp 1 0.786314 rgf	13.8	15
32	Control of stereoselectivity of benzylic hydroxylation catalysed by wild-type cytochrome P450BM3 using decoy molecules. <i>Catalysis Science and Technology</i> , 2017, 7, 3332-3338.	4.1	30
33	Monoxygenation of Nonnative Substrates Catalyzed by Bacterial Cytochrome P450s Facilitated by Decoy Molecules. <i>Chemistry Letters</i> , 2017, 46, 278-288.	1.3	26
34	A substrate-binding-state mimic of H <sub>2</sub> O <sub>2</sub> -dependent cytochrome P450 produced by one-point mutagenesis and peroxygenation of non-native substrates. <i>Catalysis Science and Technology</i> , 2016, 6, 5806-5811.	4.1	49
35	Improved oxidation of aromatic and aliphatic hydrocarbons using rate enhancing variants of P450Bm3 in combination with decoy molecules. <i>Chemical Communications</i> , 2016, 52, 1036-1039.	4.1	33
36	Effect of nitric oxide on VnfA, a transcriptional activator of VFe-nitrogenase in <i>Azotobacter vinelandii</i> . <i>Journal of Biochemistry</i> , 2015, 157, 365-375.	1.7	1

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37	Activation of Wild-Type Cytochrome P450BM3 by the Next Generation of Decoy Molecules: Enhanced Hydroxylation of Gaseous Alkanes and Crystallographic Evidence. <i>ACS Catalysis</i> , 2015, 5, 150-156.	11.2	73
38	Acetate anion-triggered peroxygenation of non-native substrates by wild-type cytochrome P450s. <i>Dalton Transactions</i> , 2015, 44, 15316-15323.	3.3	21
39	Highly efficient hydroxylation of gaseous alkanes at reduced temperature catalyzed by cytochrome P450BM3 assisted by decoy molecules. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 329-334.	0.8	6
40	Bringing out the Potential of Wild-Type Cytochrome P450s using Decoy Molecules: Oxygenation of Nonnative Substrates by Bacterial Cytochrome P450s. <i>Israel Journal of Chemistry</i> , 2015, 55, 32-39.	2.3	20
41	Inhibition of Heme Uptake in <i>Pseudomonas aeruginosa</i> by its Hemophore (HasA) Bound to Synthetic Metal Complexes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2862-2866.	13.8	34
42	Peroxygenase reactions catalyzed by cytochromes P450. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 529-539.	2.6	120
43	Azurin-DNA Conjugate with the Binding Motif of a Transcriptional Regulator, CooA: CO-dependent Modulation of the Electron-transfer Reaction. <i>Chemistry Letters</i> , 2014, 43, 1204-1206.	1.3	1
44	Inhibition of Heme Uptake in <i>Pseudomonas aeruginosa</i> by its Hemophore (HasA) Bound to Synthetic Metal Complexes ( <i>Angew. Chem.</i> 11/2014). <i>Angewandte Chemie</i> , 2014, 126, 2820-2820.	2.0	0
45	Oxygenation of Nonnative Substrates Using a Malfunction State of Cytochrome P450s. , 2014, , 107-124.		3
46	Direct hydroxylation of primary carbons in small alkanes by wild-type cytochrome P450BM3 containing perfluorocarboxylic acids as decoy molecules. <i>Chemical Science</i> , 2013, 4, 2344.	7.4	59
47	Highly Selective Hydroxylation of Benzene to Phenol by Wild-Type Cytochrome P450BM3 Assisted by Decoy Molecules. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6606-6610.	13.8	129
48	Construction of biocatalysts using the myoglobin scaffold for the synthesis of indigo from indole. <i>Catalysis Science and Technology</i> , 2012, 2, 739-744.	4.1	21
49	Single-Step Reconstitution of Apo-Hemoproteins at the Disruption Stage of <i>Escherichia coli</i> Cells. <i>ChemBioChem</i> , 2012, 13, 2045-2047.	2.6	31
50	Chiral-Substrate-Assisted Stereoselective Epoxidation Catalyzed by H <sub>2</sub> O <sub>2</sub> -Dependent Cytochrome P450 <sub>SPL</sub> . <i>Chemistry - an Asian Journal</i> , 2012, 7, 2286-2293.	3.3	26
51	Coordination Chemistry in Protein Cages: From Heme Proteins to Organometallo-enzymes. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2012, 59, 11-25.	0.2	1
52	Molecular Design of Heme Proteins for Future Application. <i>Catalysis Surveys From Asia</i> , 2011, 15, 134-143.	2.6	1
53	Use of Perfluorocarboxylic Acids To Trick Cytochrome P450BM3 into Initiating the Hydroxylation of Gaseous Alkanes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5315-5318.	13.8	130
54	Non-covalent modification of the active site of cytochrome P450 for inverting the stereoselectivity of monooxygenation. <i>Tetrahedron Letters</i> , 2011, 52, 395-397.	1.4	23

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55	Crystal Structure of H <sub>2</sub> O <sub>2</sub> -dependent Cytochrome P450SP1± with Its Bound Fatty Acid Substrate. <i>Journal of Biological Chemistry</i> , 2011, 286, 29941-29950.	3.4	103
56	Aromatic C-H bond hydroxylation by P450 peroxygenases: a facile colorimetric assay for monooxygenation activities of enzymes based on Russig's blue formation. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 1109-1115.	2.6	37
57	Understanding substrate misrecognition of hydrogen peroxide dependent cytochrome P450 from <i>Bacillus subtilis</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 1331-1339.	2.6	35
58	Protein engineering: Construction of Robust Bio-nanotubes using the Controlled Self-Assembly of Component Proteins of Bacteriophage T4 (Small 17/2010). <i>Small</i> , 2010, 6, n/a-n/a.	10.0	0
59	Reactivities of Oxo and Peroxo Intermediates Studied by Hemoprotein Mutants. <i>Accounts of Chemical Research</i> , 2007, 40, 554-562.	15.6	129
60	Incorporation of a Phebox Rhodium Complex into apo-Myoglobin Affords a Stable Organometallic Protein Showing Unprecedented Arrangement of the Complex in the Cavity. <i>Organometallics</i> , 2007, 26, 4904-4908.	2.3	33
61	Hydrogen Peroxide Dependent Monooxygenations by Tricking the Substrate Recognition of Cytochrome P450BS1 <sup>2</sup> . <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3656-3659.	13.8	132
62	1P104 Conformational Changes during Apoplastocyanin Folding Observed by Photocleavable Modification and Transient Grating(3. Protein folding and misfolding (I),Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 501457 Td (Session,Ab	50.4	57
63	Functionalization of Myoglobin. <i>Progress in Inorganic Chemistry</i> , 2005, , 449-493.	3.0	12
64	Molecular engineering of cytochrome P450 and myoglobin for selective oxygenations. <i>Journal of Porphyrins and Phthalocyanines</i> , 2004, 08, 279-289.	0.8	11
65	Why do nitrogenases waste electrons by evolving dihydrogen?. <i>Applied Organometallic Chemistry</i> , 2004, 18, 589-594.	3.5	15
66	Introduction of P450, Peroxidase, and Catalase Activities into Myoglobin by Site-Directed Mutagenesis: Diverse Reactivities of Compound I. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 1309-1322.	3.2	39
67	pH-Dependent Transfer Hydrogenation of Ketones with HCOONa as a Hydrogen Donor Promoted by (1-6-C6Me6)Ru Complexes. <i>Organometallics</i> , 2002, 21, 2964-2969.	2.3	171
68	Investigations of the Roles of the Distal Heme Environment and the Proximal Heme Iron Ligand in Peroxide Activation by Heme Enzymes via Molecular Engineering of Myoglobin. <i>Accounts of Chemical Research</i> , 2001, 34, 818-825.	15.6	151
69	Formation and Catalytic Roles of Compound I in the Hydrogen Peroxide-Dependent Oxidations by His64 Myoglobin Mutants. <i>Journal of the American Chemical Society</i> , 1999, 121, 9952-9957.	13.7	108