Stan Golunski

List of Publications by Year
in descending order

28 papers	1,020 citations	471509 17 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	1601 citing authors

#	Article	IF	Citations
1	Rationalization of Interactions in Precious Metal/Ceria Catalysts Using the dâ€Band Center Model. Angewandte Chemie - International Edition, 2013, 52, 7737-7741.	13.8	181
2	Low-temperature redox activity in co-precipitated catalysts: a comparison between gold and platinum-group metals. Catalysis Today, 2002, 72, 107-113.	4.4	91
3	Elucidating the Role of CO₂ in the Soft Oxidative Dehydrogenation of Propane over Ceria-Based Catalysts. ACS Catalysis, 2018, 8, 3454-3468.	11.2	80
4	Synergy and Anti-Synergy between Palladium and Gold in Nanoparticles Dispersed on a Reducible Support. ACS Catalysis, 2016, 6, 6623-6633.	11.2	71
5	Formation of reactive Lewis acid sites on Fe/WO 3 â€“ZrO 2 catalysts for higher temperature SCR applications. Applied Catalysis B: Environmental, 2015, 162, 174-179.	20.2	66
6	Raising the fuel heating value and recovering exhaust heat by on-board oxidative reforming of bioethanol. Energy and Environmental Science, 2010, 3, 780.	30.8	57
7	Promotion of Ceria Catalysts by Precious Metals: Changes in Nature of the Interaction under Reducing and Oxidizing Conditions. Journal of Physical Chemistry C, 2012, 116, 13569-13583.	3.1	54
8	Green preparation of transition metal oxide catalysts using supercritical CO2 anti-solvent precipitation for the total oxidation of propane. Applied Catalysis B: Environmental, 2013, 140-141, 671-679.	20.2	50
9	Using real particulate matter to evaluate combustion catalysts for direct regeneration of diesel soot filters. Applied Catalysis B: Environmental, 2015, 176-177, 436-443.	20.2	50
10	Activation and Deactivation of Gold/Ceriaâ€“Zirconia in the Lowâ€Temperature Waterâ€“Gas Shift Reaction. Angewandte Chemie - International Edition, 2017, 56, 16037-16041.	13.8	49
11	What is the point of on-board fuel reforming?. Energy and Environmental Science, 2010, 3, 1918.	30.8	41
12	Simultaneous removal of NOx and soot particulate from diesel exhaust by in-situ catalytic generation and utilisation of N2O. Applied Catalysis B: Environmental, 2018, 239, 10-15.	20.2	37
13	Lowering the Operating Temperature of Perovskite Catalysts for N₂O Decomposition through Control of Preparation Methods. ACS Catalysis, 2020, 10, 5430-5442.	11.2	31
14	Modifying catalytically the soot morphology and nanostructure in diesel exhaust: Influence of silver De-NOx catalyst (Ag/Al2O3). Applied Catalysis B: Environmental, 2019, 241, 471-482.	20.2	21
15	Dominant Effect of Support Wettability on the Reaction Pathway for Catalytic Wet Air Oxidation over Pt and Ru Nanoparticle Catalysts. ACS Catalysis, 2018, 8, 2730-2734.	11.2	19
16	Investigating the Influence of Fe Speciation on N2O Decomposition Over Feâ€“ZSM-5 Catalysts. Topics in Catalysis, 2018, 61, 1983-1992.	2.8	18
17	Structure-sensitivity of alumina supported palladium catalysts for N2O decomposition. Applied Catalysis B: Environmental, 2020, 264, 118501.	20.2	17
18	CO2 Hydrogenation to Methanol over Copper Catalysts: Learning from Syngas Conversion. Topics in Catalysis, 2021, 64, 974-983.	2.8	16

#	Article	IF	Citations
19	Multi-functionality of Ga/ZSM-5 catalysts during anaerobic and aerobic aromatisation of n-decane. Chemical Science, 2012, 3, 2958.	7.4	14
20	Enhanced Activity and Stability of Gold/Ceria-Titania for the Low-Temperature Water-Gas Shift Reaction. Frontiers in Chemistry, 2019, 7, 443.	3.6	13
21	Operando potassium K-edge X-ray absorption spectroscopy: investigating potassium catalysts during soot oxidation. Physical Chemistry Chemical Physics, 2020, 22, 18976-18988.	2.8	12
22	Oxidation of Polynuclear Aromatic Hydrocarbons using Rutheniumâ€Ionâ€Catalyzed Oxidation: The Role of Aromatic Ring Number in Reaction Kinetics and Product Distribution. Chemistry - A European Journal, 2018, 24, 655-662.	3.3	9
23	Influence of the Preparation Method of Ag-K/CeO2-ZrO2-Al2O3 Catalysts on Their Structure and Activity for the Simultaneous Removal of Soot and NOx. Catalysts, 2020, 10, 294.	3.5	9
24	Silicon microfabricated reactor for operando XAS/DRIFTS studies of heterogeneous catalytic reactions. Catalysis Science and Technology, 2020, 10, 7842-7856.	4.1	6
25	Activation and Deactivation of Gold/Ceriaâ€“Zirconia in the Lowâ€Temperature Waterâ€“Gas Shift Reaction. Angewandte Chemie, 2017, 129, 16253-16257.	2.0	5
26	Influence of Different Birnessite Interlayer Alkali Cations on Catalytic Oxidation of Soot and Light Hydrocarbons. Catalysts, 2020, 10, 507.	3.5	2
27	Structure Sensitivity and Hydration Effects in Pt/TiO2 and Pt/TiO2â€“SiO2 Catalysts for NO and Propane Oxidation. Topics in Catalysis, 2021, 64, 955-964.	2.8	1
28	The Effect of Potassium Inclusion in a Silver Catalyst for N2O-Mediated Oxidation of Soot in Oxidising Exhaust Gases. Catalysts, 2022, 12, 753.	3.5	0