# Lucas Foppa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8618232/publications.pdf

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| 17 | 1,093 | 623734 14 | 888059 17 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 18 | 18 | 18 | 1529 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Identifying Outstanding Transition-Metal-Alloy Heterogeneous Catalysts for the Oxygen Reduction and Evolution Reactions via Subgroup Discovery. Topics in Catalysis, 2022, 65, 196-206. | 2.8 | 10 |
| 2 | Learning Design Rules for Selective Oxidation Catalysts from High-Throughput Experimentation and Artificial Intelligence. ACS Catalysis, 2022, 12, 2223-2232. | 11.2 | 22 |
| 3 | Materials genes of heterogeneous catalysis from clean experiments and artificial intelligence. MRS Bulletin, 2021, 46, 1016-1026. | 3.5 | 26 |
| 4 | Towards Experimental Handbooks in Catalysis. Topics in Catalysis, 2020, 63, 1683-1699. | 2.8 | 28 |
| 5 | Viewpoint: Atomic-Scale Design Protocols toward Energy, Electronic, Catalysis, and Sensing Applications. Inorganic Chemistry, 2019, 58, 14939-14980. | 4.0 | 23 |
| 6 | Facile Fischerâ€“Tropsch Chain Growth from CH<sub>2</sub> Monomers Enabled by the Dynamic CO Adlayer. ACS Catalysis, 2019, 9, 6571-6582. | 11.2 | 20 |
| 7 | What Can We Learn from First Principles Multi-Scale Models in Catalysis? The Role of the Ni/Alâ„Oâ„ƒ Interface in Water-Gas Shift and Dry Reforming as a Case Study. Chimia, 2019, 73, 239. | 0.6 | 3 |
| 8 | CO methanation on ruthenium flat and stepped surfaces: Key role of H-transfers and entropy revealed by ab initio molecular dynamics. Journal of Catalysis, 2019, 371, 270-275. | 6.2 | 15 |
| 9 | Electronic Structureâ€“Reactivity Relationship on Ruthenium Step-Edge Sites from Carbonyl 13C Chemical Shift Analysis. Journal of Physical Chemistry Letters, 2018, 9, 3348-3353. | 4.6 | 9 |
| 10 | Adlayer Dynamics Drives CO Activation in Ru-Catalyzed Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2018, 8, 6983-6992. | 11.2 | 29 |
| 11 | Cooperativity and Dynamics Increase the Performance of NiFe Dry Reforming Catalysts. Journal of the American Chemical Society, 2017, 139, 1937-1949. | 13.7 | 322 |
| 12 | Contrasting the Role of Ni/Al<sub>2</sub>O<sub>3</sub> Interfaces in Waterâ€“Gas Shift and Dry Reforming of Methane. Journal of the American Chemical Society, 2017, 139, 17128-17139. | 13.7 | 172 |
| 13 | Increased Back-Bonding Explains Step-Edge Reactivity and Particle Size Effect for CO Activation on Ru Nanoparticles. Journal of the American Chemical Society, 2016, 138, 16655-16668. | 13.7 | 67 |
| 14 | Intrinsic reactivity of Ni, Pd and Pt surfaces in dry reforming and competitive reactions: Insights from first principles calculations and microkinetic modeling simulations. Journal of Catalysis, 2016, 343, 196-207. | 6.2 | 156 |
| 15 | Benzene partial hydrogenation: advances and perspectives. Chemical Society Reviews, 2015, 44, 1886-1897. | 38.1 | 120 |
| 16 | Platinum nanoparticles supported on ionic liquid-modified-silica gel: hydrogenation catalysts. RSC Advances, 2014, 4, 16583-16588. | 3.6 | 21 |
| 17 | Metal Nanoparticle/Ionic Liquid/Cellulose: New Catalytically Active Membrane Materials for Hydrogenation Reactions. Biomacromolecules, 2009, 10, 1888-1893. | 5.4 | 50 |