Stefano Servi

List of Publications by Year in descending order

91 papers	2,895 citations	172457 29 h-index	189892 50 g-index
97 all docs	97 docs citations	97 times ranked	1739 citing authors

#	Article	IF	Citations
1	Baker's Yeast as a Reagent in Organic Synthesis. Synthesis, 1990, 1990, 1-25.	2.3	499
2	The first crystal structure of a phospholipase D. Structure, 2000, 8, 655-667.	3.3	167
3	Synthesis of Lysophospholipids. Molecules, 2010, 15, 1354-1377.	3.8	115
4	Using phospholipases for phospholipid modification. Trends in Biotechnology, 1997, 15, 90-96.	9.3	87
5	Chemo-enzymatic deracemization methods for the preparation of enantiopure non-natural Î±-amino acids. Coordination Chemistry Reviews, 2008, 252, 715-726.	18.8	84
6	Purification and properties of two phospholipases D from Streptomyces sp.. Lipids and Lipid Metabolism, 1995, 1255, 273-279.	2.6	70
7	Phospholipases as Synthetic Catalysts. Topics in Current Chemistry, 1999, , 127-158.	4.0	62
8	Bakers' yeast reduction of thiophenepropaenals. Enantioselective synthesis of (S)-2-methyl-1-alkanols via bakers' yeast mediated reduction of 2-methyl-3-(2-thiophene)propenals. Journal of Organic Chemistry, 1992, 57, 2052-2059.	3.2	59
9	Enzymatic Conversion of Unnatural Amino Acids by YeastD-Amino Acid Oxidase. Advanced Synthesis and Catalysis, 2006, 348, 2183-2190.	4.3	59
10	A spectrophotometric assay for phospholipase D. Analytica Chimica Acta, 1995, 304, 249-254.	5.4	58
11	Extractive biocatalysis: A powerful tool in selectivity control in yeast biotransformations. Tetrahedron, 1998, 54, 15017-15026.	1.9	52
12	The effect of absorbing resins on substrate concentration and enantiomeric excess in yeast reduction. Tetrahedron: Asymmetry, 1997, 8, 2375-2379.	1.8	50
13	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 (-)-rhodinose. Journal of Organic Chemistry, 1985, 50, 5865-5867.	3.2	49
14	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 Tribolium castaneum. Journal of the Chemical Society Perkin Transactions 1, 1988, , 3061-3065.	0.9	49
15	Immobilized benzylpenicillin acylase: Application to the synthesis of optically active forms of carnitin and propranalol. Tetrahedron Letters, 1986, 27, 2061-2062.	1.4	44
16	Substrate specificity and enantioselectivity of penicillinacylase catalyzed hydrolysis of phenacetyl esters of synthetically useful carbinols. Tetrahedron, 1988, 44, 2575-2582.	1.9	43
17	On the steric course of bakers' yeast reduction of .alpha.-hydroxy ketones. Journal of Organic Chemistry, 1984, 49, 4087-4089.	3.2	37
18	Cloning and expression in Escherichia coli of the gene encoding Streptomyces PMF PLD, a phospholipase D with high transphosphatidylation activity. Enzyme and Microbial Technology, 2003, 33, 676-688.	3.2	37

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19	Naphthyl-l-Î±-amino acids via chemo-enzymatic dynamic kinetic resolution. Tetrahedron: Asymmetry, 2012, 23, 938-944.	1.8	37
20	Non-carbohydrate based synthesis of natural LTB4. Tetrahedron Letters, 1983, 24, 5285-5288.	1.4	36
21	Chemo-enzymatic synthesis of the active enantiomer of the anorressant 2-benzylmorpholine. Tetrahedron: Asymmetry, 1998, 9, 4021-4026.	1.8	36
22	Decarboxylative incorporation of Î±-oxobutyrate and Î±-oxovalerate into (R)-Î±-hydroxyethyl- and n-propyl ketones on reaction with aromatic and Î±,Î²-unsaturated aldehydes in Baker's yeast. Journal of the Chemical Society Chemical Communications, 1988, , 1619-1621.	2.0	34
23	Enantioselective recognition of the phenacetyl moiety in the Pen G acylase catalysed hydrolysis of phenylacetate esters. Tetrahedron: Asymmetry, 1992, 3, 383-386.	1.8	34
24	Multistep enzyme catalysed deracemisation of 2-naphthyl alanine. Biocatalysis and Biotransformation, 2006, 24, 409-413.	2.0	33
25	Synergy between catalysts: enzymes and bases. DKR of non-natural amino acids derivatives. Catalysis Science and Technology, 2012, 2, 1606.	4.1	32
26	A Continuousâ€Flow Cascade Reactor System for Subtilisin Aâ€•Catalyzed Dynamic Kinetic Resolution of Nâ€tertâ€Butyloxycarbonylphenylalanine Ethyl Thioester with Benzylamine. Advanced Synthesis and Catalysis, 2016, 358, 1608-1617.	4.3	32
27	Tin-mediated synthesis of lyso-phospholipids. Organic and Biomolecular Chemistry, 2006, 4, 2974.	2.8	31
28	Chemo-Enzymatic Dynamic Kinetic Resolution of Amino Acid Thioesters. Advanced Synthesis and Catalysis, 2007, 349, 1345-1348.	4.3	29
29	A practical selective synthesis of mixed short/long chains glycerophosphocholines. Chemistry and Physics of Lipids, 2007, 147, 113-118.	3.2	29
30	Penicillinacylase and Î±-chymotrypsin catalysed hydrolysis of phenylacetate and phenylpropionate esters of 2,2-dimethyl-1,3-dioxolane-4-methanols. Journal of the Chemical Society Chemical Communications, 1987, , 538-539.	2.0	28
31	Preparative transformation of natural phospholipids catalysed by phospholipase D from Streptomyces. Journal of the Chemical Society Perkin Transactions 1, 1996, , 2651.	0.9	28
32	Bioreduction of aromatic ketones: preparation of chiral benzyl alcohols in both enantiomeric forms. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 415-421.	1.8	28
33	Stereochemistry of Baker's yeast mediated reduction of Î±,Î²-unsaturated Î³-lactones in the goniothalamin series.. Tetrahedron: Asymmetry, 1994, 5, 1135-1138.	1.8	26
34	Synthesis of the two enantiomeric forms of erythro-6-acetoxy-5-hexadecanolide, the major component of a mosquito oviposition attractant pheramone. Journal of the Chemical Society Chemical Communications, 1982, , 1285.	2.0	25
35	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
36	Evidence for an Essential Lysyl Residue in Phospholipase D from Streptomyces sp. by Modification with Diethyl Pyrocarbonate and Pyridoxal 5-Phosphate. Biochemistry, 1996, 35, 9631-9636.	2.5	25

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37	A thermostable L-aspartate oxidase: a new tool for biotechnological applications. Applied Microbiology and Biotechnology, 2013, 97, 7285-7295.	3.6	25
38	Microbial generation of (2R,3S)- and (2S,3S)-ethyl 2-benzamidomethyl-3-hydroxybutyrate, a key intermediate in the synthesis of (3S,1â€²R)-3-(1â€²-hydroxyethyl)azetidin-2-one. Journal of the Chemical Society Perkin Transactions 1, 1993, , 2247-2249.	0.9	23
39	Chemo-enzymatic synthesis of (R)- and (S)-3,4-dichlorophenylbutanolide intermediate in the synthesis of sertraline. Tetrahedron: Asymmetry, 1999, 10, 3931-3937.	1.8	23
40	On the mode of baker's yeast reduction of benzylidenecyclohexanone. Tetrahedron Letters, 1995, 36, 123-124.	1.4	22
41	Phospholipids hydrolysis in organic solvents catalysed by immobilised phospholipase C. Journal of Molecular Catalysis B: Enzymatic, 1999, 6, 125-132.	1.8	22
42	Biotransformation of unsaturated aldehydes by microorganisms with pyruvate decarboxylase activity. Applied Microbiology and Biotechnology, 1991, 36, 300.	3.6	21
43	Phospholipase D from Streptomyces catalyses the transfer of secondary alcohols. Journal of the Chemical Society Chemical Communications, 1994, , 1709.	2.0	21
44	Enzymatic approach to both enantiomers of N-Boc hydrophobic amino acids. Tetrahedron: Asymmetry, 2006, 17, 1995-1999.	1.8	21
45	Chemo-enzymatic alkylation of active methyleme compounds. Tetrahedron Letters, 1990, 31, 4195-4198.	1.4	20
46	The Use of Immobilized Penicillin G Acylase in Organic Synthesis. , 1992, , 175-188.		20
47	Enzyme-mediated synthesis of two diastereoisomeric forms of phosphatidylglycerol and of diphosphatidylglycerol (cardiolipin). Journal of the Chemical Society Perkin Transactions 1, 1996, , 2657.	0.9	19
48	Microbially-aided preparation of (S)-2-Methoxycyclohexanone key intermediate in the synthesis of Sanfetrinem. Tetrahedron, 1997, 53, 2617-2624.	1.9	19
49	On the microbial transformation of Î±,Î²-unsaturated aryl ketones by the fungus Beauveria bassiana. Journal of Molecular Catalysis B: Enzymatic, 1998, 4, 47-52.	1.8	19
50	Stereochemistry and synthetic applications of the products of yeast reduction of 3-hydroxy-3-methyl-5-phenylpent-4-en-2-one. Journal of Organic Chemistry, 1987, 52, 1141-1144.	3.2	18
51	Conversion of 4-oxy-substituted crotonaldehyde into 1-protected (2R)-1,2,4-butanetriol: a new synthetic capacity of bakers' yeast. Journal of Organic Chemistry, 1988, 53, 6153-6154.	3.2	18
52	Baker's yeast reduction of arylidenecycloalkanones. Tetrahedron, 1995, 51, 10231-10240.	1.9	18
53	<scp>L</scp>â€Amino Acid Amides via Dynamic Kinetic Resolution. Advanced Synthesis and Catalysis, 2011, 353, 2333-2338.	4.3	18
54	Penicilin acylase mediated synthesis of formyl cefamandole. Biotechnology Letters, 1992, 14, 543-546.	2.2	17

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55	Biogeneration and Biodegradation of Raspberry Ketone in the FungusBeauveria bassiana. Journal of Agricultural and Food Chemistry, 1996, 44, 3616-3619.	5.2	17
56	On the stereochemistry of the Baeyer-Villiger degradation of arylalkylketones structurally related to raspberry ketone by Beauveria bassiana. Tetrahedron: Asymmetry, 1996, 7, 3129-3134.	1.8	17
57	Synthesis and antiproliferative activity of alkylphosphocholines. Chemistry and Physics of Lipids, 2003, 126, 201-210.	3.2	17
58	Baker's yeast mediated preparation of carbohydrate-like chiral synthons. Tetrahedron Letters, 1985, 26, 4961-4964.	1.4	16
59	Base catalyzed racemization of amino acid derivatives. Tetrahedron: Asymmetry, 2011, 22, 851-856.	1.8	16
60	Crystallization and preliminary X-ray diffraction studies of phospholipase D fromStreptomycessp.. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 466-468.	2.5	14
61	Chemo-enzymatic synthesis of ethyl (R)-2-hydroxy-4-phenylbutyrate. Tetrahedron: Asymmetry, 2010, 21, 914-918.	1.8	14
62	Hydrolytic and reductive action of fermenting yeast on a keto acetate: synthesis of (+)-endo-brevicomin. Journal of the Chemical Society Perkin Transactions 1, 1991, , 1764.	0.9	13
63	On the Products Obtained from Î³-Oxygen Substituted Crotonaldehyde in Fermenting Baker's Yeast. Biocatalysis, 1990, 3, 51-56.	0.9	11
64	Enzyme assisted synthesis of (S)-sotolon. Tetrahedron Letters, 1992, 33, 5625-5628.	1.4	11
65	Indirect enzymatic phosphorylation: preparation of dihydroxyacetone phosphate. Journal of the Chemical Society Chemical Communications, 1995, , 2505.	2.0	11
66	Lipase Catalyzed Regioselective Esterification of a Terminal Diol. Chemistry Letters, 1990, 19, 1137-1140.	1.3	10
67	A Strategy for the Transformation of a Multifunctional Chiral Synthon of Moderate ee into an Enantiomerically Pure Synthetic Intermediate. Journal of Organic Chemistry, 1997, 62, 6394-6396.	3.2	10
68	On the Kinetic Mechanism of Phospholipase D fromStreptomycesSP. In an Emulsion System. Biocatalysis and Biotransformation, 1997, 15, 251-264.	2.0	10
69	Activity of yeast d-amino acid oxidase on aromatic unnatural amino acids. Journal of Molecular Catalysis B: Enzymatic, 2008, 50, 93-98.	1.8	10
70	Stereochemistry of the Baeyerâ^'Villiger-Type Conversion of 4-(4-Hydroxyphenyl)butan-2-one (Raspberry) Tj ETQq0 0 0 rgBT /Overlock 10	3.2	9
71	The substrate requirements of phospholipase D. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 433-438.	1.8	9
72	Diol-tin ketal as effective catalyst in the tin mediated benzoylation of polyols. Journal of Molecular Catalysis A, 2006, 244, 41-45.	4.8	8

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73	The posssible role of enantiodiscrimination in bilirubin toxicity. Chirality, 2009, 21, 87-91.	2.6	8
74	Baker's yeast mediated synthesis of epimeric 2,3-dideoxy-2-C-methyl D-glucose derivatives. Tetrahedron Letters, 1986, 27, 4363-4366.	1.4	7
75	(R)-S-Benzyl Thioglycerate, a New C3Bifunctional Chiral Material Obtained in Fermenting Bakerâ€™s Yeast from Benzyl Mercaptan. Chemistry Letters, 1989, 18, 2141-2144.	1.3	6
76	On the mode of baker's yeast reduction of enantiomeric 4-acyl butanolides. Tetrahedron, 1991, 47, 9247-9252.	1.9	6
77	On the mechanism of the formation of tetrahydrofurans from 1,4-diols mediated by triphenylphosphine and N-bromosuccinimide. Tetrahedron Letters, 1993, 34, 2981-2984.	1.4	6
78	Chiral Î±-Methyl-homoallylic Alcohols from Yeast-Generated Precursors. Synthesis of (4R,5S) Sitophilure. Chemistry Letters, 1988, 17, 385-388.	1.3	5
79	On the origin of the C3 framework of yeast-generated (R)-S-benzylthioglycerate. Journal of Organic Chemistry, 1992, 57, 999-1002.	3.2	5
80	A simple assay for the quantitative evaluation of Phospholipase D activity. Biotechnology Letters, 1993, 7, 795-798.	0.5	5
81	Membrane assisted coupled enzyme system for phospholipid modification. Enzyme and Microbial Technology, 2005, 37, 435-440.	3.2	5
82	New Aliphatic Glycerophosphoryl-Containing Polyurethanes: Synthesis, Platelet Adhesion and Elution Cytotoxicity Studies. International Journal of Artificial Organs, 2009, 32, 204-212.	1.4	3
83	pH dependence of the baker's yeast conversion of 4-benzoyloxy-crotonaldehyde into the 1-benzoate of (2R) 1,2,4-butanetriol. Bioorganic and Medicinal Chemistry Letters, 1993, 3, 2785-2788.	2.2	2
84	On the mechanism of baker's yeast mediated synthesis of (R) S-benzyl thioglycerate. Experiments in deuterated water. Tetrahedron, 1994, 50, 857-864.	1.9	2
85	Stereoselective Preparation of Allylic Alcohol Intermediates in the Synthesis of Deoxysugars. Journal of Carbohydrate Chemistry, 1990, 9, 317-332.	1.1	1
86	Stereochemistry of the microbial reduction of ketolactones. Biotechnology Letters, 1994, 16, 1047-1052.	2.2	1
87	A biocatalytic resolution of chiral ketals, intermediates in the synthesis of azole drugs. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 427-432.	1.8	1
88	Discrimination of Chain Positions in Mixed Short/Longâ€€Chain Glycerophosphocholines by NMR Chemical Shift Variations. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 1005-1011.	1.9	1
89	(S)-2-Methyl-3-phenylpropanethiol Hemisuccinate: a New Chiral Material with Partial Kinetic Resolution from Bakerâ€™s Yeast Incubation of Racemic 2-Methyl-3-Phenylpropanethiol. Agricultural and Biological Chemistry, 1991, 55, 1643-1644.	0.3	0
90	Selective transformations of penicillins and cephalosporins with pen G acylase. Biotechnology Letters, 1994, 16, 919-922.	2.2	0

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91	Bis-phenacetyl and phenoxyacetyl groups as substrates for penG and penV amidases. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 487-490.	1.8	0