Irene Groot

List of Publications by Year in descending order

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30 papers	742 citations	623734 14 h-index	526287 27 g-index
32 all docs	32 docs citations	32 times ranked	1110 citing authors

#	Article	IF	Citations
1	Thermodynamic analysis of graphene CVD grown on liquid metal: Growth on liquid metallic gallium or solid gallium oxide skin?. Materials Chemistry and Physics, 2022, 275, 125203.	4.0	6
2	X-ray reflectivity from curved surfaces as illustrated by a graphene layer on molten copper. Journal of Synchrotron Radiation, 2022, 29, 711-720.	2.4	8
3	Simultaneous sulfidation of Mo and Co oxides supported on Au(111). Physical Chemistry Chemical Physics, 2021, 23, 8403-8412.	2.8	4
4	Real-Time Multiscale Monitoring and Tailoring of Graphene Growth on Liquid Copper. ACS Nano, 2021, 15, 9638-9648.	14.6	28
5	Investigation of Active Catalysts at Work. Accounts of Chemical Research, 2021, 54, 4334-4341.	15.6	3
6	Low-Temperature Synthesis Strategy for MoS2 Slabs Supported on TiO2(110). Surfaces, 2020, 3, 605-621.	2.3	4
7	Development of a reactor for the in situ monitoring of 2D materials growth on liquid metal catalysts, using synchrotron x-ray scattering, Raman spectroscopy, and optical microscopy. Review of Scientific Instruments, 2020, 91, 013907.	1.3	19
8	Structural Characterization of a Novel Two-Dimensional Material: Cobalt Sulfide Sheets on Au(111). Journal of Physical Chemistry Letters, 2020, 11, 9038-9044.	4.6	8
9	In situ observations of an active MoS2 model hydrodesulfurization catalyst. Nature Communications, 2019, 10, 2546.	12.8	47
10	The Pressure Gap for Thiols: Methanethiol Self-Assembly on Au(111) from Vacuum to 1 bar. Journal of Physical Chemistry C, 2019, 123, 12382-12389.	3.1	7
11	Transferability of the Specific Reaction Parameter Density Functional for H2 + Pt(111) to H2 + Pt(211). Journal of Physical Chemistry C, 2019, 123, 2973-2986.	3.1	18
12	Nucleation, Alloying, and Stability of Coâ€“Re Bimetallic Nanoparticles on Al2O3/NiAl(110). Journal of Physical Chemistry C, 2018, 122, 8967-8975.	3.1	3
13	Structural Dynamics of Al₂O₃/NiAl(110) During Film Growth in NO₂. Journal of Physical Chemistry B, 2018, 122, 788-793.	2.6	5
14	Roadmap for Modeling RhPt/Pt(111) Catalytic Surfaces. Journal of Physical Chemistry C, 2018, 122, 26430-26437.	3.1	4
15	Fast and reliable pre-approach for scanning probe microscopes based on tip-sample capacitance. Ultramicroscopy, 2017, 181, 61-69.	1.9	13
16	From dull to shiny: A novel setup for reflectance difference analysis under catalytic conditions. Review of Scientific Instruments, 2017, 88, 023704.	1.3	15
17	In Situ Optical Reflectance Difference Observations of CO Oxidation over Pd(100). Journal of Physical Chemistry C, 2017, 121, 11407-11415.	3.1	21
18	Surface science under reaction conditions: CO oxidation on Pt and Pd model catalysts. Chemical Society Reviews, 2017, 46, 4347-4374.	38.1	202

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19	In situ studies of NO reduction by H₂ over Pt using surface X-ray diffraction and transmission electron microscopy. Physical Chemistry Chemical Physics, 2017, 19, 8485-8495.	2.8	16
20	Observing the oxidation of platinum. Nature Communications, 2017, 8, 429.	12.8	109
21	Simultaneous scanning tunneling microscopy and synchrotron X-ray measurements in a gas environment. Ultramicroscopy, 2017, 182, 233-242.	1.9	8
22	Seeing dynamic phenomena with live scanning tunneling microscopy. MRS Bulletin, 2017, 42, 834-841.	3.5	5
23	Combined scanning probe microscopy and x-ray scattering instrument for in situ catalysis investigations. Review of Scientific Instruments, 2016, 87, 113705.	1.3	12
24	Tuning the Properties of Molybdenum Oxide on Al₂O₃/NiAl(110): Metal versus Oxide Deposition. Journal of Physical Chemistry C, 2016, 120, 19737-19743.	3.1	7
25	Separating Catalytic Activity at Edges and Terraces on Platinum: Hydrogen Dissociation. Journal of Physical Chemistry C, 2013, 117, 9266-9274.	3.1	33
26	The Energy Dependence of the Ratio of Step and Terrace Reactivity for H₂ Dissociation on Stepped Platinum. Angewandte Chemie - International Edition, 2011, 50, 5174-5177.	13.8	33
27	A theoretical study of H2 dissociation on (3Ã—3)R30Â°CO/Ru(0001). Journal of Chemical Physics, 2010, 132, 144704.	3.0	4
28	Dynamics of dissociative adsorption of hydrogen on a CO-precovered Ru(0001) surface: a comparison of theoretical and experimental results. Physical Chemistry Chemical Physics, 2010, 12, 1331-1340.	2.8	17
29	Dynamics of hydrogen dissociation on stepped platinum. Journal of Chemical Physics, 2008, 129, 224707.	3.0	31
30	Supersonic molecular beam studies of dissociative adsorption of H2 on Ru(0001). Journal of Chemical Physics, 2007, 127, 244701.	3.0	47