

Manickam Selvaraj

List of Publications by Year in descending order

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73
papers

1,830
citations

257101

24
h-index

288905

40
g-index

75
all docs

75
docs citations

75
times ranked

1665
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of silver nanoparticles using plant extracts and their antimicrobial activities: a review of recent literature. <i>RSC Advances</i> , 2021, 11, 2804-2837.	1.7	266
2	Synthesis and characterization of Mn-MCM-41 and Zr-Mn-MCM-41. <i>Microporous and Mesoporous Materials</i> , 2005, 78, 139-149.	2.2	103
3	Synthesis, characterization and catalytic application of MCM-41 mesoporous molecular sieves containing Zn and Al. <i>Applied Catalysis A: General</i> , 2003, 242, 347-364.	2.2	100
4	A review of the recent progress on heterogeneous catalysts for Knoevenagel condensation. <i>Dalton Transactions</i> , 2021, 50, 4445-4469.	1.6	95
5	Comparison of mesoporous Al-MCM-41 molecular sieves in the production of p-cymene for isopropylation of toluene. <i>Journal of Molecular Catalysis A</i> , 2002, 186, 173-186.	4.8	84
6	Facile synthesis of efficient construction of tungsten disulfide/iron cobaltite nanocomposite grown on nickel foam as a battery-type energy material for electrochemical supercapacitors with superior performance. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 434-446.	5.0	69
7	An Optimal Direct Synthesis of CrSBA-15 Mesoporous Materials with Enhanced Hydrothermal Stability. <i>Chemistry of Materials</i> , 2007, 19, 509-519.	3.2	66
8	Direct Synthesis of Well-Ordered and Unusually Reactive MnSBA-15 Mesoporous Molecular Sieves with High Manganese Content. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21793-21802.	1.2	63
9	Step-up synthesis of amidoxime-functionalised periodic mesoporous organosilicas with an amphoteric ligand in the framework for drug delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 9100.	6.7	61
10	Epoxidation of styrene over mesoporous Zr-Mn-MCM-41. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 472-479.	2.2	47
11	Recent advances in multifunctional nanomaterials for photothermal-enhanced Fenton-based chemodynamic tumor therapy. <i>Materials Today Bio</i> , 2022, 13, 100197.	2.6	45
12	Functionalized porous organic materials as efficient media for the adsorptive removal of Hg(II) ions. <i>Environmental Science: Nano</i> , 2020, 7, 2887-2923.	2.2	44
13	Cross-Linked Porous Polymers as Heterogeneous Organocatalysts for Task-Specific Applications in Biomass Transformations, CO ₂ Fixation, and Asymmetric Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12431-12460.	3.2	40
14	Synthesis of 3-(2-furylmethylene)-2,4-pentanedione using DL-Alanine functionalized MCM-41 catalyst via Knoevenagel condensation reaction. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 260-269.	2.2	39
15	Well ordered two-dimensional mesoporous CeSBA-15 synthesized with improved hydrothermal stability and catalytic activity. <i>Microporous and Mesoporous Materials</i> , 2011, 138, 94-101.	2.2	38
16	Carbon Nanofibers as Potential Catalyst Support for Fuel Cell Cathodes: A Review. <i>Energy & Fuels</i> , 2021, 35, 11761-11799.	2.5	37
17	MXene (Ti ₃ C ₂ T _x) supported electrocatalysts for methanol and ethanol electrooxidation: A review. <i>Ceramics International</i> , 2021, 47, 28106-28121.	2.3	33
18	Direct synthesis of mesoporous CrSBA-15 catalyst and its high activity and selectivity for oxidation of anthracene. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 240-249.	2.2	30

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19	Recent Advances on MXene-Based Electrocatalysts toward Oxygen Reduction Reaction: A Focused Review. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100975.	1.9	30
20	Highly active and green mesostructured titanasilicate catalysts synthesized for selective synthesis of benzoquinones. <i>Catalysis Science and Technology</i> , 2014, 4, 2674.	2.1	27
21	Highly selective synthesis of vitamin K3 over mesostructured titanium catalysts. <i>Catalysis Today</i> , 2010, 158, 377-384.	2.2	26
22	Highly selective synthesis of nopol over mesoporous and microporous solid acid catalysts. <i>Journal of Molecular Catalysis A</i> , 2006, 246, 218-222.	4.8	25
23	Effect of tin precursors and crystallization temperatures on the synthesis of SBA-15 with high levels of tetrahedral tin. <i>Journal of Materials Chemistry</i> , 2007, 17, 3610.	6.7	25
24	Highly selective and clean synthesis of nopol over well-ordered mesoporous tin silicate catalysts. <i>New Journal of Chemistry</i> , 2010, 34, 1921.	1.4	25
25	Catalytic performance of polymer-supported ionic liquids in the cycloaddition of carbon dioxide to allyl glycidyl ether. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 102, 353-365.	0.8	25
26	Design and preparation of ternary $\text{Fe}_2\text{O}_3/\text{SnO}_2/\text{rGO}$ nanocomposite as an electrode material for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8327-8343.	1.1	23
27	Comparison of mesoporous solid acid catalysts in the production of DABCO by cyclization of ethanolamine. <i>Synthesis and characterization of mesoporous solid acid catalysts. Microporous and Mesoporous Materials</i> , 2004, 74, 143-155.	2.2	20
28	Highly efficient and clean synthesis of verbenone over well ordered two-dimensional mesoporous chromium silicate catalysts. <i>Catalysis Today</i> , 2010, 158, 286-295.	2.2	20
29	Catalytic performance of polymer-supported ionic liquids in the synthesis of glycerol carbonate from glycerol and urea. <i>Research on Chemical Intermediates</i> , 2011, 37, 1305-1312.	1.3	18
30	Novel hierarchically dispersed mesoporous silica spheres: effective adsorbents for mercury from wastewater and a thermodynamic study. <i>New Journal of Chemistry</i> , 2014, 38, 3899-3906.	1.4	18
31	PVP-PS supported ultra-small Pd nanoparticles for the room temperature reduction of 4-nitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103899.	3.3	17
32	Nano-silver incorporated amine functionalized graphene oxide titania nanotube composite: a promising DSSC photoanode. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 131, 104205.	2.7	15
33	A new approach for synthesis of CSA-SBA-15: Its characterization and superior catalytic activity. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 494-500.	2.2	13
34	Selective synthesis of vitamin K3 over mesoporous NbSBA-15 catalysts synthesized by an efficient hydrothermal method. <i>Dalton Transactions</i> , 2012, 41, 9633.	1.6	12
35	One-pot synthesis of bismuth yttrium tungstate nanosheet decorated 3D-BiOBr nanoflower heterostructure with enhanced visible light photocatalytic activity. <i>Chemosphere</i> , 2022, 297, 133993.	4.2	12
36	Highly active mesoporous chromium silicate catalysts in side-chain oxidation of alkylaromatics. <i>Dalton Transactions</i> , 2012, 41, 14204.	1.6	11

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37	Promising catalytic activity by non-thermal plasma synthesized SBA-15-supported metal catalysts in one-step plasma-catalytic methane conversion to value-added fuels. <i>Catalysis Science and Technology</i> , 2020, 10, 5566-5578.	2.1	11
38	Highly selective synthesis of 2,6-bis(4-methylphenyl)pyridine over novel mesoporous solid acid catalysts. <i>Microporous and Mesoporous Materials</i> , 2005, 85, 52-58.	2.2	10
39	Highly selective synthesis of t-butyl-p-cresol (TBC) by t-butylation of p-cresol with t-butyl alcohol over microporous and mesoporous catalysts. <i>Journal of Molecular Catalysis A</i> , 2007, 264, 44-49.	4.8	10
40	Selective synthesis of benzoquinones over Cu(ii)-containing propylsalicylaldimine functionalized mesoporous solid catalysts. <i>Dalton Transactions</i> , 2019, 48, 3291-3299.	1.6	10
41	Visible light-induced catalytic abatement of 4-nitrophenol and Rhodamine B using ZnO/g-C ₃ N ₄ catalyst. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	0.7	9
42	Enhanced photocatalytic activity of ZnO hexagonal tube/r-GO composite on degradation of organic aqueous pollutant and study of charge transport properties. <i>Chemosphere</i> , 2022, 291, 132782.	4.2	9
43	Comparison of mesoporous solid acid catalysts in the production of DABCO by cyclization of ethanolamine. <i>Synthesis of DABCO over mesoporous solid acid catalysts. Microporous and Mesoporous Materials</i> , 2004, 74, 157-162.	2.2	8
44	Silver nanoparticles-supported graphitic-like carbon nitride for the electrochemical sensing of nitrobenzene and its derivatives. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19912-19924.	1.1	8
45	Annealing effect on photocatalytic activity of ZnO nanostructures for organic dye degradation. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8868-8879.	1.1	8
46	Investigation on synergistic effect of rGO and carbon quantum dots-embedded ZnO hollow spheres for improved photocatalytic aqueous pollutant removal process. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28633-28647.	1.1	8
47	Selective synthesis of 2-t-butylated hydroxyl anisole by t-butylation of 4-methoxyphenol with t-butyl alcohol over mesoporous solid acid catalysts. <i>Journal of Molecular Catalysis A</i> , 2007, 265, 250-257.	4.8	7
48	A green mesostructured vanadosilicate catalyst and its unprecedented catalytic activity for the selective synthesis of 2,6-disubstituted p-benzoquinones. <i>Dalton Transactions</i> , 2014, 43, 958-966.	1.6	7
49	Green oxidation of alkylaromatics using molecular oxygen over mesoporous manganese silicate catalysts. <i>Dalton Transactions</i> , 2020, 49, 9710-9718.	1.6	7
50	Photocatalytic oxidation of ceftiofur sodium under UV-visible irradiation using plasmonic porous Ag-TiO ₂ nanospheres. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 384-392.	2.9	7
51	Comparison of mesoporous solid acid catalysts in the production of DABCO by cyclization of ethanolamine. <i>Microporous and Mesoporous Materials</i> , 2004, 74, 143-155.	2.2	6
52	Cycloaddition of styrene oxide and CO ₂ mediated by pyrolysis of urea. <i>RSC Advances</i> , 2013, 3, 14290.	1.7	6
53	Design and preparation of NiCoS nanostructures on Ni foam for high-performance asymmetric supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9256-9268.	1.1	6
54	Aminosilicate modified zinc oxide Nanorod-GO nanocomposite for DSSC photoanodes. <i>Ceramics International</i> , 2022, 48, 6037-6045.	2.3	6

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55	Selective synthesis of 6,8-di-t-butylated flavan over Zn-Al containing mesoporous silica catalysts. Dalton Transactions, 2012, 41, 14197.	1.6	5
56	Role of surfactant in tailoring the properties of Bi ₂ S ₃ nanoparticles for photocatalytic degradation of methylene blue dye. Journal of Materials Science: Materials in Electronics, 2022, 33, 8946-8957.	1.1	5
57	A new 5-bromoindolehydrazone anchored diiodosalicylaldehyde derivative as efficient fluoro and chromophore for selective and sensitive detection of tryptamine and F ⁺ ions: Applications in live cell imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 269, 120777.	2.0	5
58	Molecular Design and Cost-Effective Synthesis of Tetraphenylethene-Based Hole-Transporting Materials for Hybrid Solar Cell Application. Energy & Fuels, 2022, 36, 3909-3919.	2.5	5
59	Mesoporous silica-giant particle with slit pore arrangement as an adsorbent for heavy metal oxyanions from aqueous medium. RSC Advances, 2015, 5, 10260-10266.	1.7	4
60	Synthesis and characterization of CeO ₂ supported ZSM-5 zeolite for organic dye degradation. Journal of Materials Science: Materials in Electronics, 2022, 33, 9211-9223.	1.1	4
61	Synthesis of r-GO-incorporated CoWO ₄ nanostructure for high-performance supercapattery applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 9312-9323.	1.1	4
62	Room-Temperature Toluene Decomposition by Catalytic Non-Thermal Plasma Reactor. IEEE Transactions on Plasma Science, 2022, 50, 1416-1422.	0.6	4
63	One-step synthesis of rod-on-plate like 1D/2D-NiMoO ₄ /BiOI nanocomposite for an efficient visible light driven photocatalyst for pollutant degradation. Environmental Science and Pollution Research, 2022, 29, 65222-65232.	2.7	4
64	Selective synthesis of octahydroacridines and diannelated pyridines over zinc-containing mesoporous aluminosilicate molecular sieve catalysts. Dalton Transactions, 2019, 48, 12986-12995.	1.6	3
65	ZnAlMCM-41: a very ecofriendly and reusable solid acid catalyst for the highly selective synthesis of 1,3-dioxanes by the Prins cyclization of olefins. Dalton Transactions, 2021, 50, 1672-1682.	1.6	3
66	Electrochemical studies of 1,2,3-Benzotriazole inhibitor for acrylic-based coating in different acidic media systems. Journal of Polymer Research, 2020, 27, 1.	1.2	3
67	A novel indolehydrazone appended salicylaldehyde platform for detection of multianalytes (Al ³⁺ , Zn ²⁺) Tj ETQq1 1 0.784314,rgBT /Ov 1.8 3	1.8	3
68	Highly active and spherical natured mesoporous aluminosilicate nanoparticles materialized for t-butylation of phenol. RSC Advances, 2016, 6, 60983-60995.	1.7	2
69	Highly Selective Synthesis of Octahydroaminoacridine over Mesoporous ZnAlMCM-41 Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 14703-14709.	1.8	2
70	Solvent-free benzylic oxidation of aromatics over Cu(II)-containing propylsalicylalimine anchored on the surface of mesoporous silica catalysts. Dalton Transactions, 2021, 50, 15118-15128.	1.6	2
71	Switching of support materials for the hydrogenation of nitroarenes: A review. Catalysis Reviews - Science and Engineering, 2024, 66, 259-342.	5.7	2
72	Functionalized Mesoporous Silica for Highly Selective Sensing of Iron Ion in Water. Journal of Nanoscience and Nanotechnology, 2021, 21, 4406-4411.	0.9	0

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73	Three and one-dimensional hierarchical Fe_2O_3 nanostructures for photoelectrochemical water oxidation. Journal of Materials Science: Materials in Electronics, 0, , 1.	1.1	0