Guido Sello

List of Publications by Year
in descending order

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107	1,824	304743	345221
papers	citations	22 h-index	36 g-index

117	117	117	1595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silver as a powerful electrocatalyst for organic halide reduction: the critical role of molecular structure. Electrochimica Acta, 2001, 46, 3245-3258.	5.2	150
2	Electrocatalytic potentialities of silver as a cathode for organic halide reductions. Electrochemistry Communications, 2000, 2, 491-496.	4.7	96
3	Organization and Regulation of meta Cleavage Pathway Genes for Toluene and o -Xylene Derivative Degradation in Pseudomonas stutzeri OX1. Applied and Environmental Microbiology, 2001, 67, 3304-3308.	3.1	89
4	A New Biocatalyst for Production of Optically Pure Aryl Epoxides by Styrene Monooxygenase from Pseudomonas fluorescens ST. Applied and Environmental Microbiology, 1999, 65, 2794-2797.	3.1	54
5	Characterization of Rhodococcus opacus R7, a strain able to degrade naphthalene and -xylene isolated from a polycyclic aromatic hydrocarbon-contaminated soil. Research in Microbiology, 2001, 152, 641-651.	2.1	52
6	Electroreduction of volatile organic halides on activated silver cathodes. Journal of Applied Electrochemistry, 2005, 35, 363-368.	2.9	50
7	Identification of a bacteriocin-like compound from Lactobacillus plantarum with antimicrobial activity and effects on normal and cancerogenic human intestinal cells. AMB Express, 2019, 9, 88.	3.0	49
8	Bioconversion of substituted styrenes to the corresponding enantiomerically pure epoxides by a recombinant Escherichia coli strain. Tetrahedron Letters, 2000, 41, 9157-9161.	1.4	47
9	Extraction and Characterization of Inulin-Type Fructans from Artichoke Wastes and Their Effect on the Growth of Intestinal Bacteria Associated with Health. BioMed Research International, 2019, 2019, 1-8.	1.9	45
10	Transition Metals-Mediated Reformatsky Reactions. Current Organic Synthesis, 2004, 1, 111-135.	1.3	42
11	Reaction prediction: the suggestions of the Beppe program. Journal of Chemical Information and Computer Sciences, 1992, 32, 713-717.	2.8	33
12	Glycosyl Halides as Building Blocks for the Electrosynthesis of Glycosides. Journal of the Electrochemical Society, 1998, 145, 1108-1112.	2.9	33
13	Cycloartane triterpene glycosides from EgyptianAstragalus species. Phytochemistry, 1990, 29, 3271-3274.	2.9	32
14	Production of substituted naphthalene dihydrodiols by engineered Escherichia coli containing the cloned naphthalene 1,2-dioxygenase gene from Pseudomonas fluorescens N3. Research in Microbiology, 1997, 148, 355-364.	2.1	31
15	Bacterial monooxygenase mediated preparation of nonracemic chiral oxiranes: study of the effects of substituent nature and position. Tetrahedron: Asymmetry, 2004, 15, 1603-1606.	1.8	31
16	Synthesis of enantiopure 2-amino-1-phenyl and 2-amino-2-phenyl ethanols using enantioselective enzymatic epoxidation and regio- and diastereoselective chemical aminolysis. Tetrahedron: Asymmetry, 2006, 17, 372-376.	1.8	30
17	A chemoenzymatic synthesis of (2R)-8-substituted-2-aminotetralins. Tetrahedron: Asymmetry, 2002, 13, 253-259.	1.8	29
18	Design of Î²-amino alcohols as chiral auxiliaries in the electrophilic amination of 1,3,2-oxazaphospholanes. Tetrahedron, 1996, 52, 13783-13794.	1.9	27

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19	Recent Developments in Epoxide Preparation. Current Organic Synthesis, 2006, 3, 457-476.	1.3	27
20	Cathode and medium effects on the electroreductive glucosidation of phenols. Physical Chemistry Chemical Physics, 1999, 1, 2989-2995.	2.8	26
21	(1S,2S)-1-Amino-2-hydroxy-1,2,3,4-tetrahydronaphthalene: a new chiral auxiliary for asymmetric Reformatsky reactions. Tetrahedron: Asymmetry, 2005, 16, 1913-1918.	1.8	24
22	One-Pot Wittig Reactions in Water and in the Presence of a Surfactant. Synlett, 2006, 2006, 1717-1718.	1.8	24
23	Specificity of Substrate Recognition by Pseudomonas fluorescens N3 Dioxygenase. Journal of Biological Chemistry, 1997, 272, 30254-30260.	3.4	23
24	Genome-based analysis for the identification of genes involved in o-xylene degradation in Rhodococcus opacus R7. BMC Genomics, 2018, 19, 587.	2.8	23
25	Studies toward a model for predicting the diastereoselectivity in the electrophilic amination of chiral 1,3,2-oxazaphospholanes. Tetrahedron, 1992, 48, 7275-7288.	1.9	22
26	Top-Priority Fragment QSAR Approach in Predicting Pesticide Aquatic Toxicity. Chemical Research in Toxicology, 2006, 19, 1533-1539.	3.3	21
27	Styrene lower catabolic pathway in Pseudomonas fluorescens ST: identification and characterization of genes for phenylacetic acid degradation. Archives of Microbiology, 2007, 188, 117-125.	2.2	21
28	Microbial enzymes for aromatic compound hydroxylation. Applied Microbiology and Biotechnology, 2011, 90, 1817-1827.	3.6	21
29	Alkylation of chiral phosphonoglycine equivalents: Asymmetric synthesis of diethyl Î±-amino-Î±-alkyl-phosphonates. Tetrahedron, 1995, 51, 1817-1826.	1.9	20
30	Reactivity of Halo Sugars on Silver Cathodes. Collection of Czechoslovak Chemical Communications, 2000, 65, 881-898.	1.0	20
31	Chemoenzymatic synthesis of conduritol analogues. Tetrahedron Letters, 2004, 45, 9253-9255.	1.4	20
32	An Automated Group Contribution Method in Predicting Aquatic Toxicity:â€‰ The Diatomic Fragment Approach. Chemical Research in Toxicology, 2005, 18, 740-746.	3.3	20
33	Residual charges on atoms in organic structures: A new algorithm for their calculation. Tetrahedron Computer Methodology, 1989, 2, 37-46.	0.2	19
34	Enantiopure vic-amino alcohols and vic-diamines from (1R,2S)-1,2-dihydroxy-1,2-dihydronaphthalene. Tetrahedron: Asymmetry, 2001, 12, 2961-2969.	1.8	19
35	Characterization of styrene catabolic pathway in Pseudomonas fluorescens ST. International Biodeterioration and Biodegradation, 2004, 54, 183-187.	3.9	19
36	Dioxygenation of naphthalene byPseudomonas fluorescens N3 dioxygenase: Optimization of the process parameters. Biotechnology and Bioengineering, 2006, 93, 511-518.	3.3	18

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37	Definition and Detection of Outliers in Chemical Space. Journal of Chemical Information and Modeling, 2008, 48, 1592-1601.	5.4	18
38	Organic synthesis planning: a new algorithm for strategic bond perception. Tetrahedron, 1988, 44, 1195-1206.	1.9	15
39	Organic synthesis planning: An algorithm for selecting strategic bond forming sequences. Tetrahedron, 1989, 45, 2665-2676.	1.9	15
40	Reactivity of glucosyl radical in the presence of phenols. Tetrahedron, 1996, 52, 10241-10248.	1.9	15
41	A new definition of functional groups and a general procedure for their identification in organic structures. Journal of the American Chemical Society, 1992, 114, 3306-3311.	13.7	14
42	Asymmetric synthesis of diethyl Î±-amino- Î±-alkyl-phosphonates by alkylation of chiral phosphonoglycine equivalents: Role of chelating effects. Tetrahedron: Asymmetry, 1992, 3, 1131-1134.	1.8	14
43	Multienzymatic preparation of 3-[(1R)-1-hydroxyethyl]benzoic acid and (2S)-hydroxy(phenyl)ethanoic acid. Tetrahedron: Asymmetry, 2010, 21, 1885-1889.	1.8	14
44	Hydrophobic aggregation and collective absorption of dioxin into lipid membranes: insights from atomistic simulations. Physical Chemistry Chemical Physics, 2015, 17, 2344-2348.	2.8	14
45	Similarity Measures:â€‰ Is It Possible To Compare Dissimilar Structures?. Journal of Chemical Information and Computer Sciences, 1998, 38, 691-701.	2.8	13
46	Selective Enzymatic Reduction of Aldehydes. Molecules, 2006, 11, 365-369.	3.8	13
47	A new method for the calculation of atomic and local hardness. Journal of Computational Chemistry, 1990, 11, 694-699.	3.3	12
48	The LILITH approach to organic synthesis planning. Analytica Chimica Acta, 1990, 235, 209-214.	5.4	12
49	Organic phase effect in the biphasic bioconversion of substituted naphthalenes by engineered E. coli containing P. fluorescens N3 dioxygenase. Journal of Molecular Catalysis B: Enzymatic, 2004, 29, 181-186.	1.8	12
50	Synthesis and biological evaluation of new 3-amino-2-azetidinone derivatives as anti-colorectal cancer agents. MedChemComm, 2018, 9, 843-852.	3.4	12
51	Residual charges on atoms in organic structures: Molecules containing charged and backdonating atoms. Tetrahedron Computer Methodology, 1989, 2, 105-118.	0.2	11
52	New method for the calculation of bond native polarity using molecular electronic energy. Journal of Chemical Information and Computer Sciences, 1992, 32, 125-130.	2.8	11
53	Lilith: From childhood to adolescence. Journal of Chemical Information and Modeling, 1994, 34, 120-129.	5.4	11
54	Preparation and Synthetic Use of Enantiopure Naphthalene Dihydrodiols. Mini-Reviews in Organic Chemistry, 2004, 1, 77-92.	1.3	11

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55	Biocatalyst expressing cis-naphthalene dihydrodiol dehydrogenase from Pseudomonas fluorescens N3 catalyzes alcohol and 1,2-diol dehydrogenase reactions. Journal of Molecular Catalysis B: Enzymatic, 2008, 52-53, 67-73.	1.8	11
56	Characterization of the aldol condensation activity of the trans-o-hydroxybenzylidenepyruvate hydratase-aldolase (tHBP-HA) cloned from Pseudomonas fluorescens N3. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 622-629.	2.3	11
57	Computer-assisted organic synthesis planning: effective bond polarity as a guideline to reactivity. Journal of the American Chemical Society, 1991, 113, 2494-2500.	13.7	10
58	One-Pot, Fluoride-Promoted Wittig Reaction. Synthetic Communications, 2009, 39, 2178-2195.	2.1	10
59	Identification of a Novel Biosurfactant with Antimicrobial Activity Produced by Rhodococcus opacus R7. Microorganisms, 2022, 10, 475.	3.6	10
60	Determination of ergothioneine in red blood cells by high-performance liquid chromatography. Biomedical Applications, 1988, 434, 191-195.	1.7	9
61	Residual charges on atoms in organic structures: A new method for the identification of conjugated systems and the evaluation of atomic charge distribution on them. Tetrahedron Computer Methodology, 1989, 2, 93-103.	0.2	9
62	Bioconversion of Substituted Naphthalenes to the Corresponding 1,2-Dihydroxy Derivatives by Escherichia coli Recombinant Strains. Tetrahedron Letters, 1997, 38, 6267-6270.	1.4	9
63	Synthetic Approach to Kdo Glycosides Via Exo-Glycal Epoxides and Rationalization of the Stereo Chemical Outcome. Journal of Carbohydrate Chemistry, 1998, 17, 1269-1281.	1.1	9
64	1,2-Dihydro-1,2-dihydroxynaphthalene dehydrogenase containing recombinant strains: Preparation, isolation and characterisation of 1,2-dihydroxynaphthalenes and 1,2-naphthoquinones. Tetrahedron, 1999, 55, 4467-4480.	1.9	9
65	Aldol Reactions of the trans-o-Hydroxybenzylidenepyruvate Hydratase-Aldolase (tHBP-HA) from Pseudomonas fluorescens N3. Applied Biochemistry and Biotechnology, 2013, 170, 1702-1712.	2.9	9
66	Ring perception in organic structures: A new algorithm for finding SSSR. Computers & Chemistry, 1991, 15, 293-299.	1.2	8
67	Microbial Oxidation of Naphthalene tocis-1,2-Dihydroxy-1,2-dihydronaphthalene in a Membrane Bioreactor. Journal of Chemical Technology and Biotechnology, 1996, 66, 375-381.	3.2	8
68	Development of biocatalysts carrying naphthalene dioxygenase and dihydrodiol dehydrogenase genes inducible in aerobic and anaerobic conditions. Research in Microbiology, 2000, 151, 383-391.	2.1	8
69	Formation of bound residues by naphthalene and cis-naphthalene-1,2-dihydrodiol. Chemosphere, 2004, 56, 853-860.	8.2	8
70	Erythronolide B: Analysis of the synthesis pathway proposed by the Lilith program. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 297-303.	0.0	7
71	Empirical atomic charges: a 3D approach. Computational and Theoretical Chemistry, 1995, 340, 15-28.	1.5	7
72	Classification of organic reactions using similarity. Tetrahedron, 1997, 53, 14085-14106.	1.9	7

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73	Quantitative aquatic toxicity prediction: using group contribution and classification methods on polar and non-polar narcotics. Computational and Theoretical Chemistry, 2005, 727, 71-80.	1.5	7
74	Insect pest control agents: Novel chiral butanoate esters (juvenogens). Bioorganic and Medicinal Chemistry, 2007, 15, 6037-6042.	3.0	7
75	From dioxin to dioxin congeners: understanding the differences in hydrophobic aggregation in water and absorption into lipid membranes by means of atomistic simulations. Physical Chemistry Chemical Physics, 2016, 18, 17731-17739.	2.8	7
76	Integrating computational methods to predict mutagenicity of aromatic azo compounds. Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews, 2017, 35, 239-257.	2.9	7
77	Reaction classification by similarity: the influence of steric congestion. Tetrahedron, 1998, 54, 5731-5744.	1.9	6
78	Predicting toxicity: a mechanism of action model of chemical mutagenicity. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2001, 479, 141-171.	1.0	6
79	Natural stilbenes and analogues as antineoplastic agents. Studies in Natural Products Chemistry, 2008, 34, 77-127.	1.8	6
80	Multienzymatic preparation of (â^')-[3-(oxiran-2-yl)phenyl]methanol and (â^')-3-(oxiran-2-yl)benzoic acid. Tetrahedron: Asymmetry, 2009, 20, 563-565.	1.8	6
81	Determination of Toxicant Mode of Action by Augmented Top Priority Fragment Class. Journal of Chemical Information and Modeling, 2013, 53, 1113-1126.	5.4	6
82	Organic synthesis planning: Some hints from similarity. Tetrahedron, 1997, 53, 3729-3756.	1.9	5
83	Novel auto-inducing expression systems for the development of whole-cell biocatalysts. Applied Microbiology and Biotechnology, 2008, 79, 617-25.	3.6	5
84	Identification of viable TCDD access pathways to human AhR PAS-B ligand binding domain. Journal of Molecular Graphics and Modelling, 2021, 105, 107886.	2.4	5
85	Geometric requirements for reactivity: the simulation of access to reaction centers and the influence of atomic deformation on it. Journal of Chemical Information and Computer Sciences, 1990, 30, 451-457.	2.8	4
86	Similar Group Interferences. A General Approach to the Location of Interfering Functionalities.. Tetrahedron, 1993, 49, 3367-3386.	1.9	4
87	Polyphenol Polymerization by an Alternative Oxidative Microbial Enzyme and Characterization of the Biological Activity of Oligomers. BioMed Research International, 2018, 2018, 1-10.	1.9	4
88	Reaction prediction by the beppe program. The Dielsâ€"Alder cycloaddition. Computational and Theoretical Chemistry, 1995, 340, 29-43.	1.5	3
89	Prediction of Organic Reaction Products:â€‰ Determining the Best Reaction Conditions. Journal of Chemical Information and Computer Sciences, 2000, 40, 221-235.	2.8	3
90	Alcohol and 1,2-Diol Dehydrogenases: Synthetic Use as Oxidants. Mini-Reviews in Organic Chemistry, 2006, 3, 11-21.	1.3	3

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91	Identification of Toxifying and Detoxifying Moieties for Mutagenicity Prediction by Priority Assessment. Journal of Chemical Information and Modeling, 2011, 51, 1564-1574.	5.4	3
92	Regulated expression systems for the development of whole-cell biocatalysts expressing oxidative enzymes in a sequential manner. Archives of Microbiology, 2013, 195, 269-278.	2.2	3
93	Automatic search for substructure similarity. Advances in Molecular Similarity, 1996, , 213-241.	0.5	3
94	Question of data format in organic chemistry. Journal of Chemical Information and Computer Sciences, 1984, 24, 249-254.	2.8	2
95	Analysis of a Theoretical Model Based on Similarity for Studying RNA Base Pairings. Journal of Theoretical Biology, 1996, 181, 359-371.	1.7	2
96	Reaction centre accessibility. I. Calculation of reaction centre congestion and influence of structure flexibility. Computers & Chemistry, 2000, 24, 635-644.	1.2	2
97	Reaction centre accessibility. II. Role of reaction centre congestion in the calculation of reaction centre accessibility. Computers & Chemistry, 2000, 24, 645-657.	1.2	2
98	Carcinogenicity prediction of noncongeneric chemicals by augmented top priority fragment classification. Computational Biology and Chemistry, 2016, 61, 145-154.	2.3	2
99	Estimate of Donor and Acceptor Sites Using Alternating Polarity Principle. Application to Pyridine Ring Construction. Journal of Chemical Information and Computer Sciences, 1995, 35, 1060-1067.	2.8	1
100	Analysis of the transferability of similarity calculations from substructures to complex compounds. Advances in Molecular Similarity, 1999, , 105-136.	0.5	1
101	Similarity in organic synthesis design. Advances in Molecular Similarity, 1999, , 137-151.	0.5	1
102	A Proposal Toward the Identification of Substructure Electronic Similarity. , 1995, , 267-289.		1
103	Automatic Estimation of Functional Groups Modification Along a Synthetic Path. Synlett, 1997, 1997, 498-500.	1.8	0
104	Bacterial Monooxygenase Mediated Preparation of Nonracemic Chiral Oxiranes: Study of the Effects of Substituent Nature and Position.. ChemInform, 2004, 35, no.	0.0	0
105	Alcohol and 1,2-Diol Dehydrogenases: Synthetic Use in the Preparation of Chiral Alcohols by Carbonyl Reduction. Mini-Reviews in Organic Chemistry, 2006, 3, 37-47.	1.3	0
106	Development of regulated systems for the expression of oxidoreductive enzymes from Pseudomonas and their use in sequential biotransformations. Journal of Biotechnology, 2010, 150, 403-403.	3.8	0
107	Modelling the transport mechanism of organic molecules into cell membranes: The role of organic solvents. Computational Biology and Chemistry, 2022, 98, 107663.	2.3	0