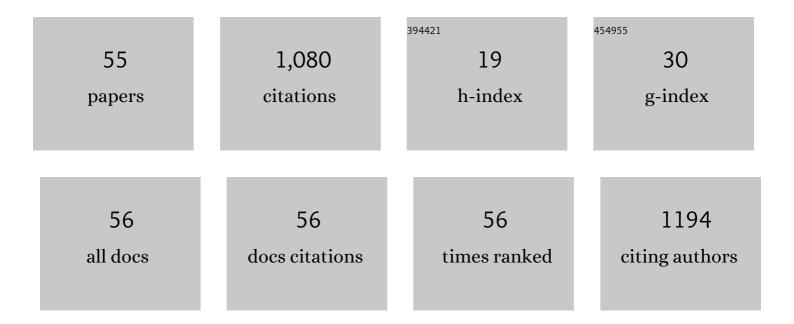
Assocâ€prof Ludo B F Juurlink

List of Publications by Year in descending order

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Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | An Inexpensive 3D Printed Periscope-Type Smartphone-Based Spectrophotometer for Emission, Absorption, and Fluorescence Spectrometry. Journal of Chemical Education, 2022, 99, 2168-2174. | 2.3 | 9 |
| 2 | Macroscopic and Microscopic Wettability of Graphene. Langmuir, 2021, 37, 4049-4055. | 3.5 | 15 |
| 3 | Recent advances in the use of curved single crystal surfaces. Progress in Surface Science, 2021, 96, 100627. | 8.3 | 12 |
| 4 | Structural Inhibition of Silver Surface Oxidation. Journal of Physical Chemistry C, 2021, 125, 14702-14708. | 3.1 | 4 |
| 5 | Absolute dissociation cross sections for D2 dissociation on Pt steps. Chemical Physics Letters, 2021, 776, 138679. | 2.6 | 5 |
| 6 | Two Design Principles for the Design of Demonstrations to Enhance Structure–Property Reasoning. Education Sciences, 2021, 11, 504. | 2.6 | 2 |
| 7 | Oxygen-induced surface reconstructions on curved Ag(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, . | 2.1 | 6 |
| 8 | IR spectroscopic characterization of the co-adsorption of CO ₂ and H ₂ onto cationic Cu _{<i>n</i>} ⁺ clusters. Physical Chemistry Chemical Physics, 2021, 23, 26661-26673. | 2.8 | 8 |
| 9 | Chiral Surface Characterisation and Reactivity Toward H–D Exchange of a Curved Platinum Crystal. Topics in Catalysis, 2020, 63, 1558-1568. | 2.8 | 3 |
| 10 | Scaling Platinum atalyzed Hydrogen Dissociation on Corrugated Surfaces. Angewandte Chemie, 2020, 132, 21159-21165. | 2.0 | 1 |
| 11 | Scaling Platinum atalyzed Hydrogen Dissociation on Corrugated Surfaces. Angewandte Chemie - International Edition, 2020, 59, 20973-20979. | 13.8 | 11 |
| 12 | Elucidation of temperature-programmed desorption of high-coverage hydrogen on Pt(211), Pt(221), Pt(533) and Pt(553) based on density functional theory calculations. Physical Chemistry Chemical Physics, 2019, 21, 17142-17151. | 2.8 | 10 |
| 13 | Heterogeneous Catalytic Oxidation of Ammonia by Various Transition Metals. Journal of Chemical Education, 2019, 96, 2266-2270. | 2.3 | 5 |
| 14 | It's not just the defects – a curved crystal study of H ₂ O desorption from Ag. Physical Chemistry Chemical Physics, 2019, 21, 15422-15430. | 2.8 | 7 |
| 15 | Steps on Pt stereodynamically filter sticking of O ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13862-13866. | 7.1 | 21 |
| 16 | Site-specific reactivity of molecules with surface defects—the case of H ₂ dissociation on Pt. Science, 2019, 363, 155-157. | 12.6 | 72 |
| 17 | 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 |
| 18 | Anomalous Dependence of the Reactivity on the Presence of Steps: Dissociation of D ₂ on Cu(211). Journal of Physical Chemistry Letters, 2018, 9, 170-175. | 4.6 | 27 |

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| 19 | Stepped surfaces. Journal of Physics Condensed Matter, 2018, 30, 090301. | 1.8 | 3 |
| 20 | A molecular beam study of D2 dissociation on Pt(1 1 1): Testing SRP-DFT calculations. Chemical Physics Letters, 2018, 706, 680-683. | 2.6 | 11 |
| 21 | Hydrogen adsorption and desorption from Cu(111) and Cu(211). Physical Chemistry Chemical Physics, 2018, 20, 22477-22488. | 2.8 | 26 |
| 22 | Heterogeneous Catalytic Oxidation of Simple Alcohols by Transition Metals. Journal of Chemical Education, 2017, 94, 1285-1287. | 2.3 | 10 |
| 23 | Step-type and step-density influences on CO adsorption probed by reflection absorption infrared spectroscopy using a curved Pt(1 1 1) surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, . | 2.1 | 16 |
| 24 | Exposure of Pt(5 5 3) and Rh(1 1 1) to atomic and molecular oxygen: do defects enhance subst oxygen formation?. Journal of Physics Condensed Matter, 2017, 29, 164002. | urfaçe 1.8 | 9 |
| 25 | Misconceptions in the Exploding Flask Demonstration Resolved through Students' Critical Thinking. Journal of Chemical Education, 2017, 94, 1209-1216. | 2.3 | 4 |
| 26 | Hydrophilic Interaction Between Low-Coordinated Au and Water: H ₂ O/Au(310) Studied with TPD and XPS. Journal of Physical Chemistry C, 2016, 120, 8693-8703. | 3.1 | 23 |
| 27 | Surface Structure Dependence in Desorption and Crystallization of Thin Interfacial Water Films on Platinum. Journal of Physical Chemistry Letters, 2016, 7, 1682-1685. | 4.6 | 13 |
| 28 | Step-Type Selective Oxidation of Platinum Surfaces. Journal of Physical Chemistry C, 2016, 120, 22927-22935. | 3.1 | 17 |
| 29 | A Comparison of CO Oxidation by Hydroxyl and Atomic Oxygen from Water on Low-Coordinated Au Atoms. ACS Catalysis, 2016, 6, 7051-7058. | 11.2 | 8 |
| 30 | Double-Stranded Water on Stepped Platinum Surfaces. Physical Review Letters, 2016, 116, 136101. | 7.8 | 45 |
| 31 | Coverage-dependent adsorption and desorption of oxygen on Pd(100). Journal of Chemical Physics, 2016, 144, 244706. | 3.0 | 8 |
| 32 | Initial stages of water solvation of stepped platinum surfaces. Physical Chemistry Chemical Physics, 2016, 18, 3416-3422. | 2.8 | 32 |
| 33 | The molecular dynamics of adsorption and dissociation of O2 on Pt(553). Journal of Chemical Physics, 2015, 143, 014703. | 3.0 | 21 |
| 34 | Long-range influence of steps on water adsorption on clean and D-covered Pt surfaces. Physical Chemistry Chemical Physics, 2015, 17, 8530-8537. | 2.8 | 27 |
| 35 | Reaction dynamics of initial O2 sticking on Pd(100). Journal of Chemical Physics, 2015, 142, 214708. | 3.0 | 12 |
| 36 | Desorption of Water from Distinct Step Types on a Curved Silver Crystal. Molecules, 2014, 19, 10845-10862. | 3.8 | 19 |

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| 37 | Density functional theory study of adsorption of H2O, H, O, and OH on stepped platinum surfaces. Journal of Chemical Physics, 2014, 140, 134708. | 3.0 | 83 |
| 38 | Hydrogen adsorption and desorption at the Pt(110)-(1×2) surface: experimental and theoretical study. Physical Chemistry Chemical Physics, 2013, 15, 6323. | 2.8 | 67 |
| 39 | Hydrogen Dissociation on Stepped Pt Surfaces. Springer Series in Surface Sciences, 2013, , 101-129. | 0.3 | 6 |
| 40 | Evidence of stable high-temperature Dx-CO intermediates on the Ru(0001) surface. Journal of Chemical Physics, 2012, 136, 114710. | 3.0 | 4 |
| 41 | Interaction between H2O and Preadsorbed D on the Stepped Pt(553) Surface. Journal of Physical Chemistry C, 2012, 116, 18706-18712. | 3.1 | 20 |
| 42 | Employing a cylindrical single crystal in gas-surface dynamics. Journal of Chemical Physics, 2012, 136, 114201. | 3.0 | 15 |
| 43 | Subsurface Oxygen on Pt(111) and Its Reactivity for CO Oxidation. Catalysis Letters, 2012, 142, 1-6. | 2.6 | 38 |
| 44 | A detailed TPD study of H2O and pre-adsorbed O on the stepped Pt(553) surface. Physical Chemistry Chemical Physics, 2011, 13, 1629-1638. | 2.8 | 25 |
| 45 | Tuning Hydrophobicity of Platinum by Small Changes in Surface Morphology. Physical Review Letters, 2011, 107, 146103. | 7.8 | 14 |
| 46 | The Energy Dependence of the Ratio of Step and Terrace Reactivity for H ₂ Dissociation on Stepped Platinum. Angewandte Chemie - International Edition, 2011, 50, 5174-5177. | 13.8 | 33 |
| 47 | CO and H2O adsorption and reaction on Au(310). Surface Science, 2011, 605, 1726-1731. | 1.9 | 11 |
| 48 | Coâ€adsorption of O and H ₂ O on Nanostructured Platinum Surfaces: Does OH Form at Steps?. Angewandte Chemie - International Edition, 2010, 49, 6572-6575. | 13.8 | 50 |
| 49 | The influence of step geometry on the desorption characteristics of O2, D2, and H2O from stepped Pt surfaces. Journal of Chemical Physics, 2010, 132, 174705. | 3.0 | 59 |
| 50 | The Interaction between H ₂ O and Preadsorbed O on the Stepped Pt(533) Surface. Journal of Physical Chemistry C, 2010, 114, 18953-18960. | 3.1 | 17 |
| 51 | Identification of Hydroxyl on Ni(111). ChemPhysChem, 2009, 10, 270-275. | 2.1 | 13 |
| 52 | CO Blocking of D ₂ Dissociative Adsorption on Ru(0001). ChemPhysChem, 2008, 9, 2372-2378. | 2.1 | 21 |
| 53 | The interaction of water with Ni(111) and H/Ni(111) studied by TPD and HREELS. Physical Chemistry Chemical Physics, 2008, 10, 2227. | 2.8 | 20 |
| 54 | Hydrophobic interactions between water and pre-adsorbed D on the stepped Pt(533) surface. Physical Chemistry Chemical Physics, 2008, 10, 7169. | 2.8 | 26 |

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|----|--|-----|-----------|
| 55 | Co-adsorption of water and hydrogen on Ni(111). Physical Chemistry Chemical Physics, 2008, 10, 4994. | 2.8 | 13 |