

# Valerii V Muravev

## List of Publications by Year in descending order

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18  
papers

1,357  
citations

687363

13  
h-index

996975

15  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1527  
citing authors

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