

Franca Bigi

List of Publications by Year in descending order

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113
papers

4,492
citations

109321

35
h-index

118850

62
g-index

163
all docs

163
docs citations

163
times ranked

4567
citing authors

#	ARTICLE	IF	CITATIONS
1	Protection (and Deprotection) of Functional Groups in Organic Synthesis by Heterogeneous Catalysis. <i>Chemical Reviews</i> , 2004, 104, 199-250.	47.7	403
2	Montmorillonite KSF as an Inorganic, Water Stable, and Reusable Catalyst for the Knoevenagel Synthesis of Coumarin-3-carboxylic Acids. <i>Journal of Organic Chemistry</i> , 1999, 64, 1033-1035.	3.2	328
3	A revision of the Biginelli reaction under solid acid catalysis. Solvent-free synthesis of dihydropyrimidines over montmorillonite KSF. <i>Tetrahedron Letters</i> , 1999, 40, 3465-3468.	1.4	280
4	Selected syntheses of ureas through phosgene substitutes. <i>Green Chemistry</i> , 2000, 2, 140-148.	9.0	218
5	Clean synthesis in water. Part 2: Uncatalysed condensation reaction of Meldrum's acid and aldehydes. <i>Tetrahedron Letters</i> , 2001, 42, 5203-5205.	1.4	136
6	Clean synthesis in water: uncatalysed preparation of ylidenemalononitriles. <i>Green Chemistry</i> , 2000, 2, 101-103.	9.0	127
7	Supported organic catalysts: synthesis of (E)-nitrostyrenes from nitroalkanes and aromatic aldehydes over propylamine supported on MCM-41 silica as a reusable catalyst. <i>Tetrahedron Letters</i> , 2001, 42, 2401-2403.	1.4	104
8	Heterogeneous enantioselective epoxidation of olefins catalysed by unsymmetrical (salen)Mn(III) complexes supported on amorphous or MCM-41 silica through a new triazine-based linker. Electronic supplementary information (ESI) available: synthesis of compounds 1, 3A, 3B, 4A, 4B and 1H NMR spectra. See http://www.rsc.org/suppdata/cc/b1/b110991j/ . <i>Chemical Communications</i> , 2002, , 716-717.	4.1	86
9	Synthesis of Symmetrical N,N'-Disubstituted Thioureas and Heterocyclic Thiones from Amines and CS ₂ over a ZnO/Al ₂ O ₃ Composite as Heterogeneous and Reusable Catalyst. <i>Journal of Organic Chemistry</i> , 1999, 64, 1029-1032.	3.2	85
10	Immobilization of (n-Bu ₄ N) ⁺ W ₁₀ O ₃₂ on Mesoporous MCM-41 and Amorphous Silicas for Photocatalytic Oxidation of Cycloalkanes with Molecular Oxygen. <i>Journal of Catalysis</i> , 2002, 209, 210-216.	6.2	85
11	Selective oxidation of sulfides to sulfoxides and sulfones using 30% aqueous hydrogen peroxide and silica-vanadia catalyst. <i>Journal of Molecular Catalysis A</i> , 2008, 286, 124-127.	4.8	85
12	Catalytic activity of aminopropyl xerogels in the selective synthesis of (E)-nitrostyrenes from nitroalkanes and aromatic aldehydes. <i>Journal of Catalysis</i> , 2004, 222, 410-418.	6.2	84
13	Silica-bound decatungstates as heterogeneous catalysts for H ₂ O ₂ activation in selective sulfide oxidation. <i>Journal of Catalysis</i> , 2007, 250, 222-230.	6.2	83
14	Uncatalysed reactions in water: Part 2. Preparation of 3-carboxycoumarins. <i>Green Chemistry</i> , 2001, 3, 173-174.	9.0	69
15	Asymmetric electrophilic substitution on phenols. Enantioselective ortho-hydroxyalkylation mediated by chiral alkoxyaluminum chlorides. <i>Journal of Organic Chemistry</i> , 1985, 50, 5018-5022.	3.2	67
16	Multicomponent reactions under clay catalysis. <i>Catalysis Today</i> , 2000, 60, 305-309.	4.4	64
17	Porphyrin conjugated SiC/SiO _x nanowires for X-ray-excited photodynamic therapy. <i>Scientific Reports</i> , 2015, 5, 7606.	3.3	64
18	Solvent free tetrahydropyranlation of phenols and alcohols over zeolites HSZ as reusable catalysts. <i>Tetrahedron Letters</i> , 1997, 38, 4169-4172.	1.4	59

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19	Zeolite-Induced Heterodominio Reaction. Regioselective Synthesis of 2H-1-Benzopyrans from Phenols and β -Alkynols. <i>Journal of Organic Chemistry</i> , 1997, 62, 7024-7027.	3.2	57
20	β -Fluorotropinone Immobilized on Silica: A New Stereoselective Heterogeneous Catalyst for Epoxidation of Alkenes with Oxone. <i>Journal of Organic Chemistry</i> , 2003, 68, 3232-3237.	3.2	57
21	Macroalgae to nanoparticles: Study of <i>Ulva lactuca</i> L. role in biosynthesis of gold and silver nanoparticles and of their cytotoxicity on colon cancer cell lines. <i>Materials Science and Engineering C</i> , 2019, 97, 498-509.	7.3	57
22	Electrophilic alkenylation of aromatics with phenylacetylene over zeolite HSZ-360. <i>Tetrahedron Letters</i> , 1995, 36, 9177-9180.	1.4	50
23	Ortho-coordinated acylation of phenol systems. <i>Journal of Organic Chemistry</i> , 1990, 55, 4371-4377.	3.2	49
24	Oxidative coupling of dichloroaluminium phenolates: Highly selective synthesis of hydroxylated Bi- and tetraaryls. <i>Tetrahedron</i> , 1992, 48, 9483-9494.	1.9	46
25	Synthesis of silver and gold nanoparticles by <i>Sargassum muticum</i> biomolecules and evaluation of their antioxidant activity and antibacterial properties. <i>Journal of Nanostructure in Chemistry</i> , 2020, 10, 317-330.	9.1	46
26	Selective photooxidation of diols with silica bound W10O32 \cdot . <i>Journal of Catalysis</i> , 2008, 253, 312-317.	6.2	45
27	Regioselective electrophilic alkylation of anilines with phenylacetylene in the presence of montmorillonite KSF. <i>Tetrahedron</i> , 1997, 53, 3795-3804.	1.9	44
28	Cytocompatibility and Cellular Internalization Mechanisms of SiC/SiO ₂ Nanowires. <i>Nano Letters</i> , 2014, 14, 4368-4375.	9.1	44
29	Oxidation of hydroquinones to benzoquinones with hydrogen peroxide using catalytic amount of silver oxide under batch and continuous-flow conditions. <i>Journal of Catalysis</i> , 2010, 271, 99-103.	6.2	41
30	Zeolite as Base Catalyst: Nitroaldolic Condensation. <i>Journal of Catalysis</i> , 2000, 191, 348-353.	6.2	39
31	Stepwise synthesis and structural characterization of calix[4]- and calix[5]arenes bearing a functionalized arm on the methylene bridge. <i>Tetrahedron</i> , 1997, 53, 13037-13052.	1.9	38
32	Asymmetric electrophilic substitution on phenols. 2. Enantio- and diastereoselective synthesis of o-hydroxyatrolactic esters. <i>Journal of Organic Chemistry</i> , 1988, 53, 1779-1785.	3.2	37
33	Highly regio- and diastereoselective Friedel-Crafts alkylation of phenols. Synthesis of 2-hydroxymandelic esters. <i>Tetrahedron: Asymmetry</i> , 1990, 1, 861-864.	1.8	37
34	The Knoevenagel Condensation in Water. <i>Current Organic Synthesis</i> , 2012, 9, 31-39.	1.3	37
35	Semi-Reduction of Internal Alkynes with Prototypical Subnanometric Metal Surfaces: Bridging Homogeneous and Heterogeneous Catalysis with Trinuclear All-Metal Aromatics. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8205-8212.	6.7	37
36	Immunostimulant and biocompatible gold and silver nanoparticles synthesized using the <i>Ulva intestinalis</i> L. aqueous extract. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4677-4691.	5.8	37

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37	Acid-catalysed synthesis of a new class of calix[4]arenes. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 1657.	0.9	36
38	Homogeneous versus heterogeneous approach to the catalytic desymmetrisation of meso-anhydrides promoted by cinchona alkaloids. <i>Journal of Molecular Catalysis A</i> , 2002, 182-183, 533-539.	4.8	34
39	Boosting catalyst activity in cis-selective semi-reduction of internal alkynes by tailoring the assembly of all-metal aromatic tri-palladium complexes. <i>Dalton Transactions</i> , 2016, 45, 15786-15790.	3.3	33
40	Selective synthesis of unsymmetrical hydroxylated and methoxylated biaryls. <i>Journal of Organic Chemistry</i> , 1993, 58, 7271-7273.	3.2	32
41	Highly selective conversion of hydroxylated biaryls to dibenzofuran derivatives over zeolite catalyst. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 1391-1394.	0.9	32
42	A Rationale of the Baeyer-Villiger Oxidation of Cyclohexanone to ϵ -Caprolactone with Hydrogen Peroxide: Unprecedented Evidence for a Radical Mechanism Controlling Reactivity. <i>Chemistry - A European Journal</i> , 2010, 16, 12962-12969.	3.3	32
43	Reaction of aromatic amines and ethyl acetoacetate promoted by zeolite HSZ-360. Phosgene-free synthesis of symmetric diphenylureas. <i>Chemical Communications</i> , 1998, , 513-514.	4.1	31
44	Stereoselective Synthesis of Optically Active 2-Hydroxymandelic Acids and Esters via Friedel-Crafts Coordinated Reaction: A Crystal Structure of Chiral Dichloro[2-(1-oxido-1-menthoxy-)] ₂ IrCl ₂ (carb) 5004-5009.	3.2	31
45	Friedel-Crafts coordinated processes: highly selective synthesis of hydroxynaphthoquinones. <i>Journal of Organic Chemistry</i> , 1993, 58, 840-843.	3.2	30
46	Catalytic Semireduction of Internal Alkynes with All-Metal Aromatic Complexes. <i>ChemCatChem</i> , 2015, 7, 3266-3269.	3.7	30
47	Alternative Routes to Tricyclic Cyclohexenes with Trinuclear Palladium Complexes. <i>ACS Catalysis</i> , 2018, 8, 144-147.	11.2	30
48	Metal template ortho-acylation of phenols; A new general approach to anthracyclonones. <i>Tetrahedron Letters</i> , 1987, 28, 1533-1536.	1.4	29
49	Highly regio- and diastereoselective friedel-crafts alkylation of phenols with α -amino aldehydes. Synthesis of optically active ephedrine-like compounds. <i>Tetrahedron Letters</i> , 1989, 30, 1121-1124.	1.4	29
50	Trialkylamine Controlled Phenol-Formaldehyde Reaction over Clay Catalysts: Selective and Environmentally Benign Synthesis of Salicylic Aldehydes. <i>Tetrahedron</i> , 2000, 56, 2709-2712.	1.9	29
51	An Investigation of the Reaction Mechanism of the Bis-acylation of Aromatics with o-Phthaloyl Dichlorides: Regioselective Synthesis of Anthraquinones. <i>Journal of Organic Chemistry</i> , 1995, 60, 6588-6591.	3.2	28
52	Reaction of Aliphatic Amines with Acetoacetanilide in the Presence of Zeolite Catalyst. Solvent-Free Synthesis of Symmetric N,N-Dialkylureas. <i>Journal of Organic Chemistry</i> , 1999, 64, 1004-1006.	3.2	28
53	Chiral separation of unmodified α -hydroxy acids by ligand exchange HPLC using chiral copper(II) complexes of (S)-phenylalaninamide as additives to the eluent. <i>Chirality</i> , 1995, 7, 331-336.	2.6	27
54	Reaction between Phenols and Isoprene under Zeolite Catalysis. Highly Selective Synthesis of Chromans and o-Isopentenylphenols. <i>Synthesis</i> , 1998, 1998, 301-304.	2.3	27

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55	Silica-supported sulfonic acids as recyclable catalyst for esterification of levulinic acid with stoichiometric amounts of alcohols. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2173-2180.	2.2	27
56	A Simple Synthesis of Triangular All-Metal Aromatics Allowing Access to Isolobal All-Metal Heteroaromatics. <i>Chemistry - A European Journal</i> , 2015, 21, 12271-12274.	3.3	24
57	Unusual Friedel-Crafts Reactions; I. Exclusive ortho-Allylation of Phenols. <i>Synthesis</i> , 1981, 1981, 310-312.	2.3	22
58	Dehydration-hydration of α -alkynols over zeolite catalyst. Selective synthesis of conjugated enynes and α,β -unsaturated ketones. <i>Tetrahedron</i> , 1996, 52, 8287-8296.	1.9	22
59	Molybdenum-MCM-41 silica as heterogeneous catalyst for olefin epoxidation. <i>Journal of Molecular Catalysis A</i> , 2014, 386, 108-113.	4.8	21
60	Unusual Friedel-Crafts reactions, IX. One-step ortho-acylation of phenols with α,β -unsaturated acyl chlorides. Synthesis of 2'-hydroxychalcones and sorbicillin analogues. <i>Tetrahedron</i> , 1984, 40, 4081-4084.	1.9	20
61	Regiochemical control in the oxidative coupling of metal phenolates: Highly selective synthesis of symmetric, hydroxylated biaryls. <i>Tetrahedron Letters</i> , 1992, 33, 2207-2210.	1.4	20
62	Allylic oxidation of olefins in the presence of Cu-Na-HSZ-320 zeolite as reusable solid catalyst. <i>Tetrahedron Letters</i> , 2000, 41, 8947-8950.	1.4	20
63	HY zeolite-promoted electrophilic acylation of methoxyarenes with linear acid chlorides. <i>Journal of Molecular Catalysis A</i> , 2002, 178, 139-146.	4.8	20
64	Saccorhiza polyschides used to synthesize gold and silver nanoparticles with enhanced antiproliferative and immunostimulant activity. <i>Materials Science and Engineering C</i> , 2021, 123, 111960.	7.3	20
65	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. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1983, , 1649-1651.	0.9	19
66	Chiral ionic liquids for catalytic enantioselective sulfide oxidation. <i>Comptes Rendus Chimie</i> , 2011, 14, 685-687.	0.5	19
67	Modification of the nickel reaction. <i>Tetrahedron</i> , 1983, 39, 169-174.	1.9	18
68	Acylation of aryl chlorides via a template Friedel-Crafts process: synthesis of indan-1,3-diones. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1992, , 2985-2988.	0.9	18
69	Metal-template ortho-regioselective synthesis of 2-hydroxyphenylpyridinemethanols. <i>Tetrahedron</i> , 1994, 50, 10587-10596.	1.9	18
70	Selective synthesis of 1-indanones via tandem Knoevenagel condensation-cycloalkylation of α,β -dicarbonyl compounds and aldehydes. <i>Tetrahedron</i> , 1995, 51, 12179-12192.	1.9	18
71	Unusual Friedel-Crafts Reactions; 41. Synthesis of 2,4-Diphenyl-2-methyl-1,2-dihydroquinolines from Anilines and Phenylacetylene. <i>Synthesis</i> , 1981, 1981, 975-977.	2.3	17
72	Dalton communications. Organic nitro compounds as ligands. A comparison between the ligand behaviour of MeNO ₂ and PhNO ₂ towards AlCl ₃ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 1463.	1.1	17

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73	Reaction of nitromethane with aluminium phenolates: Mild synthesis of salicylaldoximes. <i>Tetrahedron Letters</i> , 1994, 35, 2393-2396.	1.4	17
74	Selective synthesis of unsymmetrical 2,2-dihydroxylated biaryls via electrophilic arylation of metal phenolates with p-benzoquinone monoketals. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995, , 2177-2181.	0.9	17
75	Unusual Friedel-Crafts reactions. Part 8. Synthesis of 2-hydroxyarylglyoxylic acids via ortho-specific oxaloylation of phenols with oxalyl chloride. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1984, , 2655.	0.9	16
76	Synthesis of optically active 4-hydroxymandelic acid and derivatives via Regio- and Stereoselective Friedel-Crafts alkylation.. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 2411-2414.	1.8	16
77	Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. <i>Nanoscale</i> , 2015, 7, 7717-7725.	5.6	16
78	Unusual friedel-crafts reactions. 3. Synthesis of 2,4-diethoxychromans and their conversion into benzopyrylium perchlorates. <i>Journal of Heterocyclic Chemistry</i> , 1981, 18, 1325-1328.	2.6	15
79	Metal-template ortho-regioselective mono- and bis-de-tert-butylation of poly-tert-butylated phenols. <i>Tetrahedron Letters</i> , 1994, 35, 7073-7076.	1.4	15
80	Friedel-crafts coordinated processes: Highly selective synthesis of ethyl-1-oxo-2-indancarboxylates and 1-oxo-2-acetylindanes. <i>Tetrahedron Letters</i> , 1992, 33, 4771-4774.	1.4	14
81	Synthesis of a new ortho-tert-butylphenol-based calix[4]arene. <i>Tetrahedron Letters</i> , 1995, 36, 2311-2314.	1.4	14
82	Acidity effect in the regiochemical control of the alkylation of phenol with alkenes. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 257-260.	0.9	14
83	Silica Nanoparticles Decorated with Polymeric Sulfonic Acids Trigger Selective Oxidation of Benzylic Methylenes to Aldehydic and Ketonic Carbonyls. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5886-5891.	6.7	13
84	Calixarenes with exo-hydroxy groups: Synthesis, crystal and molecular structure of ortho-tert-butylphenol-based calix[4]-, calix[6]- and calix[8]arenes. <i>Tetrahedron</i> , 1997, 53, 3287-3300.	1.9	12
85	Enantioselective ortho-hydroxyalkylation of phenols promoted by chiral alkoxyaluminium chlorides. <i>Journal of the Chemical Society Chemical Communications</i> , 1983, , 1210.	2.0	11
86	Metal Templateortho-Acylation of Phenols. Direct Synthesis of Salicylic Acid Chlorides and Derivatives. <i>Synthesis</i> , 1988, 1988, 763-766.	2.3	11
87	A Stepwise Synthesis of Hydroxylated Polyaryls. <i>Journal of Organic Chemistry</i> , 1994, 59, 3701-3703.	3.2	11
88	New Direct Synthesis of Persubstituted 4-Hydroxy-2-pyrones. <i>Synthesis</i> , 1993, 1993, 851-852.	2.3	10
89	Montmorillonite KSF-catalysed regioselective trans-tert-butylation of tert-butylphenols. <i>Tetrahedron Letters</i> , 2001, 42, 6543-6545.	1.4	10
90	Immunomodulatory and Antitumoral Activity of Gold Nanoparticles Synthesized by Red Algae Aqueous Extracts. <i>Marine Drugs</i> , 2022, 20, 182.	4.6	10

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91	Unusual Friedel-Crafts Reactions; 51. Synthesis of Salicylanilides via ortho-Aminocarbonylation of Phenols with Phenyl Isocyanate. <i>Synthesis</i> , 1982, 1982, 879-881.	2.3	9
92	Unusual Friedel-Crafts reactions. <i>Tetrahedron</i> , 1983, 39, 1761-1764.	1.9	9
93	Acylation of Friedel-Crafts complexes: multinuclear NMR data and chemical reactivity. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1991, , 1319-1321.	0.9	9
94	Friedel-Crafts coordinated processes: Selective cyclooligomerization of acyl chlorides. <i>Tetrahedron Letters</i> , 1991, 32, 2153-2156.	1.4	9
95	Highly stereocontrolled substitution of phenols with pyruvic esters. A viable route to α -hydroxy lactonic esters of (2R)- and (2S)-configuration. <i>Tetrahedron Letters</i> , 1985, 26, 2021-2024.	1.4	8
96	Metal-Template Electrophilic Substitution on Phenols: Synthesis and Crystal Structure of Bromomagnesium Phenolate and Its Reactive Complex with <i>para</i> -isopropylbenzaldehyde. <i>Chemistry - A European Journal</i> , 1997, 3, 1269-1272.	3.3	8
97	Selective monomethyl esterification of linear dicarboxylic acids with bifunctional alumina catalysts. <i>Green Chemistry</i> , 2016, 18, 5764-5768.	9.0	8
98	Reinvestigation of the Pummerer arylation of quinones: a selective approach to 2,2,5-trihydroxybiaryls. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1993, , 39-42.	0.9	7
99	Chemoselectivity in the reaction of metal phenolates with aromatic dialdehydes. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 1879.	0.9	7
100	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. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10035-10043.	2.5	7
101	Synthetic recovery of impulse propagation in myocardial infarction via silicon carbide semiconductive nanowires. <i>Nature Communications</i> , 2022, 13, 6.	12.8	7
102	ortho-Regioselective arylation of phenols: new general synthesis of ortho-hydroxyarylhydroquinone bis(methyl ethers). <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991, , 3059.	0.9	6
103	A new entry to (E)-[3,3'] bibenzofuranylidene-2,2'-diones (isoxindigos). <i>Tetrahedron</i> , 1983, 39, 2147-2150.	1.9	5
104	Heterogeneous catalysis in fine chemistry: the Heck reaction on Pd/SiO ₂ catalysts. <i>Research on Chemical Intermediates</i> , 2003, 29, 285-291.	2.7	5
105	Discrimination properties of tetraamidic branched selectors. <i>Journal of Chromatography A</i> , 1998, 802, 315-324.	3.7	4
106	Solvent effect in the α -fragment condensation synthesis of calix[4]arenes and temperature dependent ¹ H-NMR studies of new dihomomonoaxalixarenes. <i>Tetrahedron Letters</i> , 1995, 36, 8323-8326.	1.4	3
107	Silicon Carbide-Based Nanowires for Biomedical Applications. , 2016, , 311-342.		3
108	Aluminium chloride-2-isocyanatobenzoyl chloride complex: crystal structure and reactivity. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996, , 1815-1818.	0.9	2

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109	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
110	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
111	Î±-Fluorotropinone Immobilized on Silica: A New Stereoselective Heterogeneous Catalyst for Epoxidation of Alkenes with Oxone.. ChemInform, 2003, 34, no.	0.0	0
112	Protection (and Deprotection) of Functional Groups in Organic Synthesis by Heterogeneous Catalysis. ChemInform, 2004, 35, no.	0.0	0
113	Cytocompatible SiC/SiOx nanowires for X-ray-excited photodynamic therapy. , 2015, , .		0