

Sara Blomberg

List of Publications by Year in descending order

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papers

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citations

567281

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docs citations

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times ranked

676
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In Situ</i> X-Ray Photoelectron Spectroscopy of Model Catalysts: At the Edge of the Gap. <i>Physical Review Letters</i> , 2013, 110, 117601.	7.8	107
2	Oxidation and reduction of Pd(100) and aerosol-deposited Pd nanoparticles. <i>Physical Review B</i> , 2011, 83, .	3.2	79
3	Evidence for the Active Phase of Heterogeneous Catalysts through In Situ Reaction Product Imaging and Multiscale Modeling. <i>ACS Catalysis</i> , 2015, 5, 4514-4518.	11.2	41
4	Spatially and temporally resolved gas distributions around heterogeneous catalysts using infrared planar laser-induced fluorescence. <i>Nature Communications</i> , 2015, 6, 7076.	12.8	41
5	Novel In Situ Techniques for Studies of Model Catalysts. <i>Accounts of Chemical Research</i> , 2017, 50, 2326-2333.	15.6	39
6	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. <i>ACS Catalysis</i> , 2017, 7, 110-114.	11.2	36
7	An in situ set up for the detection of CO ₂ from catalytic CO oxidation by using planar laser-induced fluorescence. <i>Review of Scientific Instruments</i> , 2012, 83, 053104.	1.3	35
8	2D and 3D imaging of the gas phase close to an operating model catalyst by planar laser induced fluorescence. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 453002.	1.8	30
9	Real-Time Gas-Phase Imaging over a Pd(110) Catalyst during CO Oxidation by Means of Planar Laser-Induced Fluorescence. <i>ACS Catalysis</i> , 2015, 5, 2028-2034.	11.2	26
10	Catalytic Oxidation of Carbon Monoxide on a Curved Pd Crystal: Spatial Variation of Active and Poisoning Phases in Stationary Conditions. <i>Journal of the American Chemical Society</i> , 2018, 140, 16245-16252.	13.7	24
11	Visualization of Gas Distribution in a Model AP-XPS Reactor by PLIF: CO Oxidation over a Pd(100) Catalyst. <i>Catalysts</i> , 2017, 7, 29.	3.5	23
12	Comparison of AP-XPS and PLIF Measurements During CO Oxidation Over Pd Single Crystals. <i>Topics in Catalysis</i> , 2016, 59, 478-486.	2.8	21
13	Simultaneous Imaging of Gas Phase over and Surface Reflectance of a Pd(100) Single Crystal during CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23511-23519.	3.1	20
14	Combining high-energy X-ray diffraction with Surface Optical Reflectance and Planar Laser Induced Fluorescence for <i>operando</i> catalyst surface characterization. <i>Review of Scientific Instruments</i> , 2019, 90, 033703.	1.3	20
15	Oxygen interaction with the Pd(112) surface: From chemisorption to bulk oxide formation. <i>Physical Review B</i> , 2012, 86, .	3.2	16
16	Bimetallic Nanoparticles as a Model System for an Industrial NiMo Catalyst. <i>Materials</i> , 2019, 12, 3727.	2.9	15
17	Surface optical reflectance combined with x-ray techniques during gas-surface interactions. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 224001.	2.8	15
18	The Structure of the Active Pd State During Catalytic Carbon Monoxide Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4461-4465.	4.6	15

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19	Bridging the Pressure Gap in CO Oxidation. ACS Catalysis, 2021, 11, 9128-9135.	11.2	14
20	Catalytic Oxidation of CO on a Curved Pt(111) Surface: Simultaneous Ignition at All Facets through a Transient CO \leftrightarrow O Complex**. Angewandte Chemie - International Edition, 2020, 59, 20037-20043.	13.8	13
21	CO Chemisorption on Vicinal Rh(111) Surfaces Studied with a Curved Crystal. Journal of Physical Chemistry C, 2020, 124, 9305-9313.	3.1	13
22	Combining synchrotron light with laser technology in catalysis research. Journal of Synchrotron Radiation, 2018, 25, 1389-1394.	2.4	9
23	Structural Changes in Monolayer Cobalt Oxides under Ambient Pressure CO and O ₂ Studied by In Situ Grazing-Incidence X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 3411-3418.	3.1	9
24	Ammonia Oxidation over a Pt ₂₅ Rh ₇₅ (001) Model Catalyst Surface: An Operando Study. Journal of Physical Chemistry C, 2020, 124, 22192-22199.	3.1	7
25	Effect of Pd and Ir as Promoters in the Activity of Ni/CeZrO ₂ Catalyst for the Reverse Water-Gas Shift Reaction. Catalysts, 2021, 11, 1076.	3.5	7
26	In Situ H ₂ Reduction of Al ₂ O ₃ -Supported Ni- and Mo-Based Catalysts. Catalysts, 2022, 12, 755.	3.5	7
27	Combining Planar Laser-Induced Fluorescence with Stagnation Point Flows for Small Single-Crystal Model Catalysts: CO Oxidation on a Pd(100). Catalysts, 2019, 9, 484.	3.5	5
28	Investigating Lignin-Derived Monomers and Oligomers in Low-Molecular-Weight Fractions Separated from Depolymerized Black Liquor Retentate by Membrane Filtration. Molecules, 2021, 26, 2887.	3.8	3
29	Steps and catalytic reactions: CO oxidation with preadsorbed O on Rh(553). Surface Science, 2022, 715, 121928.	1.9	2
30	Catalytic Oxidation of CO on a Curved Pt(111) Surface: Simultaneous Ignition at All Facets through a Transient CO \leftrightarrow O Complex**. Angewandte Chemie, 2020, 132, 20212-20218.	2.0	1