Franca Bigi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4892232/publications.pdf

Version: 2024-02-01

113 papers	4,492 citations	35 h-index	62 g-index
P. P. 02.0	523320220		S
163 all docs	163 docs citations	163 times ranked	4567 citing authors

#	Article	IF	CITATIONS
1	Synthetic recovery of impulse propagation in myocardial infarction via silicon carbide semiconductive nanowires. Nature Communications, 2022, 13, 6.	12.8	7
2	Immunomodulatory and Antitumoral Activity of Gold Nanoparticles Synthesized by Red Algae Aqueous Extracts. Marine Drugs, 2022, 20, 182.	4.6	10
3	Saccorhiza polyschides used to synthesize gold and silver nanoparticles with enhanced antiproliferative and immunostimulant activity. Materials Science and Engineering C, 2021, 123, 111960.	7.3	20
4	Is Aromaticity a Driving Force in Catalytic Cycles? A Case from the Cycloisomerization of Enynes Catalyzed by All-Metal Aromatic Pd ₃ ⁺ Clusters and Carboxylic Acids. Journal of Physical Chemistry A, 2021, 125, 10035-10043.	2.5	7
5	Synthesis of silver and gold nanoparticles by Sargassum muticum biomolecules and evaluation of their antioxidant activity and antibacterial properties. Journal of Nanostructure in Chemistry, 2020, 10, 317-330.	9.1	46
6	Immunostimulant and biocompatible gold and silver nanoparticles synthesized using the <i>Ulva intestinalis</i> L. aqueous extract. Journal of Materials Chemistry B, 2019, 7, 4677-4691.	5.8	37
7	Silica Nanoparticles Decorated with Polymeric Sulfonic Acids Trigger Selective Oxidation of Benzylic Methylenes to Aldehydic and Ketonic Carbonyls. ACS Sustainable Chemistry and Engineering, 2019, 7, 5886-5891.	6.7	13
8	Macroalgae to nanoparticles: Study of Ulva lactuca L. role in biosynthesis of gold and silver nanoparticles and of their cytotoxicity on colon cancer cell lines. Materials Science and Engineering C, 2019, 97, 498-509.	7.3	57
9	Alternative Routes to Tricyclic Cyclohexenes with Trinuclear Palladium Complexes. ACS Catalysis, 2018, 8, 144-147.	11.2	30
10	Semi-Reduction of Internal Alkynes with Prototypical Subnanometric Metal Surfaces: Bridging Homogeneous and Heterogeneous Catalysis with Trinuclear All-Metal Aromatics. ACS Sustainable Chemistry and Engineering, 2017, 5, 8205-8212.	6.7	37
11	Silica-supported sulfonic acids as recyclable catalyst for esterification of levulinic acid with stoichiometric amounts of alcohols. Beilstein Journal of Organic Chemistry, 2016, 12, 2173-2180.	2.2	27
12	Silicon Carbide-Based Nanowires for Biomedical Applications. , 2016, , 311-342.		3
13	Selective monomethyl esterification of linear dicarboxylic acids with bifunctional alumina catalysts. Green Chemistry, 2016, 18, 5764-5768.	9.0	8
14	Boosting catalyst activity in cis-selective semi-reduction of internal alkynes by tailoring the assembly of all-metal aromatic tri-palladium complexes. Dalton Transactions, 2016, 45, 15786-15790.	3.3	33
15	Catalytic Semireduction of Internal Alkynes with Allâ€Metal Aromatic Complexes. ChemCatChem, 2015, 7, 3266-3269.	3.7	30
16	A Simple Synthesis of Triangular Allâ€Metal Aromatics Allowing Access to Isolobal Allâ€Metal Heteroaromatics. Chemistry - A European Journal, 2015, 21, 12271-12274.	3.3	24
17	Cytocompatible SiC/SiOx nanowires for X-ray-excited photodynamic therapy., 2015,,.		О
18	Porphyrin conjugated SiC/SiOx nanowires for X-ray-excited photodynamic therapy. Scientific Reports, 2015, 5, 7606.	3.3	64

#	Article	IF	CITATIONS
19	Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. Nanoscale, 2015, 7, 7717-7725.	5.6	16
20	Cytocompatibility and Cellular Internalization Mechanisms of SiC/SiO ₂ Nanowires. Nano Letters, 2014, 14, 4368-4375.	9.1	44
21	Molybdenum-MCM-41 silica as heterogeneous catalyst for olefin epoxidation. Journal of Molecular Catalysis A, 2014, 386, 108-113.	4.8	21
22	The Knoevenagel Condensation in Water. Current Organic Synthesis, 2012, 9, 31-39.	1.3	37
23	Chiral ionic liquids for catalytic enantioselective sulfide oxidation. Comptes Rendus Chimie, 2011, 14, 685-687.	0.5	19
24	Oxidation of hydroquinones to benzoquinones with hydrogen peroxide using catalytic amount of silver oxide under batch and continuous-flow conditions. Journal of Catalysis, 2010, 271, 99-103.	6.2	41
25	A Rationale of the Baeyer–Villiger Oxidation of Cyclohexanone to ε aprolactone with Hydrogen Peroxide: Unprecedented Evidence for a Radical Mechanism Controlling Reactivity. Chemistry - A European Journal, 2010, 16, 12962-12969.	3.3	32
26	Selective oxidation of sulfides to sulfoxides and sulfones using 30% aqueous hydrogen peroxide and silica-vanadia catalyst. Journal of Molecular Catalysis A, 2008, 286, 124-127.	4.8	85
27	Selective photooxidation of diols with silica bound W10O324â^'. Journal of Catalysis, 2008, 253, 312-317.	6.2	45
28	Silica-bound decatungstates as heterogeneous catalysts for H2O2 activation in selective sulfide oxidation. Journal of Catalysis, 2007, 250, 222-230.	6.2	83
29	Protection (and Deprotection) of Functional Groups in Organic Synthesis by Heterogeneous Catalysis. ChemInform, 2004, 35, no.	0.0	0
30	Catalytic activity of aminopropyl xerogels in the selective synthesis of (E)-nitrostyrenes from nitroalkanes and aromatic aldehydes. Journal of Catalysis, 2004, 222, 410-418.	6.2	84
31	Protection (and Deprotection) of Functional Groups in Organic Synthesis by Heterogeneous Catalysis. Chemical Reviews, 2004, 104, 199-250.	47.7	403
32	Heterogenous catalysis in fine chemistry: the Heck reaction on Pd/SiO2 catalysts. Research on Chemical Intermediates, 2003, 29, 285-291.	2.7	5
33	$\hat{l}\pm$ -Fluorotropinone Immobilized on Silica: A New Stereoselective Heterogeneous Catalyst for Epoxidation of Alkenes with Oxone ChemInform, 2003, 34, no.	0.0	0
34	α-Fluorotropinone Immobilized on Silica: A New Stereoselective Heterogeneous Catalyst for Epoxidation of Alkenes with Oxone. Journal of Organic Chemistry, 2003, 68, 3232-3237.	3.2	57
35	Heterogeneous enantioselective epoxidation of olefins catalysed by unsymmetrical (salen)Mn(iii) complexes supported on amorphous or MCM-41 silica through a new triazine-based linkerElectronic supplementary information (ESI) available: synthesis of compounds 1, 3A, 3B, 4A, 4B and 1H NMR spectra. See http://www.rsc.org/suppdata/cc/b1/b110991i/. Chemical Communications. 2002 716-717.	4.1	86
36	HY zeolite-promoted electrophilic acylation of methoxyarenes with linear acid chlorides. Journal of Molecular Catalysis A, 2002, 178, 139-146.	4.8	20

#	Article	IF	CITATIONS
37	Homogeneous versus heterogeneous approach to the catalytic desymmetrisation of meso-anhydrides promoted by cinchona alkaloids. Journal of Molecular Catalysis A, 2002, 182-183, 533-539.	4.8	34
38	Immobilization of (n-Bu4N)4W10O32 on Mesoporous MCM-41 and Amorphous Silicas for Photocatalytic Oxidation of Cycloalkanes with Molecular Oxygen. Journal of Catalysis, 2002, 209, 210-216.	6.2	85
39	Montmorillonite KSF-catalysed regioselective trans-tert-butylation of tert-butylphenols. Tetrahedron Letters, 2001, 42, 6543-6545.	1.4	10
40	Supported organic catalysts: synthesis of (E)-nitrostyrenes from nitroalkanes and aromatic aldehydes over propylamine supported on MCM-41 silica as a reusable catalyst. Tetrahedron Letters, 2001, 42, 2401-2403.	1.4	104
41	Clean synthesis in water. Part 2: Uncatalysed condensation reaction of Meldrum's acid and aldehydes. Tetrahedron Letters, 2001, 42, 5203-5205.	1.4	136
42	Uncatalysed reactions in water: Part 2. Preparation of 3-carboxycoumarins. Green Chemistry, 2001, 3, 173-174.	9.0	69
43	Trialkylamine Controlled Phenol–Formaldehyde Reaction over Clay Catalysts: Selective and Environmentally Benign Synthesis of Salicylic Aldehydes. Tetrahedron, 2000, 56, 2709-2712.	1.9	29
44	Allylic oxidation of olefins in the presence of Cu-Na-HSZ-320 zeolite as reusable solid catalyst. Tetrahedron Letters, 2000, 41, 8947-8950.	1.4	20
45	Multicomponent reactions under clay catalysis. Catalysis Today, 2000, 60, 305-309.	4.4	64
46	Zeolite as Base Catalyst: Nitroaldolic Condensation. Journal of Catalysis, 2000, 191, 348-353.	6.2	39
47	Clean synthesis in water: uncatalysed preparation of ylidenemalononitriles. Green Chemistry, 2000, 2, 101-103.	9.0	127
48	Selected syntheses of ureas through phosgene substitutes. Green Chemistry, 2000, 2, 140-148.	9.0	218
49	A revision of the Biginelli reaction under solid acid catalysis. Solvent-free synthesis of dihydropyrimidines over montmorillonite KSF. Tetrahedron Letters, 1999, 40, 3465-3468.	1.4	280
50	Reaction of Aliphatic Amines with Acetoacetanilide in the Presence of Zeolite Catalyst. Solvent-Free Synthesis of SymmetricN,Nâ€⁻-Dialkylureas. Journal of Organic Chemistry, 1999, 64, 1004-1006.	3.2	28
51	Montmorillonite KSF as an Inorganic, Water Stable, and Reusable Catalyst for the Knoevenagel Synthesis of Coumarin-3-carboxylic Acids. Journal of Organic Chemistry, 1999, 64, 1033-1035.	3.2	328
52	Synthesis of SymmetricalN,Nâ€~-Disubstituted Thioureas and Heterocyclic Thiones from Amines and CS2over a ZnO/Al2O3Composite as Heterogeneous and Reusable Catalyst. Journal of Organic Chemistry, 1999, 64, 1029-1032.	3.2	85
53	Stereoselective Synthesis of Optically Active 2-Hydroxymandelic Acids and Esters via Friedelâ 'Crafts Coordinated Reaction: A Crystal Structure of Chiral Dichloro [2-(1-oxido-1-menthoxy-) Tj ETQq1 1 0.784314 rgBT (5004-5009).	/Oyerlock	10 ₃₁ f 50 102
54	Discrimination properties of tetraamidic branched selectors. Journal of Chromatography A, 1998, 802, 315-324.	3.7	4

#	Article	lF	CITATIONS
55	Reaction of aromatic amines and ethyl acetoacetate promoted by zeolite HSZ-360. Phosgene-free synthesis of symmetric diphenylureas. Chemical Communications, 1998, , 513-514.	4.1	31
56	Reaction between Phenols and Isoprene under Zeolite Catalysis. Highly Selective Synthesis of Chromans and o-Isopentenylphenols. Synthesis, 1998, 1998, 301-304.	2.3	27
57	Acidity effect in the regiochemical control of the alkylation of phenol with alkenes. Journal of the Chemical Society Perkin Transactions $1,1997,257-260.$	0.9	14
58	Highly selective conversion of hydroxylated biaryls to dibenzofuran derivatives over zeolite catalyst. Journal of the Chemical Society Perkin Transactions 1, 1997, , 1391-1394.	0.9	32
59	Zeolite-Induced Heterodomino Reaction. Regioselective Synthesis of 2H-1-Benzopyrans from Phenols and α-Alkynols. Journal of Organic Chemistry, 1997, 62, 7024-7027.	3.2	57
60	Calixarenes with exo-hydroxy groups: Synthesis, crystal and molecular structure of ortho-tert-butylphenol-based calix[4]-, calix[6]- and calix[8]arenes. Tetrahedron, 1997, 53, 3287-3300.	1.9	12
61	Regioselective electrophilic alkylation of anilines with phenylacetylene in the presence of montmorillonite KSF. Tetrahedron, 1997, 53, 3795-3804.	1.9	44
62	Stepwise synthesis and structural characterization of calix[4]- and calix[5] arenes bearing a functionalized arm on the methylene bridge. Tetrahedron, 1997, 53, 13037-13052.	1.9	38
63	Solvent free tetrahydropyranylation of phenols and alcohols over zeolites HSZ as reusable catalysts. Tetrahedron Letters, 1997, 38, 4169-4172.	1.4	59
64	Metalâ€Template Electrophilic Substitution on Phenols: Synthesis and Crystal Structure of Bromomagnesium Phenolate and Its Reactive Complex with ⟨i>para⟨/i>â€Isopropylbenzaldehyde. Chemistry - A European Journal, 1997, 3, 1269-1272.	3.3	8
65	Aluminium chloride \hat{A} -2-isocyanatobenzoyl chloride complex: crystal structure and reactivity. Journal of the Chemical Society Perkin Transactions 1, 1996, , 1815-1818.	0.9	2
66	Dehydration-hydration of \hat{l}_{\pm} -alkynols over zeolite catalyst. Selective synthesis of conjugated enynes and \hat{l}_{\pm},\hat{l}^2 -unsaturated ketones. Tetrahedron, 1996, 52, 8287-8296.	1.9	22
67	tert-Butyl 2-[(Hydroxy)(5-hydroxy-1,3-benzodioxol-6-yl)methyl]pyrrolidine-1-carboxylate. Acta Crystallographica Section C: Crystal Structure Communications, 1995, 51, 993-995.	0.4	0
68	Chiral separation of unmodified \hat{l}_{\pm} -hydroxy acids by ligand exchange HPLC using chiral copper(II) complexes of (S)-phenylalaninamide as additives to the eluent. Chirality, 1995, 7, 331-336.	2.6	27
69	Selective synthesis of 1-indanones via tandem knoevenagel condensation-cycloalkylation of \hat{l}^2 -dicarbonyl compounds and aldehydes. Tetrahedron, 1995, 51, 12179-12192.	1.9	18
70	Synthesis of a new ortho-tert-butylphenol-based calix[4] arene. Tetrahedron Letters, 1995, 36, 2311-2314.	1.4	14
71	Solvent effect in the "fragment condensation―synthesis of calix[4]arenes and temperature dependent 1H-NMR studies of new dihomomonoxacalixarenes. Tetrahedron Letters, 1995, 36, 8323-8326.	1.4	3
72	Electrophilic alkenylation of aromatics with phenylacetylene over zeolite HSZ-360. Tetrahedron Letters, 1995, 36, 9177-9180.	1.4	50

#	Article	lF	CITATIONS
73	An Investigation of the Reaction Mechanism of the Bis-acylation of Aromatics with o-Phthaloyl Dichlorides: Regioselective Synthesis of Anthraquinones. Journal of Organic Chemistry, 1995, 60, 6588-6591.	3.2	28
74	Selective synthesis of unsymmetrical 2,2 \hat{a} e-dihydroxylated biaryls via electrophilic arylation of metal phenolates with p-benzoquinone monoketals. Journal of the Chemical Society Perkin Transactions 1, 1995, , 2177-2181.	0.9	17
75	Reaction of nitromethane with aluminium phenolates: Mild synthesis of salicylaldoximes. Tetrahedron Letters, 1994, 35, 2393-2396.	1.4	17
76	Metal-template ortho-regioselective mono- and bis-de-tert-butylation of poly-tert-butylated phenols. Tetrahedron Letters, 1994, 35, 7073-7076.	1.4	15
77	Metal-template ortho-regioselective synthesis of 2′-hydroxyphenylpyridinemethanols. Tetrahedron, 1994, 50, 10587-10596.	1.9	18
78	Chemoselectivity in the reaction of metal phenolates with aromatic dialdehydes. Journal of the Chemical Society Perkin Transactions 1, 1994, , 1879.	0.9	7
79	Acid-catalysed synthesis of a new class of calix[4]arenes. Journal of the Chemical Society Perkin Transactions 1, 1994, , 1657.	0.9	36
80	A Stepwise Synthesis of Hydroxylated Polyaryls. Journal of Organic Chemistry, 1994, 59, 3701-3703.	3.2	11
81	Synthesis of optically active 4-hydroxymandelic acid and derivatives via Regio- and Stereoselective Friedel-Crafts alkylation Tetrahedron: Asymmetry, 1993, 4, 2411-2414.	1.8	16
82	Friedel-Crafts coordinated processes: highly selective synthesis of hydroxynaphthoquinones. Journal of Organic Chemistry, 1993, 58, 840-843.	3.2	30
83	Dalton communications. Organic nitro compounds as ligands. A comparison between the ligand behaviour of MeNO2 and PhNO2 towards AlCl3. Journal of the Chemical Society Dalton Transactions, 1993, , 1463.	1.1	17
84	Reinvestigation of the Pummerer arylation of quinones: a selective approach to $2,2\hat{a}\in^2$, $5\hat{a}\in^2$ -trihydroxybiaryls. Journal of the Chemical Society Perkin Transactions 1, 1993, , 39-42.	0.9	7
85	Selective synthesis of unsymmetrical hydroxylated and methoxylated biaryls. Journal of Organic Chemistry, 1993, 58, 7271-7273.	3.2	32
86	New Direct Synthesis of Persubstituted 4-Hydroxy-2-pyrones. Synthesis, 1993, 1993, 851-852.	2.3	10
87	Acylation of aroyl chlorides via a template Friedel–Crafts process: synthesis of indan-1,3-diones. Journal of the Chemical Society Perkin Transactions 1, 1992, , 2985-2988.	0.9	18
88	Oxidative coupling of dichloroaluminium phenolates: Highly selective synthesis of hydroxylated Biand tetraaryls. Tetrahedron, 1992, 48, 9483-9494.	1.9	46
89	Friedel-crafts coordinated processes: Highly selective synthesis of ethyl-1-oxo-2-indancarboxylates and 1-oxo-2-acetylindanes. Tetrahedron Letters, 1992, 33, 4771-4774.	1.4	14
90	X-ray structural investigation of 1,3,6,8-tetramethyl-10-(4-m.xilenyl-2,6-pyridyl diketone) anthracene. Journal of Crystallographic and Spectroscopic Research, 1992, 22, 691-694.	0.2	0

#	Article	IF	Citations
91	Regiochemical control in the oxidative coupling of metal phenolates: Highly selective synthesis of symmetric, hydroxylated biaryls. Tetrahedron Letters, 1992, 33, 2207-2210.	1.4	20
92	Acylating Friedel–Crafts complexes: multinuclear NMR data and chemical reactivity. Journal of the Chemical Society Perkin Transactions II, 1991, , 1319-1321.	0.9	9
93	ortho-Regioselective arylation of phenols: new general synthesis of ortho-hydroxyarylhydroquinone bis(methyl ethers). Journal of the Chemical Society Perkin Transactions 1, 1991, , 3059.	0.9	6
94	Friedel-crafts coordinated processes: Selective cyclooligomerization of acyl chlorides. Tetrahedron Letters, 1991, 32, 2153-2156.	1.4	9
95	Highly regio- and diastereoselective Friedel-Crafts alkylation of phenols. Synthesis of 2-hydroxymandelic esters Tetrahedron: Asymmetry, 1990, 1, 861-864.	1.8	37
96	Ortho-coordinated acylation of phenol systems. Journal of Organic Chemistry, 1990, 55, 4371-4377.	3.2	49
97	Highly regio- and diastereoselective friedel-crafts alkylation of phenols with α-amino aldehydes. Synthesis of optically active ephedrine-like compounds. Tetrahedron Letters, 1989, 30, 1121-1124.	1.4	29
98	Asymmetric electrophilic substitution on phenols. 2. Enantio- and diastereoselective synthesis of o-hydroxyatrolactic esters. Journal of Organic Chemistry, 1988, 53, 1779-1785.	3.2	37
99	Metal Templateortho-Acylation of Phenols. Direct Synthesis of Salicylic Acid Chlorides and Derivatives. Synthesis, 1988, 1988, 763-766.	2.3	11
100	Metal template ortho-acylation of phenols; A new general approach to anthracyclinones. Tetrahedron Letters, 1987, 28, 1533-1536.	1.4	29
101	Highly stereocontrolled substitution of phenols with pyruvic esters. A viable route to -hydroxyatrolactic esters of (2R)- and (2S)-configuration. Tetrahedron Letters, 1985, 26, 2021-2024.	1.4	8
102	Asymmetric electrophilic substitution on phenols. Enantioselective ortho-hydroxyalkylation mediated by chiral alkoxyaluminum chlorides. Journal of Organic Chemistry, 1985, 50, 5018-5022.	3.2	67
103	Unusual Friedel-Crafts reactions, IX. One-step ortho-acylation of phenols with $\hat{l}\pm,\hat{l}^2$ -unsaturated acyl chlorides. Synthesis of 2'-hydroxychalcones and sorbicillin analogues. Tetrahedron, 1984, 40, 4081-4084.	1.9	20
104	Unusual Friedel-Crafts reactions. Part 8. Synthesis of 2-hydroxyarylglyoxylic acids via ortho-specific oxaloylation of phenols with oxalyl chloride. Journal of the Chemical Society Perkin Transactions 1, 1984, , 2655.	0.9	16
105	Unusual friedel-crafts reactions—vi. Tetrahedron, 1983, 39, 1761-1764.	1.9	9
106	A new entry to (E)-[3,3'] bibenzofuranylidene-2,2″-diones (isoxindigos). Tetrahedron, 1983, 39, 2147-2150.	1.9	5
107	Modification of the nickl reaction. Tetrahedron, 1983, 39, 169-174.	1.9	18
108	Enantioselective ortho-hydroxyalkylation of phenols promoted by chiral alkoxyaluminium chlorides. Journal of the Chemical Society Chemical Communications, 1983, , 1210.	2.0	11

#	Article	IF	CITATION
109	Unusual Friedel–Crafts reactions. Part 7. Synthesis of α-(2-hydroxyphenyl)ethyl lactates and their reductive cyclization to 3-methyl-2,3-dihydrobenzofuran-2-ols. Journal of the Chemical Society Perkin Transactions 1, 1983, , 1649-1651.	0.9	19
110	Unusual Friedel-Crafts Reactions; 51. Synthesis of Salicylanilides viaortho-Aminocarbonylation of Phenols with Phenyl Isocyanate. Synthesis, 1982, 1982, 879-881.	2.3	9
111	Unusual friedelâ€erafts reactions. 3 . Synthesis of 2,4â€Diethoxychromans and their conversion into benzopyrylium perchlorates. Journal of Heterocyclic Chemistry, 1981, 18, 1325-1328.	2.6	15
112	Unusual Friedel-Crafts Reactions; 41. Synthesis of 2,4-Diphenyl-2-methyl-1,2-dihydroquinolines from Anilines and Phenylacetylene. Synthesis, 1981, 1981, 975-977.	2.3	17
113	Unusual Friedel-Crafts Reactions; I. Exclusiveortho-Allylation of Phenols. Synthesis, 1981, 1981, 310-312.	2.3	22