

Santhosh Kumar Matam

List of Publications by Year in descending order

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46
papers

1,169
citations

394421

19
h-index

395702

33
g-index

46
all docs

46
docs citations

46
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
19	Gasâ€“Solid Reaction of Carbon Dioxide with Alanates. Journal of Physical Chemistry C, 2014, 118, 15940-15945.	3.1	21
20	Methanol loading dependent methoxylation in zeolite H-ZSM-5. Chemical Science, 2020, 11, 6805-6814.	7.4	21
21	Methyltrimethoxysilane (MTMS)-based silicaâ€“iron oxide superhydrophobic nanocomposites. Journal of Colloid and Interface Science, 2015, 459, 123-126.	9.4	19
22	Monolithic nitrogen-doped carbon as a water sorbent for high-performance adsorption cooling. RSC Advances, 2016, 6, 25267-25278.	3.6	18
23	Time resolved operando spectroscopic study of the origin of phosphorus induced chemical aging of model three-way catalysts Pd/Al ₂ O ₃ . Catalysis Today, 2013, 205, 3-9.	4.4	17
24	Investigation of ZSM-5 catalysts for dimethylether conversion using inelastic neutron scattering. Applied Catalysis A: General, 2019, 569, 1-7.	4.3	17
25	Improved photoluminescence and afterglow of CaTiO ₃ :Pr ³⁺ by ammonia treatment. Optical Materials Express, 2013, 3, 248.	3.0	15
26	The Origin of the Catalytic Activity of a Metal Hydride in CO ₂ Reduction. Angewandte Chemie, 2016, 128, 6132-6136.	2.0	15
27	Methanol Steam Reforming on Perovskite-Type Oxides LaCo _{1-x} Y _x Pd _x Zn _{1-y} O _{3-δ} : Effect of Pd/Zn on CO ₂ Selectivity. Topics in Catalysis, 2015, 58, 905-909.	2.8	14
28	Water sorption behavior of physically and chemically activated monolithic nitrogen doped carbon for adsorption cooling. RSC Advances, 2016, 6, 80729-80738.	3.6	14
29	New Synthesis of ZSM-5 from High-Silica Kaolinite and Its Use in Vapor-Phase Conversion of 1-Phenylethanol to Styrene. Industrial & Engineering Chemistry Research, 2015, 54, 3754-3760.	3.7	13
30	The effect of activation time on water sorption behavior of nitrogen-doped, physically activated, monolithic carbon for adsorption cooling. Microporous and Mesoporous Materials, 2019, 276, 239-250.	4.4	11
31	Composition dependent self-regenerative property of perovskite-type oxides. Physica Status Solidi - Rapid Research Letters, 2015, 9, 282-287.	2.4	10
32	Effects of crystal size on methanol to hydrocarbon conversion over single crystals of ZSM-5 studied by synchrotron infrared microspectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 18849-18859.	2.8	10
33	Facile synthesis of resorcinol-melamine-formaldehyde based carbon xerogel. Materials Today: Proceedings, 2018, 5, 13776-13784.	1.8	9
34	Methanol dynamics in H-ZSM-5 with Si/Al ratio of 25: a quasi-elastic neutron scattering (QENS) study. Topics in Catalysis, 2021, 64, 699-706.	2.8	9
35	Methanol steam reforming on LaCo _{1-x} Pd _x Zn _{1-y} O _{3-δ} . Catalysis Today, 2015, 258, 256-261.	4.4	8
36	Perovskite-supported Palladium for Methane Oxidation â€“ Structureâ€“Activity Relationships. Chimia, 2012, 66, 675-680.	0.6	7

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37	Lab Scale Fixed-Bed Reactor for Operando X-Ray Absorption Spectroscopy for Structure Activity Studies of Supported Metal Oxide Catalysts. Topics in Catalysis, 2011, 54, 1213-1218.	2.8	6
38	Chromium-induced deactivation of a commercial honeycomb noble metal-based CO oxidation catalyst. Applied Catalysis A: General, 2014, 469, 259-266.	4.3	6
39	Silicon microfabricated reactor for <i>operando</i> XAS/DRIFTS studies of heterogeneous catalytic reactions. Catalysis Science and Technology, 2020, 10, 7842-7856.	4.1	6
40	Investigation of MoO _x /Al ₂ O ₃ under Cyclic Operation for Oxidative and Non-Oxidative Dehydrogenation of Propane. Catalysts, 2020, 10, 1370.	3.5	5
41	Carbene-like reactivity of methoxy groups in a single crystal SAPO-34 MTO catalyst. Catalysis Science and Technology, 2022, 12, 2289-2305.	4.1	4
42	A Workflow Demonstrator for Processing Catalysis Research Data. Data Intelligence, 2022, 4, 455-470.	1.5	4
43	In situ synthesis by salt-surface interaction and the catalytic functionality of the ammonium salt of 12-tungstophosphoric acid. Green Chemistry, 2002, 4, 344-346.	9.0	3
44	Electron energy loss spectroscopy analysis of the interaction of Cr and V with MWCNTs. Micron, 2016, 84, 37-42.	2.2	3
45	Local and nanoscale methanol mobility in different H-FER catalysts. Catalysis Science and Technology, 2022, 12, 1663-1677.	4.1	2
46	Observations on the Aging Environment Dependent NO Oxidation Activity of Model Pt/Al ₂ O ₃ Diesel Oxidation Catalyst. Topics in Catalysis, 2013, 56, 329-332.	2.8	1