Valerii V Muravev

List of Publications by Year
in descending order

18	1,357	687363 13	996975 15
papers	citations	h-index	g-index

19	19	19	1527
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO₂ Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16
2	Titelbild: Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO₂ Catalysts (Angew. Chem. 23/2022). Angewandte Chemie, 2022, 134, .	2.0	0
3	Metal-support interfaces in ceria-based catalysts. , 2021, , .		0
4	Reversible hydrogenation restores defected graphene to graphene. Science China Chemistry, 2021, 64, 1047-1056.	8.2	6
5	Improved Pd/CeO₂ Catalysts for Low-Temperature NO Reduction: Activation of CeO₂ Lattice Oxygen by Fe Doping. ACS Catalysis, 2021, 11, 5614-5627.	11.2	44
6	CO oxidation activity of Pt/CeO2 catalysts below 0 Â°C: platinum loading effects. Applied Catalysis B: Environmental, 2021, 286, 119931.	20.2	83
7	Interface dynamics of Pdâ€“CeO2 single-atom catalysts during CO oxidation. Nature Catalysis, 2021, 4, 469-478.	34.4	244
8	Stability of heterogeneous single-atom catalysts: a scaling law mapping thermodynamics to kinetics. Npj Computational Materials, 2020, 6, .	8.7	44
9	Reply to: â€œPitfalls in identifying active catalyst speciesâ€. Nature Communications, 2020, 11, 4574.	12.8	0
10	Mechanism and Nature of Active Sites for Methanol Synthesis from CO/CO₂ on Cu/CeO₂. ACS Catalysis, 2020, 10, 11532-11544.	11.2	92
11	Boosting CO2 hydrogenation via size-dependent metalâ€“support interactions in cobalt/ceria-based catalysts. Nature Catalysis, 2020, 3, 526-533.	34.4	286
12	Lattice oxygen activation in transition metal doped ceria. Chinese Journal of Catalysis, 2020, 41, 977-984.	14.0	31
13	Tuning Pt-CeO2 interactions by high-temperature vapor-phase synthesis for improved reducibility of lattice oxygen. Nature Communications, 2019, 10, 1358.	12.8	302
14	Theoretical Approach To Predict the Stability of Supported Single-Atom Catalysts. ACS Catalysis, 2019, 9, 3289-3297.	11.2	101
15	Study of active surface centers of Pt/CeO2 catalysts prepared using radio-frequency plasma sputtering technique. Surface Science, 2019, 679, 273-283.	1.9	37
16	Transformation of a Ptâ€“CeO₂ Mechanical Mixture of Pulsedâ€Laserâ€Ablated Nanoparticles to a Highly Active Catalyst for Carbon Monoxide Oxidation. ChemCatChem, 2018, 10, 2232-2247.	3.7	41
17	Platinum state in highly active Pt/CeO2 catalysts from the X-ray photoelectron spectroscopy data. Journal of Structural Chemistry, 2017, 58, 1152-1159.	1.0	29
18	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