

Zdenek Jakub

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

765
citations

623734

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984
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#	ARTICLE	IF	CITATIONS
1	CO oxidation by Pt ₂ /Fe ₃ O ₄ : Metastable dimer and support configurations facilitate lattice oxygen extraction. <i>Science Advances</i> , 2022, 8, eabn4580.	10.3	14
2	Single Rh Adatoms Stabilized on $\sqrt{3}\times\sqrt{3}$ Fe ₂ O ₃ (111̄02) by Adsorbed Water. <i>ACS Energy Letters</i> , 2022, 7, 375-380.	17.4	13
3	Remarkably stable metal-organic frameworks on an inert substrate: M-TCNQ on graphene (M = Ni, Fe). <i>J. Phys. Chem. Lett.</i> 2021, 12, 1107-1111.	10.7843	14
4	Unraveling CO adsorption on model single-atom catalysts. <i>Science</i> , 2021, 371, 375-379.	12.6	179
5	Surface Reduction State Determines Stabilization and Incorporation of Rh on $\sqrt{3}\times\sqrt{3}$ Fe ₂ O ₃ (111̄02). <i>Advanced Materials Interfaces</i> , 2021, 8, 2001908.	3.7	9
6	Single Atom Catalysts: Surface Reduction State Determines Stabilization and Incorporation of Rh on $\sqrt{3}\times\sqrt{3}$ Fe ₂ O ₃ (111̄02) (Adv. Mater. Interfaces 8/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170045.	3.7	0
7	Ni-modified Fe ₃ O ₄ (001) surface as a simple model system for understanding the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2021, 389, 138638.	5.2	16
8	Rapid oxygen exchange between hematite and water vapor. <i>Nature Communications</i> , 2021, 12, 6488.	12.8	8
9	Adsorbate-induced structural evolution changes the mechanism of CO oxidation on a Rh/Fe ₃ O ₄ (001) model catalyst. <i>Nanoscale</i> , 2020, 12, 5866-5875.	5.6	25
10	Probing structural changes upon carbon monoxide coordination to single metal adatoms. <i>Journal of Chemical Physics</i> , 2020, 152, 051102.	3.0	4
11	Local Structure and Coordination Define Adsorption in a Model Ir ₁ /Fe ₃ O ₄ Single-Atom Catalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13961-13968.	13.8	93
12	Local Structure and Coordination Define Adsorption in a Model Ir ₁ /Fe ₃ O ₄ Single-Atom Catalyst. <i>Angewandte Chemie</i> , 2019, 131, 14099-14106.	2.0	44
13	Self-limited growth of an oxyhydroxide phase at the Fe ₃ O ₄ (001) surface in liquid and ambient pressure water. <i>Journal of Chemical Physics</i> , 2019, 151, 154702.	3.0	15
14	Nickel Doping Enhances the Reactivity of Fe ₃ O ₄ (001) to Water. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15038-15045.	3.1	16
15	Water Ordering on the Magnetite Fe ₃ O ₄ Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2487-2492.	4.6	16
16	Partially Dissociated Water Dimers at the Water-Hematite Interface. <i>ACS Energy Letters</i> , 2019, 4, 390-396.	17.4	32
17	Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. <i>Nanoscale</i> , 2018, 10, 2226-2230.	5.6	21
18	Adsorption of CO on the Fe ₃ O ₄ (001) Surface. <i>Journal of Physical Chemistry B</i> , 2018, 122, 721-729.	2.6	20

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19	Atomic-Scale Structure of the Hematite α -Fe ₂ O ₃ (111̄..02) α -Cut Surface. Journal of Physical Chemistry C, 2018, 122, 1657-1669.	3.1	89
20	Water agglomerates on Fe ₃ O ₄ (001). Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5642-E5650.	7.1	79
21	Direct measurement of Ni incorporation into Fe ₃ O ₄ (001). Physical Chemistry Chemical Physics, 2018, 20, 16469-16476.	2.8	20
22	A multi-technique study of CO ₂ adsorption on Fe ₃ O ₄ magnetite. Journal of Chemical Physics, 2017, 146, 014701.	3.0	49