

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	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. <i>Nature</i> , 2017, 543, 690-694.	13.7	446
2	Influence of crystal structure of nanosized ZrO ₂ on photocatalytic degradation of methyl orange. <i>Nanoscale Research Letters</i> , 2015, 10, 73.	3.1	377
3	Oriented MFI Membranes by Gel-Free Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers. <i>Advanced Materials</i> , 2015, 27, 3243-3249.	11.1	182
4	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Isomer-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7184-7187.	7.2	100
5	Increased Dispersion of Supported Gold during Methanol Carbonylation Conditions. <i>Journal of the American Chemical Society</i> , 2009, 131, 6973-6975.	6.6	75
6	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
7	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
8	Novel solid basic catalysts by nitridation of zeolite beta at low temperature. <i>Microporous and Mesoporous Materials</i> , 2006, 90, 377-383.	2.2	53
9	Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 535-539.	7.2	50
10	Acidic Peptizing Agent Effect on Anatase-Rutile Ratio and Photocatalytic Performance of TiO ₂ Nanoparticles. <i>Nanoscale Research Letters</i> , 2018, 13, 48.	3.1	44
11	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
12	Porous Ag-Fe ₂ O ₃ nanocomposite catalysts for the oxidation of carbon monoxide. <i>Applied Catalysis A: General</i> , 2015, 505, 431-440.	2.2	41
13	Physico-Chemical and Catalytic Properties of Mesoporous CuO-ZrO ₂ Catalysts. <i>Catalysts</i> , 2016, 6, 57.	1.6	41
14	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
15	Effect of iron oxide loading on the phase transformation and physicochemical properties of nanosized mesoporous ZrO ₂ . <i>Materials Research Bulletin</i> , 2012, 47, 3463-3472.	2.7	37
16	Nanostructured Mg-Al Hydrotalcite as Catalyst for Fine Chemical Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1931-1946.	0.9	37
17	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
18	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

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19	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
20	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
21	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
22	Structural and photocatalytic properties of precious metals modified TiO ₂ -BEA zeolite composites. <i>Molecular Catalysis</i> , 2017, 441, 140-149.	1.0	26
23	PtOx-TiO ₂ anatase nanomaterials for photocatalytic reformation of methanol to hydrogen: effect of TiO ₂ morphology. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14907-14921.	2.6	25
24	Nanosized samarium modified Au-Ce 0.5 Zr 0.5 O 2 catalysts for oxidation of benzyl alcohol. <i>Molecular Catalysis</i> , 2018, 456, 10-21.	1.0	24
25	Catalytic Oxidative Cracking of Propane Over Nanosized Gold Supported Ce _{0.5} Zr _{0.5} O ₂ Catalysts. <i>Catalysis Letters</i> , 2013, 143, 1074-1084.	1.4	23
26	Synthesis and characterization of partially crystalline nanosized ZSM-5 zeolites. <i>Ceramics International</i> , 2013, 39, 683-689.	2.3	23
27	Highly Efficient Nanosized Mesoporous CuMgAl Ternary Oxide Catalyst for Nitro-Alcohol Synthesis: Ultrasound-Assisted Sustainable Green Perspective for the Henry Reaction. <i>ACS Omega</i> , 2020, 5, 6532-6544.	1.6	21
28	High-performance ammonia-selective MFI nanosheet membranes. <i>Chemical Communications</i> , 2021, 57, 580-582.	2.2	20
29	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
30	Structural and catalytic properties of copper silicate nanomaterials. <i>Scientific Reports</i> , 2020, 10, 518.	1.6	19
31	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quatary Ammonium Structure-Directing Agent. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19214-19221.	7.2	19
32	Photocatalytic Degradation of p-Nitrophenol in Aqueous Suspension by Using Graphene/ZrO ₂ Catalysts. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 448-457.	0.4	19
33	H-ZSM-5 Materials Embedded in an Amorphous Silica Matrix: Highly Selective Catalysts for Propylene in Methanol-to-Olefin Process. <i>Catalysts</i> , 2019, 9, 364.	1.6	18
34	Iron oxide supported sulfated TiO ₂ nanotube catalysts for NO reduction with propane. <i>Ceramics International</i> , 2014, 40, 4039-4053.	2.3	16
35	Poros Fe ₂ O ₃ -ZrO ₂ and NiO-ZrO ₂ nanocomposites for catalytic N ₂ O decomposition. <i>Catalysis Today</i> , 2020, 348, 166-176.	2.2	16
36	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

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37	Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. <i>Angewandte Chemie</i> , 2017, 129, 550-554.	1.6	15
38	Structural and photocatalytic properties of Pd-deposited semiconductors with different morphology. <i>RSC Advances</i> , 2017, 7, 55633-55645.	1.7	15
39	Catalytic oxidative cracking of n-propane over nanosized gold supported La ₂ O ₃ catalysts. <i>Fuel</i> , 2018, 233, 796-804.	3.4	15
40	Template Assisted Microwave Synthesis of rGO-ZrO ₂ Composites: Efficient Photocatalysts Under Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 5177-5188.	0.9	15
41	Establishing High Photocatalytic H ₂ Evolution from Multiwalled Titanate Nanotubes. <i>ChemCatChem</i> , 2020, 12, 2951-2956.	1.8	15
42	Enhanced stability of SrRuO ₃ mixed oxide via monovalent doping in Sr _{1-x} K _x RuO ₃ for the oxygen evolution reaction. <i>Journal of Power Sources</i> , 2022, 521, 230950.	4.0	15
43	Fe ₃ O ₄ @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
44	Effect of TiO ₂ morphology on the benzyl alcohol oxidation activity of Fe ₂ O ₃ @TiO ₂ nanomaterials. <i>RSC Advances</i> , 2016, 6, 71076-71091.	1.7	13
45	Yttrium Oxide Supported La ₂ O ₃ Nanomaterials for Catalytic Oxidative Cracking of n-Propane to Olefins. <i>Catalysis Letters</i> , 2020, 150, 185-195.	1.4	13
46	Synthesis, characterization, and catalytic activity of nitridated magnesium silicate catalysts. <i>Journal of Materials Science</i> , 2013, 48, 4274-4283.	1.7	12
47	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
48	Effect of preparation conditions on structural and catalytic properties of lithium zirconate. <i>Ceramics International</i> , 2016, 42, 1318-1331.	2.3	12
49	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
50	Y ₂ O ₃ modified Au-La ₂ O ₃ nanorod catalysts for oxidative cracking of n-propane. <i>Fuel</i> , 2020, 280, 118599.	3.4	12
51	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
52	Low Temperature Oxidation of Carbon Monoxide over Mesoporous Au-Fe ₂ O ₃ Catalysts. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-14.	1.5	11
53	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
54	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

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55	Cu, Fe and Mn oxides intercalated SiO ₂ pillared magadiite and ilerite catalysts for NO decomposition. <i>Applied Catalysis A: General</i> , 2021, 616, 118100.	2.2	10
56	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
57	New green perspective to dihydropyridines synthesis utilizing modified heteropoly acid catalysts. <i>Catalysis Today</i> , 2022, 397-399, 484-496.	2.2	9
58	Lanthanum Exchanged Keggin Structured Heteropoly Compounds for Biodiesel Production. <i>Catalysts</i> , 2019, 9, 979.	1.6	8
59	Gold supported yttrium oxide nanorods for catalytic oxidative cracking of n-propane to light olefins. <i>Fuel</i> , 2020, 278, 118375.	3.4	8
60	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-Quaternary Ammonium Structure-Directing Agent. <i>Angewandte Chemie</i> , 2021, 133, 19363-19370.	1.6	8
61	Noble metal (Pd, Pt and Rh) incorporated LaFeO ₃ perovskite oxides for catalytic oxidative cracking of n-propane. <i>Catalysis Today</i> , 2022, 397-399, 81-93.	2.2	8
62	Influence of polyoxometalate structure in ammoxidation of 2-methylpyrazine. <i>Catalysis Communications</i> , 2018, 108, 17-22.	1.6	6
63	Synthesis, characterization and photocatalytic properties of WO ₃ /hexagonal platelet graphite nanocomposites. <i>Catalysis Today</i> , 2020, 357, 655-663.	2.2	4
64	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
65	Design, Spectroscopic Characterization, Electrical Conductivity and Molecular Modelling Studies of Biologically Puissant 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
66	MoO _x and WO _x conjugated iron phosphate nanotubes catalysts for benzylolation of benzene using benzyl alcohol. <i>Catalysis Communications</i> , 2022, 164, 106423.	1.6	3
67	Ag/Ce _{0.5} Zr _{0.5} O ₂ nanofibers: Visible light photocatalysts for degradation of p-nitrophenol. <i>Molecular Catalysis</i> , 2022, 524, 112309.	1.0	3
68	Antimony Substituted Ammonium 12-Molybdophosphoric Acid Catalysts for Gas Phase Chlorobenzene Oxidation. <i>Catalysis Letters</i> , 2021, 151, 1025-1037.	1.4	2
69	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
70	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
71	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
72	Titelbild: Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite (<i>Angew. Chem.</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	0

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73	Influence of synthesis route on physico-chemical and catalytic properties of nanosized K-LTL zeolites. Molecular Catalysis, 2019, 475, 110458.	1.0	0