

Nikolay A Kosinov

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,480
citations

172457

29
h-index

149698

56
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65
all docs

65
docs citations

65
times ranked

3314
citing authors

#	ARTICLE	IF	CITATIONS
1	A scanning pulse reaction technique for transient analysis of the methanol-to-hydrocarbons reaction. <i>Catalysis Today</i> , 2023, 417, 113740.	4.4	4
2	Understanding the Preparation and Reactivity of Mo/ZSM-5 Methane Dehydroaromatization Catalysts. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	13
3	Alkali catalyzes methanethiol synthesis from CO and H ₂ S. <i>Journal of Catalysis</i> , 2022, 405, 116-128.	6.2	8
4	Synthesis of Nanocrystalline Mordenite Zeolite with Improved Performance in Benzene Alkylation and n-Paraffins Hydroconversion. <i>ChemCatChem</i> , 2022, 14, .	3.7	6
5	Protection Strategies for the Conversion of Biobased Furanics to Chemical Building Blocks. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3116-3130.	6.7	13
6	Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO ₂ Catalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	16
7	Amorphous Silica-Alumina as Suitable Catalyst for the Diels-Alder Cycloaddition of 2,5-Dimethylfuran and Ethylene to Biobased Xylene. <i>ChemCatChem</i> , 2022, 14, .	3.7	3
8	Facile synthesis of nanosized mordenite and beta zeolites with improved catalytic performance: non-surfactant diquatery ammonium compounds as structure-directing agents. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3200-3216.	6.0	11
9	Titelbild: Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO ₂ Catalysts (<i>Angew. Chem.</i> 23/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
10	Different mechanisms of ethane aromatization over Mo/ZSM-5 and Ga/ZSM-5 catalysts. <i>Catalysis Today</i> , 2021, 369, 184-192.	4.4	43
11	Metal-support interfaces in ceria-based catalysts. , 2021, , .		0
12	Selective methanethiol-to-olefins conversion over HSSZ-13 zeolite. <i>Chemical Communications</i> , 2021, 57, 3323-3326.	4.1	8
13	Heterogeneous catalysts for the non-oxidative conversion of methane to aromatics and olefins. , 2021, , .		4
14	Mechanistic study of catalytic CO ₂ hydrogenation in a plasma by operando DRIFT spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 264004.	2.8	13
15	Flame Synthesis of Cu/ZnO-CeO ₂ Catalysts: Synergistic Metal-Support Interactions Promote CH ₃ OH Selectivity in CO ₂ Hydrogenation. <i>ACS Catalysis</i> , 2021, 11, 4880-4892.	11.2	73
16	Interface dynamics of Pd-CeO ₂ single-atom catalysts during CO oxidation. <i>Nature Catalysis</i> , 2021, 4, 469-478.	34.4	244
17	Ni-In Synergy in CO ₂ Hydrogenation to Methanol. <i>ACS Catalysis</i> , 2021, 11, 11371-11384.	11.2	79
18	Hierarchically porous FER zeolite obtained via FAU transformation for fatty acid isomerization. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118356.	20.2	22

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19	Investigation of the Active Phase in K-Promoted MoS ₂ Catalysts for Methanethiol Synthesis. ACS Catalysis, 2020, 10, 1838-1846.	11.2	25
20	Mechanism and Nature of Active Sites for Methanol Synthesis from CO/CO ₂ on Cu/CeO ₂ . ACS Catalysis, 2020, 10, 11532-11544.	11.2	92
21	Tuning the reactivity of molybdenum (oxy)carbide catalysts by the carburization degree: CO ₂ reduction and anisole hydrodeoxygenation. Catalysis Science and Technology, 2020, 10, 3635-3645.	4.1	27
22	Boosting CO ₂ hydrogenation via size-dependent metal-support interactions in cobalt/ceria-based catalysts. Nature Catalysis, 2020, 3, 526-533.	34.4	286
23	Hydrogenation of levulinic acid to Î ³ -valerolactone over Fe-Re/TiO ₂ catalysts. Applied Catalysis B: Environmental, 2020, 278, 119314.	20.2	57
24	Reactivity, Selectivity, and Stability of Zeolite-Based Catalysts for Methane Dehydroaromatization. Advanced Materials, 2020, 32, e2002565.	21.0	86
25	Aromatization of ethylene over zeolite-based catalysts. Catalysis Science and Technology, 2020, 10, 2774-2785.	4.1	70
26	Co-Aromatization of Furan and Methanol over ZSM-5: A Pathway to Bio-Aromatics. ACS Catalysis, 2019, 9, 8547-8554.	11.2	29
27	Mordenite Nanorods Prepared by an Inexpensive Pyrrolidine-Based Mesoporegen for Alkane Hydroisomerization. ChemCatChem, 2019, 11, 2754-2754.	3.7	0
28	Hierarchically Porous (Alumino)Silicates Prepared by an Imidazole-Based Surfactant and Their Application in Acid-Catalyzed Reactions. ACS Applied Materials & Interfaces, 2019, 11, 40151-40162.	8.0	8
29	A site-sensitive quasi-in situ strategy to characterize Mo/HZSM-5 during activation. Journal of Catalysis, 2019, 370, 321-331.	6.2	40
30	Mild dealumination of template-stabilized zeolites by NH ₄ F. Catalysis Science and Technology, 2019, 9, 4239-4247.	4.1	16
31	Reversible Nature of Coke Formation on Mo/ZSM-5 Methane Dehydroaromatization Catalysts. Angewandte Chemie - International Edition, 2019, 58, 7068-7072.	13.8	65
32	Mordenite Nanorods Prepared by an Inexpensive Pyrrolidine-Based Mesoporegen for Alkane Hydroisomerization. ChemCatChem, 2019, 11, 2803-2811.	3.7	14
33	Reversible Nature of Coke Formation on Mo/ZSM-5 Methane Dehydroaromatization Catalysts. Angewandte Chemie, 2019, 131, 7142-7146.	2.0	4
34	A versatile mono-quaternary ammonium salt as a mesoporegen for the synthesis of hierarchical zeolites. Catalysis Science and Technology, 2019, 9, 6737-6748.	4.1	4
35	Gallium-promoted HZSM-5 zeolites as efficient catalysts for the aromatization of biomass-derived furans. Chemical Engineering Science, 2019, 198, 305-316.	3.8	68
36	Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5. Angewandte Chemie, 2018, 130, 1028-1032.	2.0	18

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37	Relevance of the Mo-precursor state in H-ZSM-5 for methane dehydroaromatization. <i>Catalysis Science and Technology</i> , 2018, 8, 916-922.	4.1	47
38	Innentitelbild: Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5 (Angew.) <i>Tj ETQq0,0,0 rgBT /Overlock 1</i>	2.0	0
39	Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1016-1020.	13.8	128
40	Temperature-programmed plasma surface reaction: An approach to determine plasma-catalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 168-177.	20.2	57
41	Catalytic conversion of furanic compounds over Ga-modified ZSM-5 zeolites as a route to biomass-derived aromatics. <i>Green Chemistry</i> , 2018, 20, 3818-3827.	9.0	42
42	Engineering of Transition Metal Catalysts Confined in Zeolites. <i>Chemistry of Materials</i> , 2018, 30, 3177-3198.	6.7	232
43	Structure and Evolution of Confined Carbon Species during Methane Dehydroaromatization over Mo/ZSM-5. <i>ACS Catalysis</i> , 2018, 8, 8459-8467.	11.2	79
44	Stable Mo/HZSM-5 methane dehydroaromatization catalysts optimized for high-temperature calcination-regeneration. <i>Journal of Catalysis</i> , 2017, 346, 125-133.	6.2	147
45	Probing the Influence of SSZ-13 Zeolite Pore Hierarchy in Methanol-to-Olefins Catalysis by Using Nanometer Accuracy by Stochastic Chemical Reactions Fluorescence Microscopy and Positron Emission Profiling. <i>ChemCatChem</i> , 2017, 9, 3470-3477.	3.7	19
46	Methane Dehydroaromatization by Mo/HZSM-5: Mono- or Bifunctional Catalysis?. <i>ACS Catalysis</i> , 2017, 7, 520-529.	11.2	155
47	Comment on "Efficient Conversion of Methane to Aromatics by Coupling Methylation Reaction". <i>ACS Catalysis</i> , 2017, 7, 4485-4487.	11.2	6
48	Establishing hierarchy: the chain of events leading to the formation of silicalite-1 nanosheets. <i>Chemical Science</i> , 2016, 7, 6506-6513.	7.4	21
49	Selective Coke Combustion by Oxygen Pulsing During Mo/ZSM-5 Catalyzed Methane Dehydroaromatization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15086-15090.	13.8	94
50	Competitive Adsorption of Substrate and Solvent in Sn-Beta Zeolite During Sugar Isomerization. <i>ChemSusChem</i> , 2016, 9, 3145-3149.	6.8	36
51	Selective Coke Combustion by Oxygen Pulsing During Mo/ZSM-5 Catalyzed Methane Dehydroaromatization. <i>Angewandte Chemie</i> , 2016, 128, 15310-15314.	2.0	18
52	Fluoride-assisted synthesis of bimodal microporous SSZ-13 zeolite. <i>Chemical Communications</i> , 2016, 52, 3227-3230.	4.1	36
53	Trimodal Porous Hierarchical SSZ-13 Zeolite with Improved Catalytic Performance in the Methanol-to-Olefins Reaction. <i>ACS Catalysis</i> , 2016, 6, 2163-2177.	11.2	116
54	Recent developments in zeolite membranes for gas separation. <i>Journal of Membrane Science</i> , 2016, 499, 65-79.	8.2	435

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55	Influence of the Si/Al ratio on the separation properties of SSZ-13 zeolite membranes. Journal of Membrane Science, 2015, 484, 140-145.	8.2	98
56	High flux high-silica SSZ-13 membrane for CO ₂ separation. Journal of Materials Chemistry A, 2014, 2, 13083-13092.	10.3	142
57	Improving separation performance of high-silica zeolite membranes by surface modification with triethoxyfluorosilane. Microporous and Mesoporous Materials, 2014, 194, 24-30.	4.4	31
58	Influence of support morphology on the detemplation and permeation of ZSM-5 and SSZ-13 zeolite membranes. Microporous and Mesoporous Materials, 2014, 197, 268-277.	4.4	41
59	Synthesis and separation properties of an γ -alumina-supported high-silica MEL membrane. Journal of Membrane Science, 2013, 447, 12-18.	8.2	24
60	Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO ₂ Catalysts. Angewandte Chemie, 0, , .	2.0	0