

Anjali Patel

List of Publications by Year in descending order

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84
papers

1,959
citations

201674

27
h-index

289244

40
g-index

84
all docs

84
docs citations

84
times ranked

1871
citing authors

#	ARTICLE	IF	CITATIONS
1	12-Tungstophosphoric acid anchored to SBA-15: An efficient, environmentally benign reusable catalysts for biodiesel production by esterification of free fatty acids. <i>Applied Catalysis A: General</i> , 2011, 403, 161-172.	4.3	155
2	Recent progress on supported polyoxometalates for biodiesel synthesis via esterification and transesterification. <i>Green Chemistry</i> , 2015, 17, 89-107.	9.0	120
3	Keggin-type lacunary and transition metal substituted polyoxometalates as heterogeneous catalysts: A recent progress. <i>Catalysis Reviews - Science and Engineering</i> , 2016, 58, 337-370.	12.9	94
4	Biodiesel Production by Esterification of Oleic Acid and Transesterification of Soybean Oil Using a New Solid Acid Catalyst Comprising 12-Tungstosilicic Acid and Zeolite H β . <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13637-13644.	3.7	87
5	12-Tungstophosphoric acid supported on mesoporous molecular material: synthesis, characterization and performance in biodiesel production. <i>Journal of Cleaner Production</i> , 2014, 72, 46-56.	9.3	68
6	Solvent Free Selective Oxidation of Styrene and Benzyl Alcohol to Benzaldehyde over an Eco-Friendly and Reusable Catalyst, Undecamolybdophosphate Supported onto Neutral Alumina. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 732-740.	3.7	66
7	Solvent free clean selective oxidation of alcohols catalyzed by mono transition metal (Co, Mn,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 459, 59-64.	4.3	58
8	Synthesis, characterization and catalytic activity of new solid acid catalysts, H3PW12O40 supported on to hydrous zirconia. <i>Journal of Molecular Catalysis A</i> , 2003, 192, 195-202.	4.8	54
9	Novel heterogeneous catalyst, supported undecamolybdophosphate: synthesis, physico-chemical characterization and solvent-free oxidation of styrene. <i>Dalton Transactions</i> , 2011, 40, 348-355.	3.3	44
10	Keggin type transition metal substituted phosphomolybdates: heterogeneous catalysts for selective aerobic oxidation of alcohols and alkenes under solvent free condition. <i>Catalysis Science and Technology</i> , 2014, 4, 648-656.	4.1	41
11	Efficient synthesis of biodiesel from waste cooking oil using solid acid catalyst comprising 12-tungstosilicic acid and SBA-15. <i>Fuel</i> , 2014, 135, 253-261.	6.4	41
12	Transition-Metal-Substituted Phosphomolybdates: Catalytic and Kinetic Study for Liquid-Phase Oxidation of Styrene. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 11913-11919.	3.7	37
13	Liquid phase oxidation of styrene over zirconia supported undecatungstophosphate using different oxidants: a comparative study. <i>Dalton Transactions</i> , 2010, 39, 2615.	3.3	36
14	Biodiesel synthesis via esterification and transesterification over a new heterogeneous catalyst comprising lacunary silicotungstate and MCM-41. <i>Catalysis Science and Technology</i> , 2013, 3, 3317.	4.1	36
15	Synthesis and Characterization of 12-Tungstosilicic Acid Anchored to MCM-41 as well as Its Use as Environmentally Benign Catalyst for Synthesis of Succinate and Malonate Diesters. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13693-13702.	3.7	33
16	Selective green oxidation of alcohols and alkenes with molecular oxygen using supported undecamolybdophosphate under solvent free condition. <i>Chemical Engineering Journal</i> , 2014, 243, 183-191.	12.7	33
17	Mono lacunary phosphomolybdate supported on MCM-41: synthesis, characterization and solvent free aerobic oxidation of alkenes and alcohols. <i>Dalton Transactions</i> , 2014, 43, 2512-2520.	3.3	33
18	One-step synthesis of a Keggin-type manganese(II)-substituted phosphotungstate: structural and spectroscopic characterization and non-solvent liquid phase oxidation of styrene. <i>Transition Metal Chemistry</i> , 2011, 36, 171-177.	1.4	32

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19	Undecatungstophosphate anchored to MCM-41: An ecofriendly and efficient bifunctional solid catalyst for non-solvent liquid-phase oxidation as well as esterification of benzyl alcohol. <i>Microporous and Mesoporous Materials</i> , 2014, 195, 240-249.	4.4	32
20	Room temperature acetalization of glycerol to cyclic acetals over anchored silicotungstates under solvent free conditions. <i>RSC Advances</i> , 2014, 4, 19294.	3.6	32
21	Selective Green Esterification and Oxidation of Glycerol over 12-Tungstophosphoric Acid Anchored to MCM-48. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14592-14600.	3.7	31
22	One pot oxidative esterification of aldehyde over recyclable cesium salt of nickel substituted phosphotungstate. <i>Applied Catalysis A: General</i> , 2015, 505, 131-140.	4.3	31
23	Sustainable valorisation of glycerol via acetalization as well as carboxylation reactions over silicotungstates anchored to zeolite H β . <i>Applied Catalysis A: General</i> , 2016, 515, 154-163.	4.3	29
24	Cobalt (II) exchanged supported 12-tungstophosphoric acid: Synthesis, characterization and non-solvent liquid phase aerobic oxidation of alkenes. <i>Journal of Molecular Catalysis A</i> , 2010, 321, 22-26.	4.8	28
25	First Series Transition Metal Substituted Phosphotungstates as Catalysts for Selective Non-Solvent Liquid Phase Oxidation of Styrene to Benzaldehyde: A Comparative Study. <i>Journal of Cluster Science</i> , 2011, 22, 587-601.	3.3	28
26	Supported undecatungstophosphate: An efficient recyclable bi-functional catalyst for esterification of alcohols as well as selective oxidation of styrene. <i>Chemical Engineering Journal</i> , 2011, 173, 612-619.	12.7	28
27	Synthesis, structural, and spectral characterization of Keggin-type mono cobalt(II)-substituted phosphotungstate. <i>Journal of Coordination Chemistry</i> , 2011, 64, 4016-4028.	2.2	28
28	Undecatungstophospho(aqua)ruthenate(II): One pot synthesis, characterization and non-solvent liquid phase aerobic oxidation of alkenes. <i>Inorganica Chimica Acta</i> , 2009, 362, 3796-3800.	2.4	27
29	Zirconia supported 12-molybdophosphoric acid: Physico-chemical characterization and non-solvent liquid phase oxidation of styrene. <i>Applied Surface Science</i> , 2009, 255, 7635-7641.	6.1	27
30	Keggin-type cesium salt of first series transition metal-substituted phosphomolybdates: one-pot easy synthesis, structural, and spectral analysis. <i>Journal of Coordination Chemistry</i> , 2012, 65, 3122-3132.	2.2	26
31	Facile synthesis of glycerol carbonate via glycerolysis of urea catalysed by silicotungstates impregnated into MCM-41. <i>RSC Advances</i> , 2015, 5, 52801-52808.	3.6	23
32	Efficient synthesis of biodiesel over a recyclable catalyst comprising a monolacunary silicotungstate and zeolite H β . <i>RSC Advances</i> , 2014, 4, 64379-64387.	3.6	22
33	Functionalized SBA-15 for controlled release of poorly soluble drug, Erythromycin. <i>Microporous and Mesoporous Materials</i> , 2018, 258, 114-121.	4.4	21
34	Low temperature synthesis of bio-fuel additives via valorisation of glycerol with benzaldehyde as well as furfural over a novel sustainable catalyst, 12-tungstosilicic acid anchored to ordered cubic nano-porous MCM-48. <i>Applied Catalysis A: General</i> , 2020, 602, 117729.	4.3	21
35	12-tungstophosphoric and 12-tungstosilicic acid supported onto hydrous zirconia for liquid phase tert-butylation of m-cresol. <i>Catalysis Letters</i> , 2007, 117, 146-152.	2.6	19
36	Camptothecin encapsulated into functionalized MCM-41: In vitro release study, cytotoxicity and kinetics. <i>Materials Science and Engineering C</i> , 2019, 98, 1014-1021.	7.3	19

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37	Modified Mn substituted POMs: Synthetic strategies, structural diversity to applications. <i>Progress in Materials Science</i> , 2021, 118, 100759.	32.8	19
38	A Manganese(II) Sandwich-type Phosphotungstate Complex – Synthesis, Structural Characterization and Catalytic Activity towards Liquid-phase Aerobic Epoxidation of Alkenes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1871-1875.	2.0	18
39	Heck coupling catalyzed by Pd exchanged supported 12-tungstophosphoric acid – an efficient ligand free, low Pd-loading heterogeneous catalyst. <i>RSC Advances</i> , 2012, 2, 116-120.	3.6	17
40	Supported 12-molybdophosphoric acid: Characterization and non-solvent liquid phase oxidation of styrene. <i>Journal of Molecular Catalysis A</i> , 2009, 299, 37-43.	4.8	15
41	Oxidative Esterification of Aldehydes to Esters over Anchored Phosphotungstates. <i>Catalysis Letters</i> , 2014, 144, 1557-1567.	2.6	15
42	Flexible oxidation of styrene using TBHP over zirconia supported mono-copper substituted phosphotungstate. <i>RSC Advances</i> , 2019, 9, 27755-27767.	3.6	15
43	One pot oxidative esterification of benzaldehyde over a supported Cs-salt of mono nickel substituted phosphotungstate. <i>RSC Advances</i> , 2016, 6, 51394-51402.	3.6	14
44	Microwave assisted one pot synthesis and characterization of Cesium salt of di-copper substituted phosphotungstate and its application in the selective epoxidation of cis-cyclooctene with tert-butyl hydroperoxide. <i>Inorganica Chimica Acta</i> , 2017, 458, 101-108.	2.4	14
45	Nickel salt of phosphomolybdic acid as a bi-functional homogeneous recyclable catalyst for base free transformation of aldehyde into ester. <i>RSC Advances</i> , 2020, 10, 22146-22155.	3.6	14
46	An efficient green catalyst comprising 12-tungstophosphoric acid and MCM-41: synthesis characterization and diesterification of succinic acid, a potential bio-platform molecule. <i>Green Chemistry Letters and Reviews</i> , 2012, 5, 161-171.	4.7	13
47	Functionalization of Keggin-type nickel substituted phosphotungstate by imidazole: synthesis, characterization, and catalytic activity. <i>Journal of Materials Science</i> , 2017, 52, 4689-4699.	3.7	13
48	Supported dodecaphosphotungstate and undecaphosphotungstate: a study on the kinetic behavior for the oxidation of styrene. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 103, 165-180.	1.7	12
49	Esterification of biplatform molecules over 12-tungstophosphoric acid anchored to MCM-41. <i>Journal of Porous Materials</i> , 2013, 20, 209-217.	2.6	12
50	Environmentally Benign Oxidations of Alkenes and Alcohols to Corresponding Aldehydes over Anchored Phosphotungstates: Effect of Supports as Well as Oxidants. <i>Catalysis Letters</i> , 2016, 146, 1059-1072.	2.6	11
51	Nickel exchanged supported 12-tungstophosphoric acid: synthesis, characterization and base free one-pot oxidative esterification of aldehyde and alcohol. <i>RSC Advances</i> , 2019, 9, 1460-1471.	3.6	11
52	Aerobic oxidation of alcohols and alkenes over a novel lacunary phosphomolybdate anchored to zeolite H ₂ . <i>RSC Advances</i> , 2015, 5, 36270-36278.	3.6	10
53	Investigation of catalytic properties of Cs salt of di-copper substituted phosphotungstate, Cs ₇ [PW ₁₀ Cu ₂ (H ₂ O) ₃ O ₃₈] in epoxidation of styrene. <i>Inorganica Chimica Acta</i> , 2019, 487, 345-353.	2.4	10
54	Greener, solvent free three component Biginelli reaction over different recyclable solid acid catalysts. <i>Journal of Porous Materials</i> , 2014, 21, 579-588.	2.6	9

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55	Cs salt of di-manganese(II) substituted phosphotungstate: One pot synthesis, structural, spectroscopic characterization and solvent free liquid phase oxidation of styrene using different oxidants. <i>Polyhedron</i> , 2014, 69, 110-118.	2.2	9
56	Stabilized Palladium Nanoparticles: Synthesis, Multi-spectroscopic Characterization and Application for Suzuki–Miyaura Reaction. <i>Catalysis Letters</i> , 2018, 148, 3534-3547.	2.6	9
57	Selective C=C Hydrogenation of Unsaturated Hydrocarbons in Neat Water Over Stabilized Palladium Nanoparticles Via Supported 12-Tungstophosphoric Acid. <i>Catalysis Letters</i> , 2019, 149, 1476-1485.	2.6	9
58	Functionalization of Keggin type manganese substituted phosphotungstate by R-(α)-1-cyclohexylethylamine: Synthesis and characterization. <i>Inorganica Chimica Acta</i> , 2012, 382, 79-83.	2.4	8
59	Keggin type inorganic–organic hybrid material containing Mn(II) monosubstituted phosphotungstate and S-(+)-sec-butyl amine: Synthesis and characterization. <i>Materials Research Bulletin</i> , 2012, 47, 425-431.	5.2	8
60	Novel dilacunary phosphotungstate supported onto zirconia: Synthesis, characterization and versatile catalytic activity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 64, 306-313.	5.3	8
61	Cs Salt of Undecatungstophospho(aqua) Cuprate(II): Microwave Synthesis, Characterization, Catalytic and Kinetic Study for Epoxidation of cis-Cyclooctene with TBHP. <i>ChemistrySelect</i> , 2018, 3, 11087-11097.	1.5	8
62	Hybrid Catalyst Based on Cu Substituted Phosphotungstate and Imidazole: Synthesis, Spectroscopic Characterization, Solvent Free Oxidation of Styrene with TBHP and Kinetics. <i>Catalysis Letters</i> , 2020, 150, 353-364.	2.6	8
63	Conversion of bioplatfrom molecule, succinic acid to value-added products via esterification over 12-tungstosilicic acid anchored to MCM-22. <i>Biomass and Bioenergy</i> , 2021, 151, 106178.	5.7	8
64	12-Tungstophosphoric acid anchored to MCM-22, as a novel sustainable catalyst for the synthesis of potential biodiesel blend, levulinic ester. <i>Renewable Energy</i> , 2022, 187, 933-943.	8.9	8
65	Chiral Phosphotungstate Functionalized with (S)-1-Phenylethylamine: Synthesis, Characterization, and Asymmetric Epoxidation of Styrene. <i>Inorganic Chemistry</i> , 2021, 60, 10979-10989.	4.0	7
66	Mono-copper substituted phosphotungstate supported on to neutral alumina: Synthesis, characterization and detailed studies for oxidation of styrene. <i>Inorganica Chimica Acta</i> , 2021, 522, 120357.	2.4	7
67	Synthesis, characterisation and catalytic activity of non-crystalline organic–inorganic hybrid material comprising Keggin-type manganese(II)-substituted phosphotungstate and salen. <i>Supramolecular Chemistry</i> , 2012, 24, 149-156.	1.2	6
68	12-Tungstophosphoric acid functionalized MCM-41: synthesis, characterization and study of controlled in vitro release of l-arginine. <i>Journal of Porous Materials</i> , 2016, 23, 1113-1123.	2.6	6
69	In vitro release of l-arginine and cysteine from MCM-48: a study on effect of size of active biomolecules on release rate. <i>Journal of Porous Materials</i> , 2018, 25, 1489-1498.	2.6	6
70	Encapsulation of Aspirin into parent and functionalized MCM-41, in vitro release as well as kinetics. <i>Journal of Porous Materials</i> , 2019, 26, 1523-1532.	2.6	6
71	Fe Exchanged Supported Phosphomolybdic Acid: Synthesis, Characterization and Low Temperature Water Mediated Hydrogenation of Cyclohexene. <i>Catalysis Letters</i> , 0, , 1.	2.6	6
72	Polyoxomolybdates as Green Catalysts for Aerobic Oxidation. <i>Springer Briefs in Molecular Science</i> , 2015, , .	0.1	5

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73	Cobalt Substituted Keggin-Type Phosphotungstate, an Efficient Epoxidation Catalyst: Study on Kinetic Behavior as Well as Reaction Mechanism. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015, 45, 397-406.	0.6	5
74	Selective solvent free oxidation of aldehydes to carboxylic acids over anchored 12-tungstophosphoric acid using different oxidants. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 52, 120-126.	5.3	5
75	Unmodified and modified copper polyoxometalates as catalysts for oxidation of alkenes: Kinetic and mechanistic investigation. <i>Inorganica Chimica Acta</i> , 2020, 510, 119757.	2.4	5
76	New catalyst comprising Silicotungstic acid and MCM-22 for degradation of some organic dyes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 10633-10641.	5.3	5
77	Development of a controlled sustainable anticancer drug delivery nanosystem comprising doxorubicin and functionalized MCM-48. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 72, 103419.	3.0	5
78	Hydrogenation of Cyclohexene in Aqueous Solvent Mixture Over a Sustainable Recyclable Catalyst Comprising Palladium and Monolacunary Silicotungstate Anchored to MCM-41. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 423-429.	2.0	4
79	Designing of Highly Active and Sustainable Encapsulated Stabilized Palladium Nanoclusters as well as Real Exploitation for Catalytic Hydrogenation in Water. <i>Catalysis Letters</i> , 2021, 151, 803-820.	2.6	4
80	Anchored Silicotungstates: Effect of Supports on Catalytic Activity. <i>Catalysis Surveys From Asia</i> , 2019, 23, 257-264.	2.6	3
81	Polyoxometalate based hybrid chiral material: Synthesis, characterizations and aerobic asymmetric oxidation reaction. <i>Journal of Coordination Chemistry</i> , 2019, 72, 3417-3429.	2.2	3
82	Synthesis and characterization of supported stabilized palladium nanoparticles for selective hydrogenation in water at low temperature. <i>RSC Advances</i> , 2021, 11, 8218-8227.	3.6	3
83	Designing of Stabilized Palladium Nanoclusters: Characterization, Effect of Support and Acidity on C-C cross coupling. <i>Catalysis Letters</i> , 0, , 1.	2.6	2
84	Sandwich type tri-palladium substituted phosphotungstate, [Pd ₃ (PW ₉ O ₃₄) ₂] ¹¹⁻ : Synthesis, structural characterization and catalytic evaluation. <i>Polyhedron</i> , 2021, 193, 114896.	2.2	1