

# Stefano Servi

## List of Publications by Year in descending order

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91  
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2,895  
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189892

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docs citations

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times ranked

1739  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Continuous Flow Cascade Reactor System for Subtilisin A-Catalyzed Dynamic Kinetic Resolution of <i>N</i> -tert-Butyloxycarbonylphenylalanine Ethyl Thioester with Benzylamine. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 1608-1617.	4.3	32
2	A thermostable L-aspartate oxidase: a new tool for biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7285-7295.	3.6	25
3	Synergy between catalysts: enzymes and bases. DKR of non-natural amino acids derivatives. <i>Catalysis Science and Technology</i> , 2012, 2, 1606.	4.1	32
4	Naphthyl- $\beta$ -amino acids via chemo-enzymatic dynamic kinetic resolution. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 938-944.	1.8	37
5	Base catalyzed racemization of amino acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 851-856.	1.8	16
6	<i>L</i> -Amino Acid Amides via Dynamic Kinetic Resolution. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2333-2338.	4.3	18
7	Synthesis of Lyso-phospholipids. <i>Molecules</i> , 2010, 15, 1354-1377.	3.8	115
8	Chemo-enzymatic synthesis of ethyl (R)-2-hydroxy-4-phenylbutyrate. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 914-918.	1.8	14
9	The possible role of enantiodiscrimination in bilirubin toxicity. <i>Chirality</i> , 2009, 21, 87-91.	2.6	8
10	New Aliphatic Glycerophosphoryl-Containing Polyurethanes: Synthesis, Platelet Adhesion and Elution Cytotoxicity Studies. <i>International Journal of Artificial Organs</i> , 2009, 32, 204-212.	1.4	3
11	Discrimination of Chain Positions in Mixed Short/Long-Chain Glycerophosphocholines by NMR Chemical Shift Variations. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 1005-1011.	1.9	1
12	Chemo-enzymatic deracemization methods for the preparation of enantiopure non-natural $\beta$ -amino acids. <i>Coordination Chemistry Reviews</i> , 2008, 252, 715-726.	18.8	84
13	Activity of yeast d-amino acid oxidase on aromatic unnatural amino acids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 50, 93-98.	1.8	10
14	Chemo-Enzymatic Dynamic Kinetic Resolution of Amino Acid Thioesters. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1345-1348.	4.3	29
15	A practical selective synthesis of mixed short/long chains glycerophosphocholines. <i>Chemistry and Physics of Lipids</i> , 2007, 147, 113-118.	3.2	29
16	Multistep enzyme catalysed deracemisation of 2-naphthyl alanine. <i>Biocatalysis and Biotransformation</i> , 2006, 24, 409-413.	2.0	33
17	Diol-tin ketal as effective catalyst in the tin mediated benzoylation of polyols. <i>Journal of Molecular Catalysis A</i> , 2006, 244, 41-45.	4.8	8
18	Tin-mediated synthesis of lyso-phospholipids. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2974.	2.8	31

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19	Enzymatic approach to both enantiomers of N-Boc hydrophobic amino acids. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1995-1999.	1.8	21
20	Enzymatic Conversion of Unnatural Amino Acids by Yeast D-Amino Acid Oxidase. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2183-2190.	4.3	59
21	Membrane assisted coupled enzyme system for phospholipid modification. <i>Enzyme and Microbial Technology</i> , 2005, 37, 435-440.	3.2	5
22	Synthesis and antiproliferative activity of alkylphosphocholines. <i>Chemistry and Physics of Lipids</i> , 2003, 126, 201-210.	3.2	17
23	Cloning and expression in <i>Escherichia coli</i> of the gene encoding <i>Streptomyces</i> PMF PLD, a phospholipase D with high transphosphatidylase activity. <i>Enzyme and Microbial Technology</i> , 2003, 33, 676-688.	3.2	37
24	Bioreduction of aromatic ketones: preparation of chiral benzyl alcohols in both enantiomeric forms. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 415-421.	1.8	28
25	A biocatalytic resolution of chiral ketals, intermediates in the synthesis ofazole drugs. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 427-432.	1.8	1
26	Bis-phenacetyl and phenoxyacetyl groups as substrates for penG and penV amidases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 487-490.	1.8	0
27	The substrate requirements of phospholipase D. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 433-438.	1.8	9
28	Crystallization and preliminary X-ray diffraction studies of phospholipase D from <i>Streptomyces</i> sp.. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 466-468.	2.5	14
29	The first crystal structure of a phospholipase D. <i>Structure</i> , 2000, 8, 655-667.	3.3	167
30	Phospholipases as Synthetic Catalysts. <i>Topics in Current Chemistry</i> , 1999, , 127-158.	4.0	62
31	Chemo-enzymatic synthesis of (R)- and (S)-3,4-dichlorophenylbutanolide intermediate in the synthesis of sertraline. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 3931-3937.	1.8	23
32	Phospholipids hydrolysis in organic solvents catalysed by immobilised phospholipase C. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 6, 125-132.	1.8	22
33	On the microbial transformation of $\hat{1}\pm, \hat{1}^2$ -unsaturated aryl ketones by the fungus <i>Beauveria bassiana</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1998, 4, 47-52.	1.8	19
34	Extractive biocatalysis: A powerful tool in selectivity control in yeast biotransformations. <i>Tetrahedron</i> , 1998, 54, 15017-15026.	1.9	52
35	Chemo-enzymatic synthesis of the active enantiomer of the anorectic 2-benzylmorpholine. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 4021-4026.	1.8	36
36	A Strategy for the Transformation of a Multifunctional Chiral Synthon of Moderate ee into an Enantiomerically Pure Synthetic Intermediate. <i>Journal of Organic Chemistry</i> , 1997, 62, 6394-6396.	3.2	10

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37	On the Kinetic Mechanism of Phospholipase D from <i>Streptomyces</i> SP. In an Emulsion System. <i>Biocatalysis and Biotransformation</i> , 1997, 15, 251-264.	2.0	10
38	Using phospholipases for phospholipid modification. <i>Trends in Biotechnology</i> , 1997, 15, 90-96.	9.3	87
39	The effect of absorbing resins on substrate concentration and enantiomeric excess in yeast reduction. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 2375-2379.	1.8	50
40	Microbially-aided preparation of (S)-2-Methoxycyclohexanone key intermediate in the synthesis of Sanfetrinem. <i>Tetrahedron</i> , 1997, 53, 2617-2624.	1.9	19
41	Stereochemistry of the Baeyer-Villiger-Type Conversion of 4-(4-Hydroxyphenyl)butan-2-one (Raspberry) <i>Tetrahedron: Asymmetry</i> , 1997, 8, 2375-2379.	1.0	9
42	Biogenesis and Biodegradation of Raspberry Ketone in the Fungus <i>Beauveria bassiana</i> . <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 3616-3619.	5.2	17
43	Evidence for an Essential Lysyl Residue in Phospholipase D from <i>Streptomyces</i> sp. by Modification with Diethyl Pyrocarbonate and Pyridoxal 5-Phosphate. <i>Biochemistry</i> , 1996, 35, 9631-9636.	2.5	25
44	Enzyme-mediated synthesis of two diastereoisomeric forms of phosphatidylglycerol and of diphosphatidylglycerol (cardiolipin). <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996, , 2657.	0.9	19
45	Preparative transformation of natural phospholipids catalysed by phospholipase D from <i>Streptomyces</i> . <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996, , 2651.	0.9	28
46	On the stereochemistry of the Baeyer-Villiger degradation of arylalkylketones structurally related to raspberry ketone by <i>Beauveria bassiana</i> . <i>Tetrahedron: Asymmetry</i> , 1996, 7, 3129-3134.	1.8	17
47	A spectrophotometric assay for phospholipase D. <i>Analytica Chimica Acta</i> , 1995, 304, 249-254.	5.4	58
48	Baker's yeast reduction of arylidenecycloalkanones. <i>Tetrahedron</i> , 1995, 51, 10231-10240.	1.9	18
49	On the mode of baker's yeast reduction of benzylidenecyclohexanone. <i>Tetrahedron Letters</i> , 1995, 36, 123-124.	1.4	22
50	Purification and properties of two phospholipases D from <i>Streptomyces</i> sp.. <i>Lipids and Lipid Metabolism</i> , 1995, 1255, 273-279.	2.6	70
51	Indirect enzymatic phosphorylation: preparation of dihydroxyacetone phosphate. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2505.	2.0	11
52	Selective transformations of penicillins and cephalosporins with pen G acylase. <i>Biotechnology Letters</i> , 1994, 16, 919-922.	2.2	0
53	On the mechanism of baker's yeast mediated synthesis of (R) S-benzyl thioglycerate. <i>Experiments in deuterated water. Tetrahedron</i> , 1994, 50, 857-864.	1.9	2
54	Stereochemistry of the microbial reduction of ketolactones. <i>Biotechnology Letters</i> , 1994, 16, 1047-1052.	2.2	1

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55	Stereochemistry of Baker's yeast mediated reduction of $\hat{1}\pm, \hat{1}^2$ -unsaturated $\hat{1}$ -lactones in the goniiothalamine series.. <i>Tetrahedron: Asymmetry</i> , 1994, 5, 1135-1138.	1.8	26
56	Phospholipase D from <i>Streptomyces</i> catalyses the transfer of secondary alcohols. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1709.	2.0	21
57	On the mechanism of the formation of tetrahydrofurans from 1,4-diols mediated by triphenylphosphine and N-bromosuccinimide. <i>Tetrahedron Letters</i> , 1993, 34, 2981-2984.	1.4	6
58	A simple assay for the quantitative evaluation of Phospholipase D activity. <i>Biotechnology Letters</i> , 1993, 7, 795-798.	0.5	5
59	pH dependence of the baker's yeast conversion of 4-benzoyloxy-crotonaldehyde into the 1-benzoate of (2R) 1,2,4-butanetriol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1993, 3, 2785-2788.	2.2	2
60	Microbial generation of (2R,3S)- and (2S,3S)-ethyl 2-benzamidomethyl-3-hydroxybutyrate, a key intermediate in the synthesis of (3S,1 $\hat{a}$ $\hat{e}$ $\hat{2}$ R)-3-(1 $\hat{a}$ $\hat{e}$ $\hat{2}$ -hydroxyethyl)azetidin-2-one. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1993, , 2247-2249.	0.9	23
61	The Use of Immobilized Penicillin G Acylase in Organic Synthesis. , 1992, , 175-188.		20
62	Bakers' yeast reduction of thiophenepropenals. Enantioselective synthesis of (S)-2-methyl-1-alkanols via bakers' yeast mediated reduction of 2-methyl-3-(2-thiophene)propenals. <i>Journal of Organic Chemistry</i> , 1992, 57, 2052-2059.	3.2	59
63	On the origin of the C3 framework of yeast-generated (R)-S-benzylthioglycerate. <i>Journal of Organic Chemistry</i> , 1992, 57, 999-1002.	3.2	5
64	Enzyme assisted synthesis of (S)-sotolon. <i>Tetrahedron Letters</i> , 1992, 33, 5625-5628.	1.4	11
65	Enantioselective recognition of the phenacetyl moiety in the Pen G acylase catalysed hydrolysis of phenylacetate esters. <i>Tetrahedron: Asymmetry</i> , 1992, 3, 383-386.	1.8	34
66	Penicillin acylase mediated synthesis of formyl cefamandole. <i>Biotechnology Letters</i> , 1992, 14, 543-546.	2.2	17
67	Hydrolytic and reductive action of fermenting yeast on a keto acetate: synthesis of (+)-endo-brevicomine. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991, , 1764.	0.9	13
68	On the mode of baker's yeast reduction of enantiomeric 4-acyl butanolides. <i>Tetrahedron</i> , 1991, 47, 9247-9252.	1.9	6
69	Biotransformation of unsaturated aldehydes by microorganisms with pyruvate decarboxylase activity. <i>Applied Microbiology and Biotechnology</i> , 1991, 36, 300.	3.6	21
70	(S)-2-Methyl-3-phenylpropanethiol Hemisuccinate: a New Chiral Material with Partial Kinetic Resolution from Baker's Yeast Incubation of Racemic 2-Methyl-3-Phenylpropanethiol. <i>Agricultural and Biological Chemistry</i> , 1991, 55, 1643-1644.	0.3	0
71	Lipase Catalyzed Regioselective Esterification of a Terminal Diol. <i>Chemistry Letters</i> , 1990, 19, 1137-1140.	1.3	10
72	Chemo-enzymatic alkylation of active methylene compounds. <i>Tetrahedron Letters</i> , 1990, 31, 4195-4198.	1.4	20

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73	Baker's Yeast as a Reagent in Organic Synthesis. <i>Synthesis</i> , 1990, 1990, 1-25.	2.3	499
74	On the Products Obtained from $\hat{I}^3$ -Oxygen Substituted Crotonaldehyde in Fermenting Baker's Yeast. <i>Biocatalysis</i> , 1990, 3, 51-56.	0.9	11
75	Stereoselective Preparation of Allylic Alcohol Intermediates in the Synthesis of Deoxysugars. <i>Journal of Carbohydrate Chemistry</i> , 1990, 9, 317-332.	1.1	1
76	(R)-S-Benzyl Thioglycerate, a New C3Bifunctional Chiral Material Obtained in Fermenting Baker's Yeast from Benzyl Mercaptan. <i>Chemistry Letters</i> , 1989, 18, 2141-2144.	1.3	6
77	Substrate specificity and enantioselectivity of penicillinacylase catalyzed hydrolysis of phenacetyl esters of synthetically useful carbinols. <i>Tetrahedron</i> , 1988, 44, 2575-2582.	1.9	43
78	Conversion of 4-oxy-substituted crotonaldehyde into 1-protected (2R)-1,2,4-butanetriol: a new synthetic capacity of bakers' yeast. <i>Journal of Organic Chemistry</i> , 1988, 53, 6153-6154.	3.2	18
79	Decarboxylative incorporation of $\hat{I}^{\pm}$ -oxobutyrate and $\hat{I}^{\pm}$ -oxovalerate into (R)- $\hat{I}^{\pm}$ -hydroxyethyl- and n-propyl ketones on reaction with aromatic and $\hat{I}^{\pm}$ , $\hat{I}^2$ -unsaturated aldehydes in Baker's yeast. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 1619-1621.	2.0	34
80	Bakers' yeast mediated preparation of (S)-3-(2-furyl)-2-methylpropan-1-ol, a bifunctional chiral C5isoprenoid synthon: synthesis of (4R,8R)-4,8-dimethyldecanal, a pheromone of <i>Tribolium castaneum</i> . <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1988, , 3061-3065.	0.9	49
81	Chiral $\hat{I}^{\pm}$ -Methyl-homoallylic Alcohols from Yeast-Generated Precursors. Synthesis of (4R,5S) Sitophilure. <i>Chemistry Letters</i> , 1988, 17, 385-388.	1.3	5
82	Penicillinacylase and $\hat{I}^{\pm}$ -chymotrypsin catalysed hydrolysis of phenylacetate and phenylpropionate esters of 2,2-dimethyl-1,3-dioxolane-4-methanols. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 538-539.	2.0	28
83	Stereochemistry and synthetic applications of the products of yeast reduction of 3-hydroxy-3-methyl-5-phenylpent-4-en-2-one. <i>Journal of Organic Chemistry</i> , 1987, 52, 1141-1144.	3.2	18
84	Immobilized benzylpenicillin acylase: Application to the synthesis of optically active forms of carnitin and propranolol. <i>Tetrahedron Letters</i> , 1986, 27, 2061-2062.	1.4	44
85	Baker's yeast mediated synthesis of epimeric 2,3-dideoxy-2-C-methyl D-glucose derivatives. <i>Tetrahedron Letters</i> , 1986, 27, 4363-4366.	1.4	7
86	Baker's yeast mediated preparation of carbohydrate-like chiral synthons. <i>Tetrahedron Letters</i> , 1985, 26, 4961-4964.	1.4	16
87	2,2,5-Trimethyl-1,3-dioxolane-4-carboxaldehyde as a chiral synthon: synthesis of the two enantiomers of methyl 2,3,6-trideoxy- $\alpha$ -L-threo-hex-2-enopyranoside, key intermediate in the synthesis of daunosamine, and of (+)- and (-)-rhodinoside. <i>Journal of Organic Chemistry</i> , 1985, 50, 5865-5867.	3.2	49
88	On the steric course of bakers' yeast reduction of $\alpha$ -hydroxy ketones. <i>Journal of Organic Chemistry</i> , 1984, 49, 4087-4089.	3.2	37
89	Non-carbohydrate based synthesis of natural LTB4. <i>Tetrahedron Letters</i> , 1983, 24, 5285-5288.	1.4	36
90	Synthesis of the two enantiomeric forms of erythro-6-acetoxy-5-hexadecanolide, the major component of a mosquito oviposition attractant pheromone. <i>Journal of the Chemical Society Chemical Communications</i> , 1982, , 1285.	2.0	25

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91	Synthesis of the enantiomeric forms of and 1-benzyloxy-2,3-epoxy butane and of (3,4) 4-methyl-3-heptanol. Tetrahedron Letters, 1982, 23, 4269-4272.	1.4	25