

Radha V Jayaram

List of Publications by Year in descending order

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57
papers

2,130
citations

236925

25
h-index

223800

46
g-index

61
all docs

61
docs citations

61
times ranked

2879
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of mixed metal oxides in catalysis science—versatile applications in organic synthesis. <i>Catalysis Science and Technology</i> , 2012, 2, 1113.	4.1	341
2	Regio- and Chemoselective Reduction of Nitroarenes and Carbonyl Compounds over Recyclable Magnetic Ferrite γ -Ni Nanoparticles (Fe ₃ O ₄ /Ni) by Using Glycerol as a Hydrogen Source. <i>Chemistry - A European Journal</i> , 2012, 18, 12628-12632.	3.3	175
3	Synthesis and characterization of versatile MgO—ZrO ₂ mixed metal oxide nanoparticles and their applications. <i>Catalysis Science and Technology</i> , 2011, 1, 1653.	4.1	133
4	A novel catalyst for the Knoevenagel condensation of aldehydes with malononitrile and ethyl cyanoacetate under solvent free conditions. <i>Catalysis Communications</i> , 2006, 7, 931-935.	3.3	119
5	Chemoselective transfer hydrogenation reactions over nanosized γ -Fe ₂ O ₃ catalyst prepared by novel combustion route. <i>Catalysis Communications</i> , 2007, 8, 1803-1806.	3.3	86
6	Heterogeneously catalyzed strategies for the deconstruction of high density polyethylene: plastic waste valorisation to fuels. <i>Green Chemistry</i> , 2015, 17, 146-156.	9.0	81
7	Choline chloride \cdot 2ZnCl ₂ ionic liquid: an efficient and reusable catalyst for the solvent free Kabachnik—Fields reaction. <i>Tetrahedron Letters</i> , 2012, 53, 2277-2279.	1.4	78
8	A benign synthesis of 2-amino-4H-chromene in aqueous medium using hydrotalcite (HT) as a heterogeneous base catalyst. <i>Catalysis Science and Technology</i> , 2013, 3, 2050.	4.1	71
9	Synthesis of Quinazoline-2,4(1H,3H)-Diones from Carbon dioxide and 2-Aminobenzonitriles Using MgO/ZrO ₂ as a Solid Base Catalyst. <i>Catalysis Letters</i> , 2009, 133, 201-208.	2.6	60
10	Removal of Fluoride from Contaminated Drinking Water using Unmodified and Aluminium Hydroxide Impregnated Blue Lime Stone Waste. <i>Separation Science and Technology</i> , 2009, 44, 1436-1451.	2.5	60
11	Liquid phase catalytic transfer hydrogenation of aromatic nitro compounds on perovskites prepared by microwave irradiation. <i>Applied Catalysis A: General</i> , 2003, 252, 225-230.	4.3	54
12	Magnetically retrievable MFe ₂ O ₄ spinel (M = Mn, Co, Cu, Ni, Zn) catalysts for oxidation of benzylic alcohols to carbonyls. <i>RSC Advances</i> , 2014, 4, 6597.	3.6	47
13	Cross-aldol and Knoevenagel condensation reactions in aqueous micellar media. <i>Catalysis Communications</i> , 2008, 9, 1010-1016.	3.3	44
14	Oxidation of alkyl aromatics to ketones by tert-butyl hydroperoxide on manganese dioxide catalyst. <i>Tetrahedron Letters</i> , 2012, 53, 2989-2992.	1.4	41
15	Ecofriendly and facile Nano ZnO catalyzed solvent-free enamination of 1,3-dicarbonyls. <i>Tetrahedron Letters</i> , 2012, 53, 3857-3860.	1.4	41
16	Magnetically recyclable γ -Fe ₂ O ₃ —HAP nanoparticles for the cycloaddition reaction of alkynes, halides and azides in aqueous media. <i>RSC Advances</i> , 2013, 3, 8184.	3.6	39
17	An efficient route to 1,8-dioxo-octahydroxanthenes and -decahydroacridines using a sulfated zirconia catalyst. <i>Catalysis Communications</i> , 2017, 97, 138-145.	3.3	39
18	An efficient and chemoselective Cbz-protection of amines using silica—sulfuric acid at room temperature. <i>Tetrahedron Letters</i> , 2007, 48, 8170-8173.	1.4	38

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19	Oxidation of alkylaromatics to benzylic ketones using TBHP as an oxidant over LaMO ₃ (M = Cr, Co, Fe, Ti) as a catalyst. <i>Catalysis Communications</i> , 2013, 40, 27-31.	3.3	38
20	Oxidation of benzylic alcohols to carbonyls using tert-butyl hydroperoxide over pure phase nanocrystalline CeCrO ₃ . <i>Catalysis Communications</i> , 2013, 40, 27-31.	3.3	37
21	Chemoselective O-tert-butoxycarbonylation of hydroxy compounds using NaLaTiO ₄ as a heterogeneous and reusable catalyst. <i>Tetrahedron Letters</i> , 2008, 49, 4249-4251.	1.4	35
22	12-Tungstophosphoric acid supported on zirconia as an efficient and heterogeneous catalyst for the synthesis of bis(indolyl)methanes and tris(indolyl)methanes. <i>Catalysis Communications</i> , 2008, 9, 1071-1078.	3.3	34
23	Adsorption of Phenol and Substituted Chlorophenols from Aqueous Solution by Activated Carbon Prepared from Jackfruit (<i>artocarpus heterophyllus</i>). <i>Kinetics and Equilibrium Studies. Separation Science and Technology</i> , 2007, 42, 2019-2032.	2.5	32
24	Sulphated yttria-zirconia as a regioselective catalyst system for the alcoholysis of epoxides. <i>Catalysis Science and Technology</i> , 2012, 2, 1493.	4.1	31
25	Sequential oxidation and condensation of alcohols to benzimidazoles/benzodiazepines by MoO ₃ -SiO ₂ as a heterogeneous bifunctional catalyst. <i>Catalysis Communications</i> , 2010, 11, 1205-1210.	3.3	30
26	Conventional and microwave-assisted multicomponent reaction of alkyne, halide and sodium azide catalyzed by copper apatite as heterogeneous base and catalyst in water. <i>Current Chemistry Letters</i> , 2012, 1, 69-80.	1.6	27
27	Liquid phase Friedel-Crafts benzylation of aromatics on a polymer-supported 12-tungstophosphoric acid catalyst. <i>Catalysis Communications</i> , 2008, 9, 1937-1940.	3.3	21
28	A catalyst-free N-benzyloxycarbonylation of amines in aqueous micellar media at room temperature. <i>Tetrahedron Letters</i> , 2008, 49, 4799-4803.	1.4	19
29	Pickering Interfacial Catalysis of Knoevenagel Condensation in Magnesium Oxide-Stabilized Pickering Emulsion. <i>ACS Omega</i> , 2020, 5, 12224-12235.	3.5	19
30	Hexagonal Mesoporous Silica-Supported Copper Oxide (CuO/HMS) Catalyst: Synthesis of Primary Amides from Aldehydes in Aqueous Medium. <i>ChemPlusChem</i> , 2017, 82, 467-473.	2.8	18
31	Silica supported heteropolyacid catalyzed dehydration of aldoximes to nitriles and alcohols to alkenes. <i>Green Chemistry Letters and Reviews</i> , 2011, 4, 143-149.	4.7	17
32	A mild route for one pot synthesis of 5,6-unsubstituted 1,4-dihydropyridines catalyzed by sulphated mixed metal oxides. <i>Catalysis Science and Technology</i> , 2014, 4, 672-680.	4.1	17
33	C-Se cross-coupling of arylboronic acids and diphenyldiselenides over non precious transition metal (Fe, Cu and Ni) complexes. <i>Molecular Catalysis</i> , 2018, 450, 14-18.	2.0	17
34	Oxidation of Alcohols to Aldehydes and Ketones Using TBHP as an Oxidant over LaMO ₃ (M = Cr, Mn, Co, Ni, Fe) Perovskites. <i>Synthetic Communications</i> , 2012, 42, 299-308.	2.1	16
35	Cross-Coupling Reactions of Aryltriethoxysilanes and Diaryldiselenides - A New Route for the Synthesis of Diarylselenides. <i>ChemistrySelect</i> , 2018, 3, 12291-12296.	1.5	16
36	Greener iodination of arenes using sulphated ceria-zirconia catalysts in polyethylene glycol. <i>RSC Advances</i> , 2014, 4, 6267.	3.6	15

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37	Oxidant free dehydrogenation of alcohols using chitosan/polyacrylamide entrapped Ag nanoparticles. RSC Advances, 2015, 5, 46443-46447.	3.6	14
38	Hexagonal Mesoporous Silica Supported Ultrasmall Copper Oxides for Oxidative Amidation of Carboxylic Acids. ACS Sustainable Chemistry and Engineering, 2018, 6, 12935-12945.	6.7	14
39	Sequential synthesis of β -amino alcohols using a CeO ₂ -ZrO ₂ bifunctional catalyst system. Catalysis Science and Technology, 2013, 3, 1308.	4.1	13
40	Recovery and reuse of palladium from spent glucometer electrochemical test strips. Hydrometallurgy, 2016, 165, 199-205.	4.3	12
41	Interaction of imidazolium based ionic liquids with aqueous Triton X-100 surfactant: Clouding, fluorescence and NMR studies. Journal of Molecular Liquids, 2019, 293, 111481.	4.9	12
42	SO ₄ ²⁻ /SnO ₂ : Efficient, Chemoselective, and Reusable Catalyst for Acylation of Alcohols, Phenols, and Amines at Room Temperature. Synthetic Communications, 2007, 37, 3011-3020.	2.1	11
43	(NH ₄) ₃ PW ₁₂ O ₄₀ as an Efficient and Reusable Catalyst for the Synthesis and Deprotection of 1,1-Diacetates. Synthetic Communications, 2008, 38, 595-602.	2.1	11
44	Heterogeneously Catalyzed Domino Synthesis of 3-Indolylquinones Involving Direct Oxidative C-C Coupling of Hydroquinones and Indoles. ACS Omega, 2017, 2, 2238-2247.	3.5	9
45	A Comparative Study of Properties of Acrylic Based Water-Borne Polymers Using Various Surfactants for Adhesive Applications. Polymer Science - Series B, 2018, 60, 629-637.	0.8	8
46	Poly Ethylene Glycol Based Dicationic Acidic Ionic Liquid [PEG-DAIL][Cl] Used as Cost Effective and Recyclable Catalyst for Biginelli Reactions. Current Catalysis, 2018, 7, 52-59.	0.5	8
47	An efficient Knoevenagel condensation of aldehydes with active methylene compounds over novel, robust CeZrO ₄ catalyst. Research on Chemical Intermediates, 2018, 44, 7805-7814.	2.7	7
48	Photocatalytic Degradation of Reactive Dyes Using Flyash Supported Ag ₂ TiO ₃ Photocatalysts. ChemistrySelect, 2022, 7, .	1.5	7
49	Base-Free Tandem Cyclooxidative Synthesis of Quinazolinones with Gd x Mn - ZnO (M= Mo, V, W) Catalysts. ChemistrySelect, 2019, 4, 3440-3445.	1.5	5
50	New routes for the synthesis of unsymmetrical diarylselenides: Effect of heat, light and ultrasound. Molecular Catalysis, 2019, 476, 110534.	2.0	4
51	SO ₄ ²⁻ /Ce _x Zr _{1-x} O ₂ -catalyzed Synthesis of <i>N</i> - <i>tert</i> -Butylamides from Various Nitriles under Solvent-free Conditions. Chemistry Letters, 2012, 41, 738-740.	1.3	3
52	AMINO-FUNCTIONALIZED ACTIVATED CARBON MATERIALS IN BASE-CATALYZED REACTIONS. Catalysis in Green Chemistry and Engineering, 2018, 1, 113-126.	0.2	2
53	Mixed Micelles of Surface Active Ionic Liquid (SAIL) - Octylphenol Ethoxylate: A Novel Reaction Medium for Selective Oxidation of Toluene to Benzaldehyde. Journal of Surfactants and Detergents, 2021, 24, 185-190.	2.1	2
54	PHOTODEGRADATION OF NORFLOXACIN IN VISIBLE LIGHT USING Ag-TiO ₂ /CFA PHOTOCATALYST. Catalysis in Green Chemistry and Engineering, 2021, 4, 51-63.	0.2	1

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55	Graphene Oxide Pickering Emulsion – A Novel Reaction Medium for the Synthesis of 2-Aminothiazole. ChemistrySelect, 2021, 6, 12446-12454.	1.5	1
56	Effect of Cerium(III) and ionic liquids on the clouding behavior of Triton X-100 micelles. AIP Conference Proceedings, 2018, , .	0.4	0
57	The solubilization of diphenyl diselenide in surfactant solutions. Journal of Dispersion Science and Technology, 0, , 1-7.	2.4	0