

Tushar V Choudhary

List of Publications by Year in descending order

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44
papers

4,581
citations

201674
27
h-index

243625
44
g-index

44
all docs

44
docs citations

44
times ranked

4963
citing authors

#	ARTICLE	IF	CITATIONS
1	A Glimpse into the Molecular Journey inside an Ultralow Sulfur Diesel Reactor. ChemCatChem, 2014, 6, 1782-1787.	3.7	2
2	Renewable fuels via catalytic hydrodeoxygenation. Applied Catalysis A: General, 2011, 397, 1-12.	4.3	370
3	Inhibition of the Hydrogenation and Hydrodesulfurization Reactions by Nitrogen Compounds over NiMo/Al ₂ O ₃ . Catalysis Letters, 2008, 123, 181-185.	2.6	50
4	Energy-efficient Syngas Production through Catalytic Oxy-methane Reforming Reactions. Angewandte Chemie - International Edition, 2008, 47, 1828-1847.	13.8	316
5	Characterization of heavy petroleum feedstocks. Fuel Processing Technology, 2008, 89, 697-703.	7.2	13
6	Understanding the hydrodenitrogenation chemistry of heavy oils. Catalysis Communications, 2008, 9, 1853-1857.	3.3	20
7	Simultaneous Hydrogenation of Multiring Aromatic Compounds over NiMo Catalyst. Industrial & Engineering Chemistry Research, 2008, 47, 7161-7166.	3.7	53
8	Unraveling Heavy Oil Desulfurization Chemistry: Targeting Clean Fuels. Environmental Science & Technology, 2008, 42, 1944-1947.	10.0	58
9	Structure-reactivity-mechanistic Considerations in Heavy Oil Desulfurization. Industrial & Engineering Chemistry Research, 2007, 46, 8363-8370.	3.7	45
10	Oxy-methane reforming over high temperature stable NiCoMgCeO and NiCoMgO supported on zirconia-hafnia catalysts: Accelerated sulfur deactivation and regeneration. Catalysis Communications, 2007, 8, 561-564.	3.3	26
11	Influence of nature/concentration of halide promoters and oxidation state on the direct oxidation of H ₂ to H ₂ O ₂ over Pd/ZrO ₂ catalysts in aqueous acidic medium. Catalysis Communications, 2007, 8, 1310-1316.	3.3	27
12	Influence of Si/Ga and Si/Al ratios on propane aromatization over highly active H-GaAlMFI. Catalysis Communications, 2006, 7, 166-169.	3.3	39
13	Propane Conversion to Aromatics on Highly Active H-GaAlMFI: Effect of Thermal Pretreatment. Energy & Fuels, 2006, 20, 919-922.	5.1	13
14	Oxy-CO ₂ Reforming of Methane to Syngas over CoOx/CeO ₂ /SA-5205 Catalyst. Energy & Fuels, 2006, 20, 1753-1756.	5.1	23
15	CO ₂ Reforming of Methane to Syngas over CoOx/MgO Supported on Low Surface Area Macroporous Catalyst Carrier: Influence of Co Loading and Process Conditions. Industrial & Engineering Chemistry Research, 2006, 45, 4597-4602.	3.7	18
16	Partial oxidation of methane to syngas with or without simultaneous steam or CO ₂ reforming over a high-temperature stable-NiCoMgCeOx supported on zirconia-hafnia catalyst. Applied Catalysis A: General, 2006, 306, 45-50.	4.3	49
17	Direct oxidation of H ₂ to H ₂ O ₂ over Pd-based catalysts: Influence of oxidation state, support and metal additives. Applied Catalysis A: General, 2006, 308, 128-133.	4.3	116
18	Influence of space velocity on product selectivity and distribution of aromatics in propane aromatization over H-GaAlMFI zeolite. Journal of Molecular Catalysis A, 2006, 246, 79-84.	4.8	12

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19	Factors influencing decomposition of H ₂ O ₂ over supported Pd catalyst in aqueous medium. Journal of Molecular Catalysis A, 2006, 260, 115-120.	4.8	75
20	Oxy-CO ₂ reforming of methane to syngas over CoOx/MgO/SA-5205 catalyst. Fuel, 2006, 85, 2484-2488.	6.4	24
21	Towards Clean Fuels: Molecular-Level Sulfur Reactivity in Heavy Oils. Angewandte Chemie - International Edition, 2006, 45, 3299-3303.	13.8	67
22	Influence of hydrothermal pretreatment on acidity and activity of H-GaAlMFI zeolite for the propane aromatization reaction. Microporous and Mesoporous Materials, 2005, 87, 23-32.	4.4	11
23	Catalytically active gold: The role of cluster morphology. Applied Catalysis A: General, 2005, 291, 32-36.	4.3	102
24	Influence of PdO content and pathway of its formation on methane combustion activity. Catalysis Communications, 2005, 6, 97-100.	3.3	19
25	Effect of temperature on the product selectivity and aromatics distribution in aromatization of propane over H-GaAlMFI zeolite. Microporous and Mesoporous Materials, 2004, 70, 37-42.	4.4	17
26	Acetylene Hydrogenation on Au-Based Catalysts. Catalysis Letters, 2003, 86, 1-8.	2.6	179
27	Nonoxidative Activation of Methane. Catalysis Reviews - Science and Engineering, 2003, 45, 151-203.	12.9	266
28	Decomposition of NH ₃ on Ir(100): A Temperature Programmed Desorption Study. Journal of Physical Chemistry B, 2002, 106, 340-344.	2.6	52
29	Characterization of C ₂ (C _x H _y) Intermediates from Adsorption and Decomposition of Methane on Supported Metal Catalysts by in situ INS Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2002, 41, 144-146.	13.8	23
30	CO-free fuel processing for fuel cell applications. Catalysis Today, 2002, 77, 65-78.	4.4	284
31	Catalysts for combustion of methane and lower alkanes. Applied Catalysis A: General, 2002, 234, 1-23.	4.3	599
32	CO Oxidation on Supported Nano-Au Catalysts Synthesized from a [Au ₆ (PPh ₃) ₆](BF ₄) ₂ Complex. Journal of Catalysis, 2002, 207, 247-255.	6.2	106
33	Methane Activation on Ruthenium: The Nature of the Surface Intermediates. Topics in Catalysis, 2002, 20, 35-42.	2.8	20
34	Oxidation Catalysis by Supported Gold Nano-Clusters. Topics in Catalysis, 2002, 21, 25-34.	2.8	285
35	Hydrogen Production via Catalytic Decomposition of Methane. Journal of Catalysis, 2001, 199, 9-18.	6.2	219
36	Ammonia Decomposition on Ir(100): From Ultrahigh Vacuum to Elevated Pressures. Catalysis Letters, 2001, 77, 1-5.	2.6	35

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37	Catalytic ammonia decomposition: CO _x -free hydrogen production for fuel cell applications. Catalysis Letters, 2001, 72, 197-201.	2.6	387
38	Methane activation on Ni and Ru model catalysts. Journal of Molecular Catalysis A, 2000, 163, 9-18.	4.8	80
39	CO-free production of hydrogen via stepwise steam reforming of methane. Journal of Catalysis, 2000, 192, 316-321.	6.2	98
40	Low-Temperature Nonoxidative Activation of Methane over H-Galloaluminosilicate (MFI) Zeolite. Science, 1997, 275, 1286-1288.	12.6	223
41	Single-Component Sorption/Diffusion of Cyclic Compounds from Their Bulk Liquid Phase in H-ZSM-5 Zeolite. Industrial & Engineering Chemistry Research, 1997, 36, 1812-1818.	3.7	68
42	Direct aromatization of natural gas over H-gallosilicate (MFI), H-galloaluminosilicate (MFI) and GaH-ZSM-5 zeolites. Applied Catalysis A: General, 1997, 162, 239-248.	4.3	51
43	Effective Low-Temperature Aromatization of Ethane over H-Galloaluminosilicate(MFI) Zeolites in the Presence of Higher Alkanes or Olefins. Angewandte Chemie International Edition in English, 1997, 36, 1305-1308.	4.4	27
44	Entrance of straight and branched chain compounds from their bulk liquid phase into H-ZSM-5 zeolite. Chemical Engineering Science, 1997, 52, 3543-3552.	3.8	14