

# Katabathini Narasimharao

## List of Publications by Year in descending order

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73  
papers

2,501  
citations

279487

23  
h-index

205818

48  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3181  
citing authors

#	ARTICLE	IF	CITATIONS
1	New green perspective to dihydropyridines synthesis utilizing modified heteropoly acid catalysts. <i>Catalysis Today</i> , 2022, 397-399, 484-496.	2.2	9
2	Noble metal (Pd, Pt and Rh) incorporated LaFeO <sub>3</sub> perovskite oxides for catalytic oxidative cracking of n-propane. <i>Catalysis Today</i> , 2022, 397-399, 81-93.	2.2	8
3	Enhanced stability of SrRuO <sub>3</sub> mixed oxide via monovalent doping in Sr <sub>1-x</sub> K <sub>x</sub> RuO <sub>3</sub> for the oxygen evolution reaction. <i>Journal of Power Sources</i> , 2022, 521, 230950.	4.0	15
4	MoO <sub>x</sub> and WO <sub>x</sub> conjugated iron phosphate nanotubes catalysts for benzylation of benzene using benzyl alcohol. <i>Catalysis Communications</i> , 2022, 164, 106423.	1.6	3
5	Twin-free, directly synthesized MFI nanosheets with improved thickness uniformity and their use in membrane fabrication. <i>Science Advances</i> , 2022, 8, eabm8162.	4.7	30
6	Fe <sub>3</sub> O <sub>4</sub> @date seeds powder: a sustainable nanocomposite material for wastewater treatment. <i>Journal of Materials Research and Technology</i> , 2022, 18, 3581-3597.	2.6	14
7	Ag/Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> nanofibers: Visible light photocatalysts for degradation of p-nitrophenol. <i>Molecular Catalysis</i> , 2022, 524, 112309.	1.0	3
8	Cobalt oxide supported multi wall carbon nanotube catalysts for hydrogen production via sodium borohydride hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6404-6418.	3.8	39
9	Antimony Substituted Ammonium 12-Molybdophosphoric Acid Catalysts for Gas Phase Chlorobenzene Oxidation. <i>Catalysis Letters</i> , 2021, 151, 1025-1037.	1.4	2
10	High-performance ammonia-selective MFI nanosheet membranes. <i>Chemical Communications</i> , 2021, 57, 580-582.	2.2	20
11	Cu, Fe and Mn oxides intercalated SiO <sub>2</sub> pillared magadiite and ilerite catalysts for NO decomposition. <i>Applied Catalysis A: General</i> , 2021, 616, 118100.	2.2	10
12	Fewâ€œUnitâ€œCell MFI Zeolite Synthesized using a Simple Diâ€œquaternary Ammonium Structureâ€œDirecting Agent. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19214-19221.	7.2	19
13	Fewâ€œUnitâ€œCell MFI Zeolite Synthesized using a Simple Diâ€œquaternary Ammonium Structureâ€œDirecting Agent. <i>Angewandte Chemie</i> , 2021, 133, 19363-19370.	1.6	8
14	Synthesis, characterization and photocatalytic properties of WO <sub>3</sub> /hexagonal platelet graphite nanocomposites. <i>Catalysis Today</i> , 2020, 357, 655-663.	2.2	4
15	Yttrium Oxide Supported La <sub>2</sub> O <sub>3</sub> Nanomaterials for Catalytic Oxidative Cracking of n-Propane to Olefins. <i>Catalysis Letters</i> , 2020, 150, 185-195.	1.4	13
16	Influence of synthesis conditions on physico-chemical and photocatalytic properties of rare earth (Ho, Nd and Sm) oxides. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1819-1830.	2.6	12
17	Porous Fe <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> and NiO-ZrO <sub>2</sub> nanocomposites for catalytic N <sub>2</sub> O decomposition. <i>Catalysis Today</i> , 2020, 348, 166-176.	2.2	16
18	PtO <sub>x</sub> -TiO <sub>2</sub> anatase nanomaterials for photocatalytic reformation of methanol to hydrogen: effect of TiO <sub>2</sub> morphology. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14907-14921.	2.6	25

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19	Highly Efficient Nanosized Mesoporous CuMgAl Ternary Oxide Catalyst for Nitro-Alcohol Synthesis: Ultrasound-Assisted Sustainable Green Perspective for the Henry Reaction. ACS Omega, 2020, 5, 6532-6544.	1.6	21
20	Establishing High Photocatalytic H <sub>2</sub> Evolution from Multiwalled Titanate Nanotubes. ChemCatChem, 2020, 12, 2951-2956.	1.8	15
21	Y2O3 modified Au-La2O3 nanorod catalysts for oxidative cracking of n-propane. Fuel, 2020, 280, 118599.	3.4	12
22	Gold supported yttrium oxide nanorods for catalytic oxidative cracking of n-propane to light olefins. Fuel, 2020, 278, 118375.	3.4	8
23	Structural and catalytic properties of copper silicate nanomaterials. Scientific Reports, 2020, 10, 518.	1.6	19
24	Influence of synthesis route on physico-chemical and catalytic properties of nanosized K-LTL zeolites. Molecular Catalysis, 2019, 475, 110458.	1.0	0
25	Template Assisted Microwave Synthesis of rGO-ZrO <sub>2</sub> Composites: Efficient Photocatalysts Under Visible Light. Journal of Nanoscience and Nanotechnology, 2019, 19, 5177-5188.	0.9	15
26	H-ZSM-5 Materials Embedded in an Amorphous Silica Matrix: Highly Selective Catalysts for Propylene in Methanol-to-Olefin Process. Catalysts, 2019, 9, 364.	1.6	18
27	Lanthanum Exchanged Keggin Structured Heteropoly Compounds for Biodiesel Production. Catalysts, 2019, 9, 979.	1.6	8
28	Influence of polyoxometalate structure in ammoxidation of 2-methylpyrazine. Catalysis Communications, 2018, 108, 17-22.	1.6	6
29	Acidic Peptizing Agent Effect on Anatase-Rutile Ratio and Photocatalytic Performance of TiO <sub>2</sub> Nanoparticles. Nanoscale Research Letters, 2018, 13, 48.	3.1	44
30	Nanosized samarium modified Au-Ce 0.5 Zr 0.5 O 2 catalysts for oxidation of benzyl alcohol. Molecular Catalysis, 2018, 456, 10-21.	1.0	24
31	Catalytic oxidative cracking of n-propane over nanosized gold supported La2O3 catalysts. Fuel, 2018, 233, 796-804.	3.4	15
32	Titelbild: Nanoscale Control of Homoepitaxial Growth on a Twoâ€­Dimensional Zeolite (Angew. Chem.) Tj ETQq0 0 Q rgBT /Ovgrlock 10 T	1.6	8
33	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. Nature, 2017, 543, 690-694.	13.7	446
34	Nanoscale Control of Homoepitaxial Growth on a Twoâ€­Dimensional Zeolite. Angewandte Chemie - International Edition, 2017, 56, 535-539.	7.2	50
35	Nanoscale Control of Homoepitaxial Growth on a Twoâ€­Dimensional Zeolite. Angewandte Chemie, 2017, 129, 550-554.	1.6	15
36	Structural and photocatalytic properties of precious metals modified TiO <sub>2</sub> -BEA zeolite composites. Molecular Catalysis, 2017, 441, 140-149.	1.0	26

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37	Influence of preparation conditions on the catalytic activity of high surface area silica in partial methanol oxidation. <i>Chemical Engineering Journal</i> , 2017, 330, 852-862.	6.6	10
38	Structural and photocatalytic properties of Pd-deposited semiconductors with different morphology. <i>RSC Advances</i> , 2017, 7, 55633-55645.	1.7	15
39	Low Temperature Oxidation of Carbon Monoxide over Mesoporous Au-Fe <sub>2</sub> O <sub>3</sub> Catalysts. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-14.	1.5	11
40	Design, Spectroscopic Characterization, Electrical Conductivity and Molecular Modelling Studies of Biologically Pissant Co(II) and Ni(II) Complexes of N,N'-bis(furan-2-ylmethyl)benzene-1,2-dicarboxamide. <i>International Journal of Electrochemical Science</i> , 2016, , 7282-7307.	0.5	3
41	Physico-Chemical and Catalytic Properties of Mesoporous CuO-ZrO <sub>2</sub> Catalysts. <i>Catalysts</i> , 2016, 6, 57.	1.6	41
42	Titelbild: Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports ( <i>Angew. Chem.</i> 25/2016). <i>Angewandte Chemie</i> , 2016, 128, 7123-7123.	1.6	0
43	Effect of TiO <sub>2</sub> morphology on the benzyl alcohol oxidation activity of Fe <sub>2</sub> O <sub>3</sub> - TiO <sub>2</sub> nanomaterials. <i>RSC Advances</i> , 2016, 6, 71076-71091.	1.7	13
44	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7184-7187.	7.2	100
45	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie</i> , 2016, 128, 7300-7303.	1.6	9
46	Simple and efficient protocol for synthesis of pyrido[1,2-a]pyrimidin-4-one derivatives over solid heteropolyacid catalysts. <i>RSC Advances</i> , 2016, 6, 11921-11932.	1.7	15
47	Ethanol/water mixture pervaporation performance of oriented silicalite-1 membranes made by gel-free secondary growth. <i>AIChE Journal</i> , 2016, 62, 556-563.	1.8	55
48	Carbon covered Mg-Al hydrotalcite supported nanosized Ru catalysts for ammonia synthesis. <i>Journal of Molecular Catalysis A</i> , 2016, 411, 157-166.	4.8	12
49	Effect of preparation conditions on structural and catalytic properties of lithium zirconate. <i>Ceramics International</i> , 2016, 42, 1318-1331.	2.3	12
50	Photocatalytic Degradation of p-Nitrophenol in Aqueous Suspension by Using Graphene/ZrO <sub>2</sub> Catalysts. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 448-457.	0.4	19
51	Zeolite Membranes: Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers ( <i>Adv. Mater.</i> 21/2015). <i>Advanced Materials</i> , 2015, 27, 3339-3339.	11.1	0
52	Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers. <i>Advanced Materials</i> , 2015, 27, 3243-3249.	11.1	182
53	Porous Ag-Fe <sub>2</sub> O <sub>3</sub> nanocomposite catalysts for the oxidation of carbon monoxide. <i>Applied Catalysis A: General</i> , 2015, 505, 431-440.	2.2	41
54	Heteropolyacid generated on the surface of iron phosphate nanotubes: structure and catalytic activity studies. <i>RSC Advances</i> , 2015, 5, 63917-63929.	1.7	11

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55	Pillared HMC-36 zeolite catalyst for biodiesel production by esterification of palmitic acid. <i>Journal of Molecular Catalysis A</i> , 2015, 406, 159-167.	4.8	43
56	Influence of crystal structure of nanosized ZrO <sub>2</sub> on photocatalytic degradation of methyl orange. <i>Nanoscale Research Letters</i> , 2015, 10, 73.	3.1	377
57	2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3-nm Thick MFI Zeolite Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6571-6575.	7.2	67
58	Effect of pretreatment temperature on the photocatalytic activity of microwave irradiated porous nanocrystalline ZnO. <i>New Journal of Chemistry</i> , 2015, 39, 321-332.	1.4	29
59	Nanostructured Mg-Al Hydrotalcite as Catalyst for Fine Chemical Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1931-1946.	0.9	37
60	The Influence of Phosphorous Precursor on the Structure and Ammoxidation Activity of Molybdenum Phosphate Catalysts. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 103-112.	1.1	1
61	Nanosized iron and nickel oxide zirconia supported catalysts for benzylation of benzene: Role of metal oxide support interaction. <i>Applied Catalysis A: General</i> , 2014, 486, 19-31.	2.2	19
62	Ru-Ca-ZnO Composite Catalysts for the Synthesis of Methyl Isobutyl Ketone via Single Step Gas Phase Acetone Self-Condensation. <i>Catalysis Letters</i> , 2014, 144, 1278-1288.	1.4	10
63	Ammoxidation of 2-methyl pyrazine on supported ammonium salt of 12-molybdophosphoric acid catalysts: The influence of nature of support. <i>Journal of Chemical Sciences</i> , 2014, 126, 487-498.	0.7	3
64	Effect of Si precursor on structural and catalytic properties of nanosize magnesium silicates. <i>Applied Catalysis A: General</i> , 2014, 488, 208-218.	2.2	26
65	Iron oxide supported sulfated TiO <sub>2</sub> nanotube catalysts for NO reduction with propane. <i>Ceramics International</i> , 2014, 40, 4039-4053.	2.3	16
66	Synthesis, characterization, and catalytic activity of nitridated magnesium silicate catalysts. <i>Journal of Materials Science</i> , 2013, 48, 4274-4283.	1.7	12
67	Microwave assisted efficient protocol for the classic Ullmann homocoupling reaction using Cu-Mg-Al hydrotalcite catalysts. <i>Journal of Molecular Catalysis A</i> , 2013, 379, 152-162.	4.8	29
68	Catalytic Oxidative Cracking of Propane Over Nanosized Gold Supported Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Catalysts. <i>Catalysis Letters</i> , 2013, 143, 1074-1084.	1.4	23
69	Synthesis and characterization of partially crystalline nanosized ZSM-5 zeolites. <i>Ceramics International</i> , 2013, 39, 683-689.	2.3	23
70	Mg-Al hydrotalcite as an efficient catalyst for microwave assisted regioselective 1,3-dipolar cycloaddition of nitrilimines with the enamionone derivatives: A green protocol. <i>Journal of Molecular Catalysis A</i> , 2013, 367, 12-22.	4.8	28
71	Effect of iron oxide loading on the phase transformation and physicochemical properties of nanosized mesoporous ZrO <sub>2</sub> . <i>Materials Research Bulletin</i> , 2012, 47, 3463-3472.	2.7	37
72	Increased Dispersion of Supported Gold during Methanol Carbonylation Conditions. <i>Journal of the American Chemical Society</i> , 2009, 131, 6973-6975.	6.6	75

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73	Novel solid basic catalysts by nitridation of zeolite beta at low temperature. Microporous and Mesoporous Materials, 2006, 90, 377-383.	2.2	53